

# Appendix A

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## **Safety Data Sheets for Priority Products Produced by the Submitter of This Abridged AA Report**



# SAFETY DATA SHEET

## Quik-Shield 100X B

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Printed: 02/08/2016

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Supersedes Revision: 08/03/2015

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Code:** QS 100X B  
**Product Name:** Quik-Shield 100X B  
**Company Name:** SWD URETHANE  
539 S. Drew St.  
Mesa, AZ 85210,  
**Web site address:** www.swdurethane.com  
**Emergency Contact:** CHEMTREC  
(800) 424-9300

### 2. HAZARDS IDENTIFICATION

**Acute Toxicity: Oral, Category 4**  
**Acute Toxicity: Skin, Category 5**  
**Skin Corrosion/Irritation, Category 3**  
**Serious Eye Damage/Eye Irritation, Category 2B**



**GHS Signal Word:** Warning

**GHS Hazard Phrases:**

H227 - Combustible liquid.  
H302 - Harmful if swallowed.  
H311 - Toxic in contact with skin.  
H313 - May be harmful in contact with skin.  
H314 - Causes severe skin burns and eye damage.  
H316 - Causes mild skin irritation.  
H318 - Causes serious eye damage.  
H320 - Causes eye irritation.  
H330 - Fatal if inhaled.  
H402 - Harmful to aquatic life.

**GHS Precaution Phrases:**

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
P260 - Do not breathe dust/fume/gas/mist/vapors/spray.  
P264 - Wash hands thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.  
P271 - Use only outdoors or in a well-ventilated area.  
P273 - Avoid release to the environment.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P284 - Wear respiratory protection .

**GHS Response Phrases:**

P301+312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
P302+352 - IF ON SKIN: Wash with plenty of soap and water.  
P303+361+353 - IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 - Immediately call a POISON CENTER or doctor/physician.  
P321 - Specific treatment see ... on this label.  
P330 - Rinse mouth.  
P332+313 - If skin irritation occurs, get medical advice/attention.



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### GHS Storage and Disposal Phrases:

P337+313 - If eye irritation persists, get medical advice/attention.  
P361 - Remove/Take off immediately all contaminated clothing.  
P363 - Wash contaminated clothing before reuse.  
P312 - Call a POISON CENTER or doctor/physician if you feel unwell.  
P403+235 - Store in cool/well-ventilated place.  
P405 - Store locked up.  
P501 - Dispose of contents/container to ...

### Potential Health Effects (Acute and Chronic):

#### Inhalation:

Causes respiratory tract irritation. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. Harmful if inhaled.

#### Skin Contact:

May be harmful if absorbed through the skin. Causes skin irritation. Causes burns. Skin Absorption: Toxic if absorbed through skin.

#### Eye Contact:

Causes eye irritation. Causes burns.

#### Ingestion:

Harmful if swallowed. Harmful if swallowed.

Small intestine. Large intestine.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Hazardous Components (Chemical Name)	Concentration
13674-84-5	2-Propanol, 1-Chloro-, phosphate (3:1)	30.0 -40.0 %
3033-62-3	Bis(2-(dimethylamino)ethyl)ether	<10.0 %

## 4. FIRST AID MEASURES

### Emergency and First Aid

#### Procedures:

##### In Case of Inhalation:

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

##### In Case of Skin Contact:

Wash off with soap and plenty of water. Consult a physician. In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.

##### In Case of Eye Contact:

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

##### In Case of Ingestion:

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician. If swallowed, wash out mouth with water provided person is conscious. Call a physician immediately. Do NOT induce vomiting.

### Signs and Symptoms Of Exposure:

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Skin rash. Damage to the liver. Asthma. Gastrointestinal disturbances. Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin. Inhalation may result in spasm, inflammation and edema of the larynx and bronchi, chemical pneumonitis, and pulmonary edema. Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting.

### Note to Physician:

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.



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### 5. FIRE FIGHTING MEASURES

**Flash Pt:****Explosive Limits:**

LEL:

UEL:

**Autoignition Pt:****Suitable Extinguishing Media:** Use water spray, dry chemical, carbon dioxide, or alcohol-resistant foam. Suitable:**Fire Fighting Instructions:** Wear self contained breathing apparatus for fire fighting if necessary. Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Specific Hazard(s):**Flammable Properties and****Hazards:****Hazardous Combustion****Products:**

### 6. ACCIDENTAL RELEASE MEASURES

**Steps To Be Taken In Case  
Material Is Released Or  
Spilled:**

Personal precautions.

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

Environmental precautions.

Do not let product enter drains.

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal. PROCEDURE TO BE FOLLOWED IN CASE OF LEAK OR SPILL. Evacuate area. PROCEDURE(S) OF PERSONAL PRECAUTION(S) Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves. Methods for cleaning up. Cover with dry lime or soda ash, pick up, keep in a closed container, and hold for waste disposal.

### 7. HANDLING AND STORAGE

**Precautions To Be Taken in  
Handling:**

Avoid inhalation of vapor or mist.

Normal measures for preventive fire protection. User Exposure: Do not get in eyes, on skin, on clothing.

**Precautions To Be Taken in  
Storing:**

Keep container tightly closed in a dry and well-ventilated place. Suitable:

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
13674-84-5	2-Propanol, 1-Chloro-, phosphate (3:1)			
3033-62-3	Bis(2-(dimethylamino)ethyl)ether		TLV: 0.05 ppm STEL: 0.15 ppm	



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<b>Respiratory Equipment (Specify Type):</b>	Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi- purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
<b>Eye Protection:</b>	Face shield and safety glasses.
<b>Protective Gloves:</b>	Handle with gloves. Eyes: Chemical safety goggles.
<b>Other Protective Clothing:</b>	Choose body protection according to the amount and concentration of the dangerous substance at the work place.
<b>Engineering Controls (Ventilation etc.):</b>	Use only in a chemical fume hood. Safety shower and eye bath.
<b>Work/Hygienic/Maintenance Practices:</b>	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. Wash contaminated clothing before reuse. Discard contaminated shoes. Wash thoroughly after handling.  EXPOSURE LIMITS, RTECS. Country Source Type Value. USA ACGIH TWA 0.05 PPM Remarks: Skin. STEL 0.15 PPM EXPOSURE LIMITS. USA TWA 0.05 ppm USA STEL 0.15 ppm

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical States:</b>	<input type="checkbox"/> Gas	<input checked="" type="checkbox"/> Liquid	<input type="checkbox"/> Solid
<b>Appearance and Odor:</b>	Off-white. Musty.		
<b>pH:</b>			
<b>Melting Point:</b>			
<b>Boiling Point:</b>			
<b>Flash Pt:</b>			
<b>Evaporation Rate:</b>			
<b>Flammability (solid, gas):</b>			
<b>Explosive Limits:</b>	LEL:		UEL:
<b>Vapor Pressure (vs. Air or mm Hg):</b>			
<b>Vapor Density (vs. Air = 1):</b>			
<b>Specific Gravity (Water = 1):</b>			
<b>Solubility in Water:</b>			



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Octanol/Water Partition  
Coefficient:  
Autoignition Pt:  
Decomposition Temperature:  
Viscosity:

### 10. STABILITY AND REACTIVITY

**Stability:** Unstable [ ] Stable [ X ]

**Conditions To Avoid -** No data available.

**Instability:**

**Incompatibility - Materials To Avoid:** Strong oxidizing agents, Mineral acids, acids (organic, sodium hypochlorite). Corrodes metal.

**Hazardous Decomposition or Byproducts:** formed under fire conditions. Carbon oxides, Phosphorous oxides, Hydrogen chloride gas, Thermal decomposition 244 °C Carbon monoxide, Carbon dioxide, Nitrogen oxides, Ammonia, Nitric acid.

**Possibility of Hazardous Reactions:** Will occur [ ] Will not occur [ X ]

**Conditions To Avoid - Hazardous Reactions:**

### 11. TOXICOLOGICAL INFORMATION

**Toxicological Information:** CAS# 13674-84-5:  
Acute toxicity, LD50, Oral, Rat, 3600. MG/KG.  
Results:  
Behavioral: Somnolence (general depressed activity).  
Behavioral: Tremor.  
Lungs, Thorax, or Respiration: Other changes.  
- National Technical Information Service, Vol/p/yr: OTS05, 7713

Acute toxicity, LD50, Intravenous, Mouse, 56.00 MG/KG.  
Results:  
Behavioral: Food intake (animal).  
Nutritional and Gross Metabolic: Weight loss or decreased weight gain.  
- U.S. Army Armament Research & Development Command, Chemical Systems Laboratory, NIOSH Exchange Chemicals., Aberdeen Proving Ground., Aberdeen Proving Ground, MD 21010, Vol/p/yr: NX#, 5768

Skin corrosion/irritation, Skin sensitization, Skin, Rabbit, 0.000 , Mild.  
Results:  
Sense Organs and Special Senses (Nose, Eye, Ear, and Taste): Eye: Lacrimation.  
Behavioral: Tremor.  
Lungs, Thorax, or Respiration: Cyanosis.

**Irritation or Corrosion:** Skin - rabbit - Mild skin irritation - 24 h.  
Serious eye damage/eye irritation:  
Eyes - rabbit - Mild eye irritation.

**Carcinogenicity/Other Information:** Carcinogenicity.  
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.  
ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.  
NTP: No component of this product present at levels greater than or equal to 0.1% is



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identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
13674-84-5	2-Propanol, 1-Chloro-, phosphate (3:1)				
3033-62-3	Bis(2-(dimethylamino)ethyl)ether				

## 12. ECOLOGICAL INFORMATION

**Persistence and** No data available.**Degradability:****Bioaccumulative Potential:** No data available.**Mobility in Soil:** No data available.

## 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Method:** Product.  
Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging.  
Dispose of as unused product. APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

## 14. TRANSPORT INFORMATION

**GHS Classification:** Acute Toxicity: Oral, Category 4 - Warning! Harmful if swallowed  
Acute Toxicity: Skin, Category 5 - Warning! May be harmful in contact with skin  
Skin Corrosion/Irritation, Category 3 - Warning! Causes mild skin irritation  
Serious Eye Damage/Eye Irritation, Category 2B - Warning! Causes eye irritation  
Aquatic Toxicity (Acute), Category 3 - Harmful to aquatic life

### LAND TRANSPORT (US DOT):

**DOT Proper Shipping Name:** Not Regulated.**DOT Hazard Class:****UN/NA Number:**

### LAND TRANSPORT (Canadian TDG):

**TDG Shipping Name:** Not Regulated.

### MARINE TRANSPORT (IMDG/IMO):

**IMDG/IMO Shipping Name:** Not Regulated.

### AIR TRANSPORT (ICAO/IATA):

**ICAO/IATA Shipping Name:** Not Regulated.

## 15. REGULATORY INFORMATION



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### 16. OTHER INFORMATION

**Revision Date:** 02/08/2016

#### **Additional Information About**

#### **This Product:**

#### **Company Policy or**

#### **Disclaimer:**

While the information and recommendations in this publication are given to the best of our knowledge, and information at the date of publication, nothing herein is to be construed as a warranty, expressed or otherwise. In all cases, it is the responsibility of the user to determine the applicability of such information, and recommendations or the suitability of any product for its own particular purpose.

The product may present hazards and should be used with caution. While certain hazards are described in this Safety Data Sheet, no guarantee is made that these are the only hazards that exist. Hazards, toxicity and behavior of the products may differ when used with other materials and are dependent upon the manufacturing circumstances or other processes. Such hazards, toxicity and behavior should be determined by the user and made known to handlers, processors and end users.

NO PERSON OR ORGANIZATION EXCEPT A DULY AUTHORIZED SWD EMPLOYEE SHALL PROVIDE, OR MAKE AVAILABLE, DATA SHEETS FOR SWD PRODUCTS. DATA SHEETS FROM UNAUTHORIZED SOURCES MAY CONTAIN INFORMATION THAT IS NO LONGER CURRENT OR ACCURATE. NO PART OF THIS DATA SHEET MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM, OR BY ANY MEANS, WITHOUT THE WRITTEN PERMISSION OF SWD. ALL REQUESTS FOR PERMISSION TO REPRODUCE MATERIAL FROM THIS DATA SHEET OR QUESTIONS REGARDING THIS DATA SHEET SHOULD BE DIRECTED TO SWD AT 800-828-1394.





# SAFETY DATA SHEET

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### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Code:** QS 106 B  
**Product Name:** Quik-Shield 106 B  
**Company Name:** SWD URETHANE  
539 S. Drew St.  
Mesa, AZ 85210,  
**Web site address:** www.swdurethane.com  
**Emergency Contact:** CHEMTREC  
(800) 424-9300

### 2. HAZARDS IDENTIFICATION

**Acute Toxicity: Oral, Category 4**  
**Acute Toxicity: Skin, Category 5**  
**Skin Corrosion/Irritation, Category 1A-1C**  
**Serious Eye Damage/Eye Irritation, Category 2B**



**GHS Signal Word:** Danger

**GHS Hazard Phrases:** H302 - Harmful if swallowed.  
H313 - May be harmful in contact with skin.  
H314 - Causes severe skin burns and eye damage.  
H320 - Causes eye irritation.  
H402 - Harmful to aquatic life.

**GHS Precaution Phrases:** P264 - Wash hands thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.  
P273 - Avoid release to the environment.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.

**GHS Response Phrases:** P301+312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
P303+361+353 - IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+313 - If eye irritation persists, get medical advice/attention.  
P363 - Wash contaminated clothing before reuse.

**GHS Storage and Disposal Phrases:** P405 - Store locked up.

**Inhalation:** Causes respiratory tract irritation. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. Harmful if inhaled. Skin: May be harmful if absorbed through skin. May cause skin irritation.

**Skin Contact:** May be harmful if absorbed through the skin. Causes skin irritation. Causes skin burns. Causes burns. Skin Absorption: Toxic if absorbed through skin.

**Eye Contact:** Causes eye irritation. Causes eye burns. Causes burns.

**Ingestion:** Harmful if swallowed. Harmful if swallowed.

Small intestine. Large intestine. Additional Information.



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RTECS: QJ6950000

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Hazardous Components (Chemical Name)	Concentration
NA	Halogenated Phosphate	40.0 -60.0 %
NA	Amine Catalyst	2.0 -10.0 %

### 4. FIRST AID MEASURES

#### Emergency and First Aid

##### Procedures:

<b>In Case of Inhalation:</b>	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
<b>In Case of Skin Contact:</b>	Wash off with soap and plenty of water. Consult a physician. Take off contaminated clothing and shoes immediately. In case of skin contact, flush with copious amounts of water for at least 15 minutes. Call a physician.
<b>In Case of Eye Contact:</b>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital. In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician. In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.
<b>In Case of Ingestion:</b>	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician. Do NOT induce vomiting. If swallowed, wash out mouth with water provided person is conscious. Call a physician immediately.
<b>Signs and Symptoms Of Exposure:</b>	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
<b>Note to Physician:</b>	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

### 5. FIRE FIGHTING MEASURES

<b>Flash Pt:</b>	> 400.00 F
<b>Explosive Limits:</b>	LEL: UEL:
<b>Autoignition Pt:</b>	
<b>Suitable Extinguishing Media:</b>	Use water spray, dry chemical, carbon dioxide, or alcohol-resistant foam. Suitable: For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible.
<b>Fire Fighting Instructions:</b>	Wear self contained breathing apparatus for fire fighting if necessary. Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Specific Hazard(s): Emits toxic fumes under fire conditions.
<b>Flammable Properties and Hazards:</b>	
<b>Hazardous Combustion Products:</b>	



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### 6. ACCIDENTAL RELEASE MEASURES

#### Steps To Be Taken In Case Material Is Released Or Spilled:

Personal precautions.

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

Environmental precautions.

Do not let product enter drains.

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal. Evacuate personnel to safe areas.

PROCEDURE TO BE FOLLOWED IN CASE OF LEAK OR SPILL. PROCEDURE(S) OF PERSONAL PRECAUTION(S)

Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

Methods for cleaning up.

Cover with dry lime or soda ash, pick up, keep in a closed container, and hold for waste disposal. Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

Ventilate area and wash spill site after material pickup is complete.

### 7. HANDLING AND STORAGE

#### Precautions To Be Taken in Handling:

Avoid inhalation of vapor or mist.

Normal measures for preventive fire protection. User Exposure: Avoid contact with eyes, skin, and clothing.

#### Precautions To Be Taken in Storing:

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Suitable: Keep away from heat and open flame. Store in a cool, dry place. Hygroscopic.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
NA	Halogenated Phosphate			
NA	Amine Catalyst		TLV: 0.05 ppm STEL: 0.15 ppm	
<b>Respiratory Equipment (Specify Type):</b>	If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). (EU). Hand: Compatible chemical-resistant gloves. is not required. Where protection is desired, use multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges.			
<b>Eye Protection:</b>	Face shield and safety glasses. Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Chemical safety goggles.			
<b>Protective Gloves:</b>	Handle with gloves. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. Hand: Compatible chemical-resistant gloves. Eyes: Chemical safety goggles.			
<b>Other Protective Clothing:</b>	Choose body protection according to the amount and concentration of the dangerous substance at the work place. Complete suit protecting against chemicals.			
<b>Engineering Controls (Ventilation etc.):</b>	Use only in a chemical fume hood. Safety shower and eye bath. Mechanical exhaust required.			
<b>Work/Hygienic/Maintenance Practices:</b>	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. Wash contaminated clothing before reuse. Discard contaminated shoes. Wash thoroughly after handling.			



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EXPOSURE LIMITS, RTECS.  
Country Source Type Value.  
USA ACGIH TWA 0.05 PPM  
Remarks: Skin.  
STEL 0.15 PPM  
EXPOSURE LIMITS.  
USA TWA 0.05 ppm  
USA STEL 0.15 ppm

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical States:** ☐ Gas ☒ Liquid ☐ Solid  
**Appearance and Odor:** Viscous.  
Musty.  
**pH:**  
**Melting Point:**  
**Boiling Point:**  
**Flash Pt:** > 400.00 F  
**Evaporation Rate:**  
**Flammability (solid, gas):**  
**Explosive Limits:** LEL: UEL:  
**Vapor Pressure (vs. Air or mm Hg):** 1  
**Vapor Density (vs. Air = 1):**  
**Specific Gravity (Water = 1):**  
**Solubility in Water:**  
**Octanol/Water Partition Coefficient:**  
**Autoignition Pt:**  
**Decomposition Temperature:**  
**Viscosity:**

### 10. STABILITY AND REACTIVITY

**Stability:** Unstable ☐ Stable ☒  
**Conditions To Avoid - Instability:** No data available.  
**Incompatibility - Materials To Avoid:** No dangerous reaction known under conditions of normal use. Avoid moisture. Avoid direct Sunlight. Avoid excessive temperatures. Mineral acids, acids (organic, sodium hypochlorite). Corrodes metal.  
**Hazardous Decomposition or Byproducts:** formed under fire conditions. Carbon oxides, Phosphorous oxides, Hydrogen chloride gas, Thermal decomposition 244 °C nitrogen oxides (NOx), Carbon monoxide, Carbon dioxide, Nitrogen oxides, Ammonia, Nitric acid.  
**Possibility of Hazardous Reactions:** Will occur ☐ Will not occur ☒  
**Conditions To Avoid - Hazardous Reactions:**



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### 11. TOXICOLOGICAL INFORMATION

#### Toxicological Information:

CAS# NA:

Acute toxicity, LD50, Oral, Rat, 3600. MG/KG.

Results:

Behavioral: Somnolence (general depressed activity).

Behavioral: Tremor.

Lungs, Thorax, or Respiration: Other changes.

- National Technical Information Service, Vol/p/yr: OTS05, 7713

Acute toxicity, LD50, Intravenous, Mouse, 56.00 MG/KG.

Results:

Behavioral: Food intake (animal).

Nutritional and Gross Metabolic: Weight loss or decreased weight gain.

- U.S. Army Armament Research &amp; Development Command, Chemical Systems Laboratory, NIOSH Exchange Chemicals., Aberdeen Proving Ground., Aberdeen Proving Ground, MD 21010, Vol/p/yr: NX#, 5768

Skin corrosion/irritation, Skin sensitization, This product does not contain any relevant quantities of materials with critical values that have to be monitored in the workplace., Rabbit, 0.000, Mild.

Results:

Sense Organs and Special Senses (Nose, Eye, Ear, and Taste): Eye: Lacrimation.

Behavioral: Tremor.

Lungs, Thorax, or Respiration: Cyanosis.

#### Irritation or Corrosion:

Skin - rabbit - Mild skin irritation - 24 h.

Serious eye damage/eye irritation:

Skin - rabbit - Corrosive.

Eyes - rabbit - Severe eye irritation.

#### Carcinogenicity/Other Information:

Carcinogenicity.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
NA	Halogenated Phosphate				
NA	Amine Catalyst				

### 12. ECOLOGICAL INFORMATION

#### Persistence and

No data available.

#### Degradability:

Biodegradability:

#### Bioaccumulative Potential:

No data available.

#### Mobility in Soil:

No data available.



# SAFETY DATA SHEET

## Quik-Shield 106 B

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### 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Method:** Product.  
Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging.  
Dispose of as unused product. Offer surplus and non-recyclable solutions to a licensed disposal company. APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION. This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber.

### 14. TRANSPORT INFORMATION

**GHS Classification:** Acute Toxicity: Oral, Category 4 - Warning! Harmful if swallowed  
Acute Toxicity: Skin, Category 5 - Warning! May be harmful in contact with skin  
Skin Corrosion/Irritation, Category 1A-1C - Danger! Causes severe skin burns and eye damage  
Serious Eye Damage/Eye Irritation, Category 2B - Warning! Causes eye irritation

#### LAND TRANSPORT (US DOT):

**DOT Proper Shipping Name:** Not Regulated.

**DOT Hazard Class:**

**UN/NA Number:**

#### LAND TRANSPORT (Canadian TDG):

**TDG Shipping Name:** Not Regulated.

**UN Number:**

**Hazard Class:**

**TDG Classification:**

#### LAND TRANSPORT (European ADR/RID):

**ADR/RID Shipping Name:** Not dangerous goods.

**UN Number:**

**Hazard Class:**

#### MARINE TRANSPORT (IMDG/IMO):

**IMDG/IMO Shipping Name:** Not Regulated.

#### AIR TRANSPORT (ICAO/IATA):

**ICAO/IATA Shipping Name:** Not Regulated.

### 15. REGULATORY INFORMATION

#### EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
NA	Halogenated Phosphate	No	No	No
NA	Amine Catalyst	No	No	No

#### CAS # Hazardous Components (Chemical Name) Other US EPA or State Lists

NA	Halogenated Phosphate	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory, 8D TERM; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: No; NY Part 597: No; PA HSL: No; SC TAP: No; WI Air: No
NA	Amine Catalyst	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: No; NY Part 597: No; PA HSL: No; SC TAP: No; WI Air: Yes



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CAS #	Hazardous Components (Chemical Name)	International Regulatory Lists
NA	Halogenated Phosphate	Canadian DSL: Yes; Canadian NDSL: No
NA	Amine Catalyst	Canadian DSL: Yes; Canadian NDSL: No

**Regulatory Information:** This product contains no chemicals subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 40 CFR part 372.

### 16. OTHER INFORMATION

**Revision Date:** 03/09/2017

#### Additional Information About

##### This Product:

##### Company Policy or

##### Disclaimer:

While the information and recommendations in this publication are given to the best of our knowledge, and information at the date of publication, nothing herein is to be construed as a warranty, expressed or otherwise. In all cases, it is the responsibility of the user to determine the applicability of such information, and recommendations or the suitability of any product for its own particular purpose.

The product may present hazards and should be used with caution. While certain hazards are described in this Safety Data Sheet, no guarantee is made that these are the only hazards that exist. Hazards, toxicity and behavior of the products may differ when used with other materials and are dependent upon the manufacturing circumstances or other processes. Such hazards, toxicity and behavior should be determined by the user and made known to handlers, processors and end users.

NO PERSON OR ORGANIZATION EXCEPT A DULY AUTHORIZED SWD EMPLOYEE SHALL PROVIDE, OR MAKE AVAILABLE, DATA SHEETS FOR SWD PRODUCTS. DATA SHEETS FROM UNAUTHORIZED SOURCES MAY CONTAIN INFORMATION THAT IS NO LONGER CURRENT OR ACCURATE. NO PART OF THIS DATA SHEET MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM, OR BY ANY MEANS, WITHOUT THE WRITTEN PERMISSION OF SWD. ALL REQUESTS FOR PERMISSION TO REPRODUCE MATERIAL FROM THIS DATA SHEET OR QUESTIONS REGARDING THIS DATA SHEET SHOULD BE DIRECTED TO SWD AT 800-828-1394.





# SAFETY DATA SHEET

## Quik-Shield A

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Supersedes Revision: 01/05/2016

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Code:** QS A  
**Product Name:** Quik-Shield A  
**Company Name:** SWD URETHANE  
539 S. Drew St.  
Mesa, AZ 85210,  
**Web site address:** www.swdurethane.com  
**Emergency Contact:** CHEMTREC  
(800) 424-9300

### 2. HAZARDS IDENTIFICATION

**Acute Toxicity:** Oral, Category 5  
**Skin Corrosion/Irritation,** Category 2  
**Skin Sensitization,** Category 1  
**Serious Eye Damage/Eye Irritation,** Category 2B  
**Acute Toxicity:** Inhalation, Category 4  
**Respiratory Sensitization,** Category 1  
**Carcinogenicity,** Category 2



**GHS Signal Word:** Danger

**GHS Hazard Phrases:** H303 - May be harmful if swallowed.  
H315 - Causes skin irritation.  
H317 - Health Hazards: Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure.  
H320 - Causes eye irritation.  
H332 - Harmful if inhaled.  
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H351 - Suspected of causing cancer .  
H401 - Toxic to aquatic life.

**GHS Precaution Phrases:** P201 - Obtain special instructions before use.  
P202 - Do not handle until all safety precautions have been read and understood.  
P260 - Do not breathe dust/fume/gas/mist/vapors/spray.  
P264 - Wash hands thoroughly after handling.  
P271 - Use only outdoors or in a well-ventilated area.  
P272 - Contaminated work clothing should not be allowed out of the workplace.  
P273 - Avoid release to the environment.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P284 - Wear respiratory protection .  
P285 - In case of inadequate ventilation wear respiratory protection.

**GHS Response Phrases:** P302+352 - IF ON SKIN: Wash with plenty of soap and water.  
P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P341 - If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.  
P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308+313 - IF exposed or concerned: Get medical attention/advice.  
P332+313 - If skin irritation occurs, get medical advice/attention.





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<b>GHS Storage and Disposal Phrases:</b>	P337+313 - If eye irritation persists, get medical advice/attention.
	P342+311 - If experiencing respiratory symptoms call a POISON CENTER or doctor/physician.
	P362 - Take off contaminated clothing and wash before re-use.
	P405 - Store locked up.
<b>Inhalation:</b>	Causes respiratory tract irritation.
<b>Skin Contact:</b>	May be harmful if absorbed through the skin. Causes skin irritation.
<b>Eye Contact:</b>	Causes eye irritation.
<b>Ingestion:</b>	May be harmful if swallowed.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Hazardous Components (Chemical Name)	Concentration
101-68-8	Methylenebis(phenylisocyanate) {MBI; Methylene diphenyl diisocyanate; MDI; Diphenylmethane-4,4'-diisocyanate}	30.0 -60.0 %
NA	MDI, mixed isomers	30.0 -60.0 %

### 4. FIRST AID MEASURES

<b>Emergency and First Aid Procedures:</b>	
<b>In Case of Inhalation:</b>	If breathed in, move person into fresh air. If not breathing give artificial respiration.
<b>In Case of Skin Contact:</b>	Wash off with soap and plenty of water. Consult a physician.
<b>In Case of Eye Contact:</b>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
<b>In Case of Ingestion:</b>	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
<b>Signs and Symptoms Of Exposure:</b>	Cough, Shortness of breath, Headache. Nausea. Vomiting, Pulmonary edema. Effects may be delayed.
<b>Note to Physician:</b>	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

### 5. FIRE FIGHTING MEASURES

Flash Pt:	> 150.00 C	Method Used:	Closed Cup
Explosive Limits:	LEL:		UEL:
Autoignition Pt:	NA		
Suitable Extinguishing Media:	Use water spray, dry chemical, carbon dioxide, or alcohol-resistant foam.		
Fire Fighting Instructions:	Wear self contained breathing apparatus for fire fighting if necessary.		
Flammable Properties and Hazards:			
Hazardous Combustion Products:			



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### 6. ACCIDENTAL RELEASE MEASURES

**Steps To Be Taken In Case Material Is Released Or Spilled:**

Personal precautions.  
Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.  
Environmental precautions.  
Do not let product enter drains.

Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

### 7. HANDLING AND STORAGE

**Precautions To Be Taken in Handling:** Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

**Precautions To Be Taken in Storing:** Keep container tightly closed in a dry and well-ventilated place.  
Recommended storage temperature: 15 - 38 deg.C.  
Store under inert gas. Moisture sensitive.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
101-68-8	Methylenebis(phenylisocyanate) {MBI; Methylene diphenyl diisocyanate; MDI; Diphenylmethane-4,4'-diisocyanate}	CEIL: 0.02 ppm	TLV: 0.005 ppm	
NA	MDI, mixed isomers			
<b>Respiratory Equipment (Specify Type):</b>		When the product is sprayed or heated without adequate ventilation, an approved MSHA/NIOSH positive-pressure, supplied air respirator may be required. Air purifying respirators equipped with organic vapor cartridges and HEPA (P100) particulate filter may be used under certain conditions when the cartridge change-out schedule has been developed in accordance with the OSHA respiratory protection standard (29 CFR 1910.134).		
<b>Eye Protection:</b>		Face shield and safety glasses.		
<b>Protective Gloves:</b>		Handle with gloves.		
<b>Other Protective Clothing:</b>		Choose body protection according to the amount and concentration of the dangerous substance at the work place.		
<b>Engineering Controls (Ventilation etc.):</b>				
<b>Work/Hygienic/Maintenance Practices:</b>		Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.		



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### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical States:** [ ] Gas [ X ] Liquid [ ] Solid

**Appearance and Odor:** Slightly. Musty.

**pH:**

**Melting Point:** 42.00 C - 45.00 C

**Boiling Point:** 200.00 C

**Flash Pt:** > 150.00 C Method Used: Closed Cup

**Evaporation Rate:**

**Flammability (solid, gas):**

**Explosive Limits:** LEL: UEL:

**Vapor Pressure (vs. Air or mm Hg):** 1

**Vapor Density (vs. Air = 1):**

**Specific Gravity (Water = 1):**

**Density:** 1.18 G/CM3

**Solubility in Water:**

**Octanol/Water Partition Coefficient:**

**Autoignition Pt:** NA

**Decomposition Temperature:**

**Viscosity:**

### 10. STABILITY AND REACTIVITY

**Stability:** Unstable [ ] Stable [ X ]

**Conditions To Avoid - Instability:** Contact with moisture, other materials that react with isocyanates, or temperatures above 350 °F (177 °C), may cause polymerization.

**Incompatibility - Materials To Avoid:** Water. Amines, Strong bases, Alcohols.

**Hazardous Decomposition or Byproducts:** formed under fire conditions. Carbon oxides, nitrogen oxides (NOx).

**Possibility of Hazardous Reactions:** Will occur [ ] Will not occur [ X ]

**Conditions To Avoid - Hazardous Reactions:**



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### 11. TOXICOLOGICAL INFORMATION

#### Toxicological Information:

##### Irritation or Corrosion:

Serious eye damage/eye irritation:  
Eyes - rabbit - Moderate eye irritation.

##### Carcinogenicity/Other Information:

Carcinogenicity.  
This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

Limited evidence of carcinogenicity in animal studies.  
IARC: Group 3: Not classifiable as to its carcinogenicity to humans 3.  
ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.  
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.  
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
101-68-8	Methylenebis(phenylisocyanate) {MBI; Methylene diphenyl diisocyanate; MDI; Diphenylmethane-4,4'-diisocyanate}		3		
NA	MDI, mixed isomers		3		

### 12. ECOLOGICAL INFORMATION

##### Persistence and Degradability:

No data available.

##### Bioaccumulative Potential:

No data available.

##### Mobility in Soil:

No data available.

### 13. DISPOSAL CONSIDERATIONS

##### Waste Disposal Method:

Product.  
Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging.  
Dispose of as unused product.

### 14. TRANSPORT INFORMATION

##### GHS Classification:

Acute Toxicity: Oral, Category 5 - Warning! May be harmful if swallowed  
Skin Corrosion/Irritation, Category 2 - Warning! Causes skin irritation  
Skin Sensitization, Category 1 - Warning! May cause an allergic skin reaction  
Serious Eye Damage/Eye Irritation, Category 2B - Warning! Causes eye irritation  
Acute Toxicity: Inhalation, Category 4 - Warning! Harmful if inhaled  
Respiratory Sensitization, Category 1 - Danger! May cause allergy or asthma symptoms or breathing difficulties if inhaled  
Carcinogenicity, Category 2 - Warning! Suspected of causing cancer  
Aquatic Toxicity (Acute), Category 2 - Toxic to aquatic life



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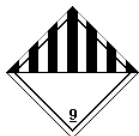
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### LAND TRANSPORT (US DOT):

**DOT Proper Shipping Name:** Other regulated substances, Liquid, N.O.S. (Methylene Diphenyl Diisocyanate)**DOT Hazard Class:** 9 CLASS 9**UN/NA Number:** NA3082**Packing Group:** III

### LAND TRANSPORT (Canadian TDG):

**TDG Shipping Name:** Not Regulated.**UN Number:** 3082**Packing Group:** III**Hazard Class:** 9 - CLASS 9**TDG Classification:**

### MARINE TRANSPORT (IMDG/IMO):

**IMDG/IMO Shipping Name:** Not Regulated.

### AIR TRANSPORT (ICAO/IATA):

**ICAO/IATA Shipping Name:** Not Regulated.**Additional Transport Information:** Containers shipped with less than 20,000 LBS are classified as Non-Hazardous.

## 15. REGULATORY INFORMATION

### EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
101-68-8	Methylenebis(phenylisocyanate) {MBI; Methylene diphenyl diisocyanate; MDI; Diphenylmethane-4,4'-diisocyanate}	No	Yes 5000 LB	Yes-Cat. N120
NA	MDI, mixed isomers	No	No	Yes-Cat. N120

### CAS # Hazardous Components (Chemical Name)

### Other US EPA or State Lists

101-68-8	Methylenebis(phenylisocyanate) {MBI; Methylene diphenyl diisocyanate; MDI; Diphenylmethane-4,4'-diisocyanate}	CAA HAP,ODC: HAP; CWA NPDES: No; TSCA: Yes - Inventory, 8C; CA PROP.65: No; CA TAC, Title 8: TAC, Title 8; MA Oil/HazMat: No; MI CMR, Part 5: Part 5; NC TAP: Yes; NJ EHS: Yes - Cat.; NY Part 597: Yes; PA HSL: Yes - E; SC TAP: Yes; WI Air: Yes
NA	MDI, mixed isomers	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory, 8C, 8D TERM; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: Yes - Cat.; NY Part 597: No; PA HSL: No; SC TAP: No; WI Air: No

### CAS # Hazardous Components (Chemical Name)

### International Regulatory Lists

101-68-8	Methylenebis(phenylisocyanate) {MBI; Methylene diphenyl diisocyanate; MDI; Diphenylmethane-4,4'-diisocyanate}	Canadian DSL: Yes; Canadian NDSL: No
NA	MDI, mixed isomers	Canadian DSL: Yes; Canadian NDSL: No

**Regulatory Information:** This product contains chemicals subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR part 372.

Incipient fire responders should wear eye protection. Firefighters must wear Self-Contained Breathing Apparatus and full protective equipment. Isolate materials not yet involved in the fire and protect personnel. Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray. If possible, prevent runoff water from entering storm drains, bodies of water, or other



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environmentally sensitive areas.  
Incipient fire responders should wear eye protection. Firefighters must wear Self-Contained Breathing Apparatus and full protective equipment. Isolate materials not yet involved in the fire and protect personnel. Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas.

### 16. OTHER INFORMATION

**Revision Date:** 07/13/2017

**Additional Information About  
This Product:**

**Company Policy or  
Disclaimer:**

While the information and recommendations in this publication are given to the best of our knowledge, and information at the date of publication, nothing herein is to be construed as a warranty, expressed or otherwise. In all cases, it is the responsibility of the user to determine the applicability of such information, and recommendations or the suitability of any product for its own particular purpose.

The product may present hazards and should be used with caution. While certain hazards are described in this Safety Data Sheet, no guarantee is made that these are the only hazards that exist. Hazards, toxicity and behavior of the products may differ when used with other materials and are dependent upon the manufacturing circumstances or other processes. Such hazards, toxicity and behavior should be determined by the user and made known to handlers, processors and end users.

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# SAFETY DATA SHEET

## Quik-Shield 108 YM Resin (B)

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Printed: 02/12/2018

Revision: 02/12/2018

Supersedes Revision: 04/03/2015

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Code:** QS 108 YM B  
**Product Name:** Quik-Shield 108 YM Resin (B)  
**Company Name:** SWD URETHANE  
539 S. Drew St.  
Mesa, AZ 85210,  
**Web site address:** www.swdurethane.com  
**Emergency Contact:** CHEMTREC  
(800) 424-9300

### 2. HAZARDS IDENTIFICATION

**Acute Toxicity: Oral, Category 4**  
**Acute Toxicity: Skin, Category 5**  
**Skin Corrosion/Irritation, Category 3**  
**Serious Eye Damage/Eye Irritation, Category 2B**  
**Skin Corrosion/Irritation, Category 2**  
**Serious Eye Damage/Eye Irritation, Category 1**



**GHS Signal Word:** Danger

**GHS Hazard Phrases:** H302 - Harmful if swallowed.  
H313 - May be harmful in contact with skin.  
H315 - Causes skin irritation.  
H316 - Causes mild skin irritation.  
H318 - Causes serious eye damage.  
H320 - Causes eye irritation.  
H402 - Harmful to aquatic life.

**GHS Precaution Phrases:** P264 - Wash hands thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.  
P273 - Avoid release to the environment.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.

**GHS Response Phrases:** P301+312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
P302+352 - IF ON SKIN: Wash with plenty of soap and water.  
P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 - Immediately call a POISON CENTER or doctor/physician.  
P321 - Specific treatment see ... on this label.  
P330 - Rinse mouth.  
P332+313 - If skin irritation occurs, get medical advice/attention.  
P337+313 - If eye irritation persists, get medical advice/attention.  
P362 - Take off contaminated clothing and wash before re-use.

**GHS Storage and Disposal Phrases:** P501 - Dispose of contents/container to ...





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<b>Inhalation:</b>	May be harmful if inhaled. Causes respiratory tract irritation. Material is irritating to mucous membranes and upper respiratory tract.
<b>Skin Contact:</b>	May be harmful if absorbed through the skin. Causes skin irritation. Causes burns. Skin Absorption: Toxic if absorbed through skin.
<b>Eye Contact:</b>	Causes eye irritation. Causes burns. Causes eye burns.
<b>Ingestion:</b>	Harmful if swallowed. Harmful if swallowed.  Small intestine. Large intestine.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Hazardous Components (Chemical Name)	Concentration
NA	Halogenated Phosphate	30.0 -50.0 %
NA	Non-Emissive Amine Catalyst	5.0 -10.0 %
NA	Proprietary Amine	0.0 -10.0 %

### 4. FIRST AID MEASURES

#### Emergency and First Aid

##### Procedures:

<b>In Case of Inhalation:</b>	If breathed in, move person into fresh air. If not breathing give artificial respiration. If inhaled, remove to fresh air. Consult a physician.
<b>In Case of Skin Contact:</b>	Wash off with soap and plenty of water. Consult a physician. In case of contact, immediately wash skin with soap and copious amounts of water. In case of skin contact, flush with copious amounts of water for at least 15 minutes. Call a physician. Take off contaminated clothing and shoes immediately.
<b>In Case of Eye Contact:</b>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes. In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician. Continue rinsing eyes during transport to hospital.
<b>In Case of Ingestion:</b>	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician. If swallowed, wash out mouth with water provided person is conscious. Call a physician. Call a physician immediately. Do NOT induce vomiting.
<b>Signs and Symptoms Of Exposure:</b>	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Skin rash. Damage to the liver. Asthma. Gastrointestinal disturbances. Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin. Inhalation may result in spasm, inflammation and edema of the larynx and bronchi, chemical pneumonitis, and pulmonary edema. Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting. Cough, Shortness of breath, Headache.
<b>Note to Physician:</b>	Show this safety data sheet to the doctor in attendance. Move out of dangerous area.





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### 5. FIRE FIGHTING MEASURES

**Flash Pt:**

**Explosive Limits:**

LEL:

UEL:

**Autoignition Pt:**

**Suitable Extinguishing Media:** Use water spray, dry chemical, carbon dioxide, or alcohol-resistant foam. Suitable: For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible.

**Fire Fighting Instructions:** Wear self contained breathing apparatus for fire fighting if necessary. Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Specific Hazard(s): Emits toxic fumes under fire conditions.

**Flammable Properties and**

**Hazards:**

**Hazardous Combustion**

**Products:**

### 6. ACCIDENTAL RELEASE MEASURES

**Steps To Be Taken In Case Material Is Released Or Spilled:**

Personal precautions.  
Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.  
Environmental precautions.  
Do not let product enter drains.

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal. PROCEDURE(S) OF PERSONAL PRECAUTION(S)  
Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.  
Methods for cleaning up.  
Absorb on sand or vermiculite and place in closed containers for disposal. Ventilate area and wash spill site after material pickup is complete. PROCEDURE TO BE FOLLOWED IN CASE OF LEAK OR SPILL. Evacuate area. Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

### 7. HANDLING AND STORAGE

**Precautions To Be Taken in Handling:** Avoid inhalation of vapor or mist.  
Normal measures for preventive fire protection. User Exposure: Avoid contact with eyes, skin, and clothing.

**Precautions To Be Taken in Storing:** Keep container tightly closed in a dry and well-ventilated place. Suitable: Keep tightly closed. Keep away from heat and open flame.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
NA	Halogenated Phosphate			
NA	Non-Emissive Amine Catalyst			
NA	Proprietary Amine			



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<b>Respiratory Equipment (Specify Type):</b>	Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi- purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Hand: Compatible chemical-resistant gloves.
<b>Eye Protection:</b>	Face shield and safety glasses. Chemical safety goggles. Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
<b>Protective Gloves:</b>	Handle with gloves. Eyes: Chemical safety goggles. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Wash and dry hands.
<b>Other Protective Clothing:</b>	Choose body protection according to the amount and concentration of the dangerous substance at the work place. Complete suit protecting against chemicals.
<b>Engineering Controls (Ventilation etc.):</b>	Mechanical exhaust required. Safety shower and eye bath. Use only in a chemical fume hood.
<b>Work/Hygienic/Maintenance Practices:</b>	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. Wash thoroughly after handling. Wash contaminated clothing before reuse. Discard contaminated shoes. EXPOSURE LIMITS, RTECS. Country Source Type Value. USA ACGIH TWA 0.05 PPM Remarks: Skin. STEL 0.15 PPM EXPOSURE LIMITS. USA TWA 0.05 ppm USA STEL 0.15 ppm

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical States:</b>	[ ] Gas    [ X ] Liquid    [ ] Solid		
<b>Appearance and Odor:</b>	amber. Musty.		
<b>pH:</b>			
<b>Melting Point:</b>			
<b>Boiling Point:</b>			
<b>Flash Pt:</b>			
<b>Evaporation Rate:</b>			
<b>Flammability (solid, gas):</b>			
<b>Explosive Limits:</b>	LEL:		UEL:
<b>Vapor Pressure (vs. Air or mm Hg):</b>			
<b>Vapor Density (vs. Air = 1):</b>			
<b>Specific Gravity (Water = 1):</b>			
<b>Solubility in Water:</b>			



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Octanol/Water Partition  
Coefficient:  
Autoignition Pt:  
Decomposition Temperature:  
Viscosity:

### 10. STABILITY AND REACTIVITY

**Stability:** Unstable [ ] Stable [ X ]

**Conditions To Avoid -** No data available.

**Instability:**

**Incompatibility - Materials To Avoid:** Strong oxidizing agents. Mineral acids, acids (organic, sodium hypochlorite). Corrodes metal. Avoid moisture. Avoid direct Sunlight. Avoid excessive temperatures.

**Hazardous Decomposition or Byproducts:** formed under fire conditions. Carbon oxides, Phosphorous oxides, Hydrogen chloride gas, Thermal decomposition 244 °C Carbon monoxide, Carbon dioxide, Nitrogen oxides, Ammonia, Nitric acid, nitrogen oxides (NOx).

**Possibility of Hazardous Reactions:** Will occur [ ] Will not occur [ X ]

**Conditions To Avoid - Hazardous Reactions:**

### 11. TOXICOLOGICAL INFORMATION

**Toxicological Information:** CAS# NA:  
Acute toxicity, LD50, Oral, Rat, 3600. MG/KG.  
Results:  
Behavioral: Somnolence (general depressed activity).  
Behavioral: Tremor.  
Lungs, Thorax, or Respiration: Other changes.  
- National Technical Information Service, Vol/p/yr: OTS05, 7713

Acute toxicity, LD50, Intravenous, Mouse, 56.00 MG/KG.  
Results:  
Behavioral: Food intake (animal).  
Nutritional and Gross Metabolic: Weight loss or decreased weight gain.  
- U.S. Army Armament Research & Development Command, Chemical Systems Laboratory, NIOSH Exchange Chemicals., Aberdeen Proving Ground., Aberdeen Proving Ground, MD 21010, Vol/p/yr: NX#, 5768

Skin corrosion/irritation, Skin sensitization, This product does not contain any relevant quantities of materials with critical values that have to be monitored in the workplace., Rabbit, 0.000 , Mild.  
Results:  
Sense Organs and Special Senses (Nose, Eye, Ear, and Taste): Eye: Lacrimation.  
Behavioral: Tremor.  
Lungs, Thorax, or Respiration: Cyanosis.

**Irritation or Corrosion:** Skin - rabbit - Mild skin irritation - 24 h.  
Serious eye damage/eye irritation:  
Skin - rabbit - Corrosive.  
Eyes - rabbit - Severe eye irritation.

**Carcinogenicity/Other Information:** Carcinogenicity.  
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.



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ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
NA	Halogenated Phosphate				
NA	Non-Emissive Amine Catalyst				
NA	Proprietary Amine				

## 12. ECOLOGICAL INFORMATION

**Persistence and** No data available.

**Degradability:** Biodegradability:

**Bioaccumulative Potential:** No data available.

**Mobility in Soil:** No data available.

## 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Method:** Product.  
Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging.

Dispose of as unused product. APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION. This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company.

## 14. TRANSPORT INFORMATION

**GHS Classification:** Acute Toxicity: Oral, Category 4 - Warning! Harmful if swallowed  
Acute Toxicity: Skin, Category 5 - Warning! May be harmful in contact with skin  
Skin Corrosion/Irritation, Category 3 - Warning! Causes mild skin irritation  
Serious Eye Damage/Eye Irritation, Category 2B - Warning! Causes eye irritation  
Aquatic Toxicity (Acute), Category 3 - Harmful to aquatic life  
Skin Corrosion/Irritation, Category 2 - Warning! Causes skin irritation  
Serious Eye Damage/Eye Irritation, Category 1 - Danger! Causes serious eye damage

### LAND TRANSPORT (US DOT):

**DOT Proper Shipping Name:**

**DOT Hazard Class:**

**UN/NA Number:**

### LAND TRANSPORT (Canadian TDG):

**TDG Shipping Name:**

**UN Number:**

**Hazard Class:**

**TDG Classification:**



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### AIR TRANSPORT (ICAO/IATA):

**ICAO/IATA Shipping Name:** Non-Hazardous for Air Transport: Non-hazardous for air transport. UN Number: 2927 Hazard Class: 6.1 Packing Group: II.

## 15. REGULATORY INFORMATION

### EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
NA	Halogenated Phosphate	No	No	No
NA	Non-Emissive Amine Catalyst	No	No	No
NA	Proprietary Amine	No	No	No

### CAS # Hazardous Components (Chemical Name)

### Other US EPA or State Lists

NA	Halogenated Phosphate	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory, 8D TERM; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: No; NY Part 597: No; PA HSL: No; SC TAP: No; WI Air: No
NA	Non-Emissive Amine Catalyst	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: No; NY Part 597: No; PA HSL: No; SC TAP: No; WI Air: No
NA	Proprietary Amine	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: No; NY Part 597: No; PA HSL: No; SC TAP: No; WI Air: No

### CAS # Hazardous Components (Chemical Name)

### International Regulatory Lists

NA	Halogenated Phosphate	Canadian DSL: Yes; Canadian NDSL: No
NA	Non-Emissive Amine Catalyst	Canadian DSL: No; Canadian NDSL: No
NA	Proprietary Amine	Canadian DSL: No; Canadian NDSL: No

## 16. OTHER INFORMATION

**Revision Date:** 02/12/2018

### Additional Information About

### This Product:

### Company Policy or

### Disclaimer:

While the information and recommendations in this publication are given to the best of our knowledge, and information at the date of publication, nothing herein is to be construed as a warranty, expressed or otherwise. In all cases, it is the responsibility of the user to determine the applicability of such information, and recommendations or the suitability of any product for its own particular purpose.

The product may present hazards and should be used with caution. While certain hazards are described in this Safety Data Sheet, no guarantee is made that these are the only hazards that exist. Hazards, toxicity and behavior of the products may differ when used with other materials and are dependent upon the manufacturing circumstances or other processes. Such hazards, toxicity and behavior should be determined by the user and made known to handlers, processors and end users.

NO PERSON OR ORGANIZATION EXCEPT A DULY AUTHORIZED SWD EMPLOYEE SHALL PROVIDE, OR MAKE AVAILABLE, DATA SHEETS FOR SWD PRODUCTS. DATA SHEETS FROM UNAUTHORIZED SOURCES MAY CONTAIN INFORMATION THAT IS NO LONGER CURRENT OR ACCURATE. NO PART OF THIS DATA SHEET



# **SAFETY DATA SHEET**

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MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM, OR BY ANY MEANS, WITHOUT THE WRITTEN PERMISSION OF SWD. ALL REQUESTS FOR PERMISSION TO REPRODUCE MATERIAL FROM THIS DATA SHEET OR QUESTIONS REGARDING THIS DATA SHEET SHOULD BE DIRECTED TO SWD AT 800-828-1394.



# SAFETY DATA SHEET

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### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Code:** QS 112 B  
**Product Name:** Quik-Shield 112 B  
**Company Name:** SWD URETHANE  
539 S. Drew St.  
Mesa, AZ 85210,  
**Web site address:** www.swdurethane.com  
**Emergency Contact:** CHEMTREC  
(800) 424-9300

### 2. HAZARDS IDENTIFICATION

**Acute Toxicity: Oral, Category 4**  
**Acute Toxicity: Skin, Category 5**  
**Skin Corrosion/Irritation, Category 3**  
**Serious Eye Damage/Eye Irritation, Category 2B**  
**Aquatic Toxicity (Acute), Category 3**



**GHS Signal Word:** Warning

**GHS Hazard Phrases:** H302 - Harmful if swallowed.  
H313 - May be harmful in contact with skin.  
H316 - Causes mild skin irritation.  
H320 - Causes eye irritation.  
H402 - Harmful to aquatic life.

**GHS Precaution Phrases:** P264 - Wash hands thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.  
P273 - Avoid release to the environment.

**GHS Response Phrases:** No phrases apply.

**GHS Storage and Disposal Phrases:** No phrases apply.

**Potential Health Effects (Acute and Chronic):**

**Inhalation:** May be harmful if inhaled. Causes respiratory tract irritation. May cause narcotic effects in high concentration. Eye irritation, vertigo, and nausea were reported in humans exposed at 2200 ppm.

**Skin Contact:** May be harmful if absorbed through the skin. Causes skin irritation. Causes moderate skin irritation. May cause dermatitis.

**Eye Contact:** Causes eye irritation.

**Ingestion:** Harmful if swallowed. May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May cause central nervous system depression.



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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Hazardous Components (Chemical Name)	Concentration
460-73-1	1,1,1,3,3-Pentafluoropropane {HFC-245fa}	7.0 -13.0 %
NA	Halogenated Phosphate	7.0 -13.0 %
156-60-5	Trans-1,2-Dichloroethylene {1,2-trans-Dichloroethylene; Ethene, 1,2-dichloro-, (E)-}	1.0 -3.0 %

### 4. FIRST AID MEASURES

#### Emergency and First Aid

##### Procedures:

**In Case of Inhalation:** If breathed in, move person into fresh air. If inhaled, remove to fresh air. If not breathing, give artificial respiration. Get medical aid.

**In Case of Skin Contact:** Wash off with soap and plenty of water. Consult a physician. In case of contact, flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical aid if irritation develops and persists. Wash clothing before reuse.

**In Case of Eye Contact:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical aid.

**In Case of Ingestion:** Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician. Get medical aid.

**Signs and Symptoms Of Exposure:** To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**Note to Physician:** Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area. Treat symptomatically and supportively.

### 5. FIRE FIGHTING MEASURES

**Flash Pt:** No data.

**Explosive Limits:** LEL: No data. UEL: No data.

**Autoignition Pt:** No data.

**Suitable Extinguishing Media:** Use water spray, dry chemical, carbon dioxide, or alcohol-resistant foam.

**Fire Fighting Instructions:** Wear self contained breathing apparatus for fire fighting if necessary. As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Vapors may form explosive mixtures with air. Use water spray to keep fire-exposed containers cool. Flammable liquid and vapor. Fire or excessive heat may result in violent rupture of the container due to bulk polymerization. Vapors are heavier than air and may travel to a source of ignition and flash back. Vapors can spread along the ground and collect in low or confined areas.

**Flammable Properties and Hazards:** No data available.





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### 6. ACCIDENTAL RELEASE MEASURES

#### Steps To Be Taken In Case Material Is Released Or Spilled:

Personal precautions.  
Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.  
Environmental precautions.  
Do not let product enter drains.

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal. Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Remove all sources of ignition. Use a spark-proof tool.

### 7. HANDLING AND STORAGE

#### Precautions To Be Taken in Handling:

Avoid inhalation of vapor or mist.  
Normal measures for preventive fire protection. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Ground and bond containers when transferring material. Use spark-proof tools and explosion proof equipment. Avoid contact with eyes, skin, and clothing. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Avoid ingestion and inhalation. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames. Use only with adequate ventilation. Pure vapor will be uninhibited and may polymerize in vents or other confined spaces.

#### Precautions To Be Taken in Storing:

Keep container tightly closed in a dry and well-ventilated place. Keep away from sources of ignition. Store in a tightly closed container. Flammables-area. Store protected from light and air.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
460-73-1	1,1,1,3,3-Pentafluoropropane {HFC-245fa}	No data.	No data.	No data.
NA	Halogenated Phosphate	No data.	No data.	No data.
156-60-5	Trans-1,2-Dichloroethylene {1,2-trans-Dichloroethylene; Ethene, 1,2-dichloro-, (E)-}	No data.	TLV: 200 ppm	No data.

#### Respiratory Equipment (Specify Type):

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi- purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

#### Eye Protection:

Face shield and safety glasses. Wear chemical splash goggles.

#### Protective Gloves:

Handle with gloves. Wear appropriate protective gloves to prevent skin exposure.

#### Other Protective Clothing:

Choose body protection according to the amount and concentration of the dangerous substance at the work place. Wear appropriate protective clothing to prevent skin exposure.

#### Engineering Controls

Use process enclosure, local exhaust ventilation, or other engineering controls to control



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**(Ventilation etc.):** airborne levels below recommended exposure limits. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

**Work/Hygienic/Maintenance Practices:** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical States:** ☐ Gas ☒ Liquid ☐ Solid

**Appearance and Odor:** Viscous.  
Light. Brown.

**Melting Point:** No data.

**Boiling Point:** No data.

**Autoignition Pt:** No data.

**Flash Pt:** No data.

**Explosive Limits:** LEL: No data. UEL: No data.

**Specific Gravity (Water = 1):** No data.

**Vapor Pressure (vs. Air or mm Hg):** No data.

**Vapor Density (vs. Air = 1):** No data.

**Evaporation Rate:** No data.

**Solubility in Water:** No data.

**Percent Volatile:** No data.

### 10. STABILITY AND REACTIVITY

**Stability:** Unstable ☐ Stable ☒

**Conditions To Avoid -** No data available.

**Instability:** Light, ignition sources, Exposure to air.

**Incompatibility - Materials To Avoid:** Strong oxidizing agents, Strong bases, Copper.

**Hazardous Decomposition or Byproducts:** formed under fire conditions. Carbon oxides, Phosphorous oxides, Hydrogen chloride gas, Thermal decomposition 244 °C Hydrogen chloride, phosgene, Carbon monoxide.

**Possibility of Hazardous Reactions:** Will occur ☐ Will not occur ☒

**Conditions To Avoid -** No data available.

**Hazardous Reactions:**



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### 11. TOXICOLOGICAL INFORMATION

#### Toxicological Information:

Epidemiology: No data available.  
Teratogenicity: No data available.  
Reproductive Effects: Mutagenicity: Neurotoxicity: Other Studies:

CAS# NA:

Acute toxicity, LD50, Oral, Rat, 3600. MG/KG.

Results:

Behavioral: Somnolence (general depressed activity).

Behavioral: Tremor.

Lungs, Thorax, or Respiration: Other changes.

- National Technical Information Service, Vol/p/yr: OTS05, 7713

Acute toxicity, LD50, Intravenous, Mouse, 56.00 MG/KG.

Results:

Behavioral: Food intake (animal).

Nutritional and Gross Metabolic: Weight loss or decreased weight gain.

- U.S. Army Armament Research & Development Command, Chemical Systems Laboratory, NIOSH Exchange Chemicals., Aberdeen Proving Ground., Aberdeen Proving Ground, MD 21010, Vol/p/yr: NX#, 5768

Skin corrosion/irritation, Skin sensitization, Skin, Rabbit, 0.000 , Mild.

Results:

Sense Organs and Special Senses (Nose, Eye, Ear, and Taste): Eye: Lacrimation.

Behavioral: Tremor.

Lungs, Thorax, or Respiration: Cyanosis.

CAS# 156-60-5:

Reproductive Effects: TClO, Inhalation, Rat, 6000. PPM, 6 H, female 7-16 day(s) after conception.

Results:

Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants).

- Fundamental and Applied Toxicology., Academic Press, Inc., 1 E. First St., Duluth, MN 55802, Vol/p/yr: 20,225, 1993

Reproductive Effects: TClO, Inhalation, Rat, 12000. PPM, 6 H, female 7-16 day(s) after conception.

Results:

Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants).

Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus).

- Fundamental and Applied Toxicology., Academic Press, Inc., 1 E. First St., Duluth, MN 55802, Vol/p/yr: 20,225, 1993

Mutagenicity: Mutation test: Mutation in microorganisms., 50.00 UG/PLAT, Bacteria - Salmonella typhimurium.,

Results:

Behavioral: Sleep.

Behavioral: Hallucinations, distorted perceptions.

- Toxicological and Environmental Chemistry., Gordon & Breach Science Pub. Inc., New York, NY, Vol/p/yr: 15,101, 1987



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Mutagenicity:, Gene conversion and mitotic recombination., 80.00 MMOL/L,  
Saccharomyces cerevisiae.

Results:

Behavioral: Coma.

Lungs, Thorax, or Respiration:Dyspnea.

Nutritional and Gross Metabolic:Changes in:Metabolic acidosis.

- Teratogenesis, Carcinogenesis, and Mutagenesis., Alan R. Liss, Inc., 41 E. 11th St.,  
New York, NY 10003, Vol/p/yr: 4,365, 1984

Mutagenicity:, Mutation test: DNA damage., 22.00 MMOL/L, Saccharomyces cerevisiae.

Results:

Behavioral: Coma.

Vascular: BP lowering not characterized in autonomic section.

Nutritional and Gross Metabolic:Changes in:Metabolic acidosis.

- Mutation Research., Elsevier Science Pub. B.V., POB 211, 1000 AE, Amsterdam  
Netherlands, Vol/p/yr: 206,209, 1988

Mutagenicity:, Sex chromosome loss and nondisjunction, 51500. UMOL/L,  
Saccharomyces cerevisiae.

Results:

Gastrointestinal:Nausea or vomiting.

- Mutation Research., Elsevier Science Pub. B.V., POB 211, 1000 AE, Amsterdam  
Netherlands, Vol/p/yr: 206,209, 1988

Mutagenicity:, Sex chromosome loss and nondisjunction, Species: Hamster, 6500.  
UMOL/L, Cell Type: lung..

Results:

Sense Organs and Special Senses (Nose, Eye, Ear, and Taste):Olfaction:Other  
changes.

Sense Organs and Special Senses (Nose, Eye, Ear, and Taste):Eye:Other.

Lungs, Thorax, or Respiration:Other changes.

- Mutation Research., Elsevier Science Pub. B.V., POB 211, 1000 AE, Amsterdam  
Netherlands, Vol/p/yr: 182,135, 1987

Other Studies:, TDLo, Oral, Rat, 113.0 GM/KG, 90 D.

Results:

Kidney, Ureter, Bladder: Changes in bladder weight.

- Journal of the American College of Toxicology., Mary Ann Liebert, Inc., New York, NY,  
Vol/p/yr: 6(4),471, 1987

Other Studies:, TCLo, Inhalation, Rat, 200.0 PPM, 8 W.

Results:

Lungs, Thorax, or Respiration:Other changes.

Liver: Other changes.

Endocrine: Changes in endocrine weight (unspecified).

- Toxicology., Elsevier Scientific Pub. Ireland, Ltd., POB 85, Limerick Ireland, Vol/p/yr:  
7(2),141, 1977

Acute toxicity, TCLo, Inhalation, Human, 4800. MG/M3, 10 M.

Results:

Behavioral: Sleep.

Behavioral: Hallucinations, distorted perceptions.



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- Archiv fuer Hygiene und Bakteriologie., For publisher information, see ZHPMAT, Munich Fed. Rep. Ger., Vol/p/yr: 116,131, 1936

Acute toxicity, LD50, Oral, Rat, 1235. MG/KG.

Results:

Cardiac:Other changes.

Lungs, Thorax, or Respiration:Other changes.

Liver: Fatty liver degeneration.

- Toxicology., Elsevier Scientific Pub. Ireland, Ltd., POB 85, Limerick Ireland, Vol/p/yr: 7,141, 1977

Acute toxicity, LD50, Intraperitoneal, Rat, 7411. MG/KG.

Results:

Cardiac:Other changes.

Lungs, Thorax, or Respiration:Other changes.

Liver: Fatty liver degeneration.

- Toxicology., Elsevier Scientific Pub. Ireland, Ltd., POB 85, Limerick Ireland, Vol/p/yr: 7,141, 1977

Acute toxicity, LD50, Oral, Mouse, 2122. MG/KG.

Results:

Behavioral: Altered sleep time (including change in righting reflex).

Behavioral: Somnolence (general depressed activity).

Behavioral: Ataxia.

- Drug and Chemical Toxicology., Marcel Dekker, 270 Madison Ave., New York, NY 10016, Vol/p/yr: 8,373, 1985

Acute toxicity, LCLO, Inhalation, Mouse, 75.00 GM/M3, 2 H.

Results:

Behavioral: General anesthetic.

Behavioral: Convulsions or effect on seizure threshold.

Lungs, Thorax, or Respiration:Dyspnea.

- Archiv fuer Hygiene und Bakteriologie., For publisher information, see ZHPMAT, Munich Fed. Rep. Ger., Vol/p/yr: 116,131, 1936

Acute toxicity, LD50, Intraperitoneal, Mouse, 3952. MG/KG.

Results:

Behavioral: General anesthetic.

Behavioral: Convulsions or effect on seizure threshold.

Gastrointestinal:Nausea or vomiting.

- Toxicology., Elsevier Scientific Pub. Ireland, Ltd., POB 85, Limerick Ireland, Vol/p/yr: 7,141, 1977

Acute toxicity, LCLO, Inhalation, Species: Cat, 43.00 GM/M3, 6 H.

Results:

Behavioral: General anesthetic.

Behavioral: Convulsions or effect on seizure threshold.

Gastrointestinal:Nausea or vomiting.

- Archiv fuer Hygiene und Bakteriologie., For publisher information, see ZHPMAT, Munich Fed. Rep. Ger., Vol/p/yr: 116,131, 1936

Acute toxicity, LD50, Skin, Species: Rabbit, > 5.000 GM/KG.

Results:



# SAFETY DATA SHEET

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Skin and Appendages: Skin: After systemic exposure: Dermatitis, irritative.  
Nutritional and Gross Metabolic: Weight loss or decreased weight gain.  
- Acute Toxicity Data. Journal of the American College of Toxicology, Part B., Mary Ann Liebert, Inc., 1651 Third Ave., New York, NY 10128, Vol/p/yr: 1,10, 1990

Standard Draize Test, Skin, Species: Rabbit, 500.0 MG, 24 H.

Results:

Effects on Newborn: Growth statistics (e.g., reduced weight gain).

- Acute Toxicity Data. Journal of the American College of Toxicology, Part B., Mary Ann Liebert, Inc., 1651 Third Ave., New York, NY 10128, Vol/p/yr: 1,11, 1990

Standard Draize Test, Eyes, Species: Rabbit, 10.00 MG.

Results:

Behavioral: Sleep.

Behavioral: Hallucinations, distorted perceptions.

- Acute Toxicity Data. Journal of the American College of Toxicology, Part B., Mary Ann Liebert, Inc., 1651 Third Ave., New York, NY 10128, Vol/p/yr: 1,11, 1990

### Irritation or Corrosion:

Skin - rabbit - Mild skin irritation - 24 h.

Serious eye damage/eye irritation:

Eyes - rabbit - Mild eye irritation.

### Carcinogenicity/Other Information:

Carcinogenicity.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA. CAS# 156-60-5: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
460-73-1	1,1,1,3,3-Pentafluoropropane {HFC-245fa}	n.a.	n.a.	n.a.	n.a.
NA	Halogenated Phosphate	n.a.	n.a.	n.a.	n.a.
156-60-5	Trans-1,2-Dichloroethylene {1,2-trans-Dichloroethylene; Ethene, 1,2-dichloro-, (E)-}	n.a.	n.a.	n.a.	n.a.

## 12. ECOLOGICAL INFORMATION

No data available.

### Persistence and Degradability:

No data available.

### Bioaccumulative Potential:

No data available.

### Mobility in Soil:

No data available.



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### 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Method:** Product.  
Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging.  
Dispose of as unused product. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261. RCRA P-Series: None listed. RCRA U-Series:  
CAS# 156-60-5: waste number U079.

### 14. TRANSPORT INFORMATION

**GHS Classification:** Acute Toxicity: Oral, Category 4 - Warning! Harmful if swallowed  
Acute Toxicity: Skin, Category 5 - Warning! May be harmful in contact with skin  
Skin Corrosion/Irritation, Category 3 - Warning! Causes mild skin irritation  
Serious Eye Damage/Eye Irritation, Category 2B - Warning! Causes eye irritation  
Aquatic Toxicity (Acute), Category 3 - Harmful to aquatic life

#### LAND TRANSPORT (US DOT):

**DOT Proper Shipping Name:** Not Regulated.  
**DOT Hazard Class:**  
**UN/NA Number:**

#### LAND TRANSPORT (Canadian TDG):

**TDG Shipping Name:** Not Regulated.  
**UN Number:**  
**Hazard Class:** **TDG Classification:**

#### MARINE TRANSPORT (IMDG/IMO):

**IMDG/IMO Shipping Name:** Not Regulated.

#### AIR TRANSPORT (ICAO/IATA):

**ICAO/IATA Shipping Name:** Not Regulated.

### 15. REGULATORY INFORMATION

#### EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
460-73-1	1,1,1,3,3-Pentafluoropropane {HFC-245fa}	No	No	No
NA	Halogenated Phosphate	No	No	No
156-60-5	Trans-1,2-Dichloroethylene {1,2-trans-Dichloroethylene; Ethene, 1,2-dichloro-, (E)-}	No	Yes 1000 LB	No

#### CAS # Hazardous Components (Chemical Name)

#### Other US EPA or State Lists

460-73-1	1,1,1,3,3-Pentafluoropropane {HFC-245fa}	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: No; NY Part 597: No; PA HSL: No; SC TAP: No; WI Air: No
NA	Halogenated Phosphate	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory, 8D TERM; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: No; NY Part 597: No; PA HSL: No; SC TAP: No; WI Air: No





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156-60-5 Trans-1,2-Dichloroethylene  
{1,2-trans-Dichloroethylene; Ethene,  
1,2-dichloro-, (E)-}

CAA HAP,ODC: No; CWA NPDES: Yes; TSCA: Yes -  
Inventory; CA PROP.65: No; CA TAC, Title 8: Title 8; MA  
Oil/HazMat: Yes; MI CMR, Part 5: Part 5; NC TAP: No; NJ  
EHS: No; NY Part 597: Yes; PA HSL: Yes - E; SC TAP: No;  
WI Air: No

**CAS # Hazardous Components (Chemical Name)**

460-73-1 1,1,1,3,3-Pentafluoropropane {HFC-245fa}  
NA Halogenated Phosphate  
156-60-5 Trans-1,2-Dichloroethylene  
{1,2-trans-Dichloroethylene; Ethene,  
1,2-dichloro-, (E)-}

**International Regulatory Lists**

Canadian DSL: Yes; Canadian NDSL: No  
Canadian DSL: Yes; Canadian NDSL: No  
Canadian DSL: Yes; Canadian NDSL: No

**Regulatory Information:**

This product contains no chemicals subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 40 CFR part 372.

**Regulatory Information  
Statement:**

### 16. OTHER INFORMATION

**Revision Date:** 04/30/2015

**Additional Information About** No data available.

**This Product:****Company Policy or****Disclaimer:**

While the information and recommendations in this publication are given to the best of our knowledge, and information at the date of publication, nothing herein is to be construed as a warranty, expressed or otherwise. In all cases, it is the responsibility of the user to determine the applicability of such information, and recommendations or the suitability of any product for its own particular purpose.

The product may present hazards and should be used with caution. While certain hazards are described in this Safety Data Sheet, no guarantee is made that these are the only hazards that exist. Hazards, toxicity and behavior of the products may differ when used with other materials and are dependent upon the manufacturing circumstances or other processes. Such hazards, toxicity and behavior should be determined by the user and made known to handlers, processors and end users.

NO PERSON OR ORGANIZATION EXCEPT A DULY AUTHORIZED SWD EMPLOYEE SHALL PROVIDE, OR MAKE AVAILABLE, DATA SHEETS FOR SWD PRODUCTS. DATA SHEETS FROM UNAUTHORIZED SOURCES MAY CONTAIN INFORMATION THAT IS NO LONGER CURRENT OR ACCURATE. NO PART OF THIS DATA SHEET MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM, OR BY ANY MEANS, WITHOUT THE WRITTEN PERMISSION OF SWD. ALL REQUESTS FOR PERMISSION TO REPRODUCE MATERIAL FROM THIS DATA SHEET OR QUESTIONS REGARDING THIS DATA SHEET SHOULD BE DIRECTED TO SWD AT 800-828-1394.





# SAFETY DATA SHEET

## Quik-Shield 118 Resin

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### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Code:** QS 118 RESIN  
**Product Name:** Quik-Shield 118 Resin  
**Company Name:** SWD URETHANE  
539 S. Drew St.  
Mesa, AZ 85210,  
**Web site address:** www.swdurethane.com  
**Emergency Contact:** CHEMTREC  
(800) 424-9300

### 2. HAZARDS IDENTIFICATION

**Acute Toxicity: Oral, Category 4**  
**Acute Toxicity: Skin, Category 5**  
**Skin Corrosion/Irritation, Category 3**  
**Serious Eye Damage/Eye Irritation, Category 2B**



**GHS Signal Word:** Warning

**GHS Hazard Phrases:** H302 - Harmful if swallowed.  
H313 - May be harmful in contact with skin.  
H316 - Causes mild skin irritation.  
H320 - Causes eye irritation.  
H402 - Harmful to aquatic life.

**GHS Precaution Phrases:** P264 - Wash hands thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.  
P273 - Avoid release to the environment.

**GHS Response Phrases:**

**GHS Storage and Disposal Phrases:**

**Inhalation:** May be harmful if inhaled. Causes respiratory tract irritation. May cause narcotic effects in high concentration. Eye irritation, vertigo, and nausea were reported in humans exposed at 2200 ppm.

**Skin Contact:** May be harmful if absorbed through the skin. Causes skin irritation. Causes moderate skin irritation. May cause dermatitis.

**Eye Contact:** Causes eye irritation.

**Ingestion:** Harmful if swallowed. May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May cause central nervous system depression.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Hazardous Components (Chemical Name)	Concentration
460-73-1	1,1,1,3,3-Pentafluoropropane {HFC-245fa}	7.0 -13.0 %
NA	Halogenated Phosphate	7.0 -13.0 %
NA	Proprietary Blowing Agent	1.0 -3.0 %



# SAFETY DATA SHEET

## Quik-Shield 118 Resin

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### 4. FIRST AID MEASURES

#### Emergency and First Aid

##### Procedures:

**In Case of Inhalation:** If breathed in, move person into fresh air. If inhaled, remove to fresh air. If not breathing, give artificial respiration. Get medical aid.

**In Case of Skin Contact:** Wash off with soap and plenty of water. Consult a physician. In case of contact, flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical aid if irritation develops and persists. Wash clothing before reuse.

**In Case of Eye Contact:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical aid.

**In Case of Ingestion:** Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician. Get medical aid.

**Signs and Symptoms Of Exposure:** To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**Note to Physician:** Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area. Treat symptomatically and supportively.

### 5. FIRE FIGHTING MEASURES

**Flash Pt:**

**Explosive Limits:** LEL: UEL:

**Autoignition Pt:**

**Suitable Extinguishing Media:** Use water spray, dry chemical, carbon dioxide, or alcohol-resistant foam.

**Fire Fighting Instructions:** Wear self contained breathing apparatus for fire fighting if necessary. As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Vapors may form explosive mixtures with air. Use water spray to keep fire-exposed containers cool. Flammable liquid and vapor. Fire or excessive heat may result in violent rupture of the container due to bulk polymerization. Vapors are heavier than air and may travel to a source of ignition and flash back. Vapors can spread along the ground and collect in low or confined areas.

**Flammable Properties and**

**Hazards:**

**Hazardous Combustion**

**Products:**

### 6. ACCIDENTAL RELEASE MEASURES

**Steps To Be Taken In Case Material Is Released Or Spilled:** Personal precautions.  
Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

Environmental precautions.  
Do not let product enter drains.

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal. Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Remove all sources of ignition. Use a spark-proof tool.



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### 7. HANDLING AND STORAGE

**Precautions To Be Taken in Handling:**

Avoid inhalation of vapor or mist.

Normal measures for preventive fire protection. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Ground and bond containers when transferring material. Use spark-proof tools and explosion proof equipment. Avoid contact with eyes, skin, and clothing. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Avoid ingestion and inhalation. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames. Use only with adequate ventilation. Pure vapor will be uninhibited and may polymerize in vents or other confined spaces.

**Precautions To Be Taken in Storing:**

Keep container tightly closed in a dry and well-ventilated place. Keep away from sources of ignition. Store in a tightly closed container. Flammables-area. Store protected from light and air.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
460-73-1	1,1,1,3,3-Pentafluoropropane {HFC-245fa}			
NA	Halogenated Phosphate			
NA	Proprietary Blowing Agent		TLV: 200 ppm	

**Respiratory Equipment (Specify Type):**

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi- purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

**Eye Protection:**

Face shield and safety glasses. Wear chemical splash goggles.

**Protective Gloves:**

Handle with gloves. Wear appropriate protective gloves to prevent skin exposure.

**Other Protective Clothing:**

Choose body protection according to the amount and concentration of the dangerous substance at the work place. Wear appropriate protective clothing to prevent skin exposure.

**Engineering Controls (Ventilation etc.):**

Use process enclosure, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

**Work/Hygienic/Maintenance Practices:**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.



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### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical States:** [ ] Gas [ X ] Liquid [ ] Solid

**Appearance and Odor:** Viscous.  
Light. Brown.

**pH:**

**Melting Point:**

**Boiling Point:**

**Flash Pt:**

**Evaporation Rate:**

**Flammability (solid, gas):**

**Explosive Limits:** LEL: UEL:

**Vapor Pressure (vs. Air or mm Hg):**

**Vapor Density (vs. Air = 1):**

**Specific Gravity (Water = 1):**

**Solubility in Water:**

**Octanol/Water Partition**

**Coefficient:**

**Autoignition Pt:**

**Decomposition Temperature:**

**Viscosity:**

### 10. STABILITY AND REACTIVITY

**Stability:** Unstable [ ] Stable [ X ]

**Conditions To Avoid -** No data available.

**Instability:** Light, ignition sources, Exposure to air.

**Incompatibility - Materials To Avoid:** No dangerous reaction known under conditions of normal use. Strong bases, Copper.

**Hazardous Decomposition or Byproducts:** formed under fire conditions. Carbon oxides, Phosphorous oxides, Hydrogen chloride gas, Thermal decomposition 244 °C Hydrogen chloride, phosgene, Carbon monoxide.

**Possibility of Hazardous Reactions:** Will occur [ ] Will not occur [ X ]

**Conditions To Avoid -**

**Hazardous Reactions:**



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### 11. TOXICOLOGICAL INFORMATION

#### Toxicological Information:

Epidemiology: No data available.  
Teratogenicity: No data available.  
Reproductive Effects: Mutagenicity: Neurotoxicity: Other Studies:  
CAS# NA:  
Acute toxicity, LD50, Oral, Rat, 3600. MG/KG.  
Results:  
Behavioral: Somnolence (general depressed activity).  
Behavioral: Tremor.  
Lungs, Thorax, or Respiration: Other changes.  
- National Technical Information Service, Vol/p/yr: OTS05, 7713

Acute toxicity, LD50, Intravenous, Mouse, 56.00 MG/KG.

Results:

Behavioral: Food intake (animal).

Nutritional and Gross Metabolic: Weight loss or decreased weight gain.

- U.S. Army Armament Research & Development Command, Chemical Systems Laboratory, NIOSH Exchange Chemicals., Aberdeen Proving Ground., Aberdeen Proving Ground, MD 21010, Vol/p/yr: NX#, 5768

Skin corrosion/irritation, Skin sensitization, This product does not contain any relevant quantities of materials with critical values that have to be monitored in the workplace., Rabbit, 0.000, Mild.

Results:

Sense Organs and Special Senses (Nose, Eye, Ear, and Taste): Eye: Lacrimation.

Behavioral: Tremor.

Lungs, Thorax, or Respiration: Cyanosis.

#### Irritation or Corrosion:

Skin - rabbit - Mild skin irritation - 24 h.

Serious eye damage/eye irritation:

Eyes - rabbit - Mild eye irritation.

#### Carcinogenicity/Other Information:

Carcinogenicity.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA. CAS# 156-60-5: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
460-73-1	1,1,1,3,3-Pentafluoropropane {HFC-245fa}				
NA	Halogenated Phosphate				
NA	Proprietary Blowing Agent				



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### 12. ECOLOGICAL INFORMATION

**Persistence and** No data available.

**Degradability:**

**Bioaccumulative Potential:** No data available.

**Mobility in Soil:** No data available.

### 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Method:** Product.

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging.

Dispose of as unused product. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261. RCRA P-Series: None listed. RCRA U-Series:

CAS# 156-60-5: waste number U079.

### 14. TRANSPORT INFORMATION

**GHS Classification:** Acute Toxicity: Oral, Category 4 - Warning! Harmful if swallowed  
Acute Toxicity: Skin, Category 5 - Warning! May be harmful in contact with skin  
Skin Corrosion/Irritation, Category 3 - Warning! Causes mild skin irritation  
Serious Eye Damage/Eye Irritation, Category 2B - Warning! Causes eye irritation  
Aquatic Toxicity (Acute), Category 3 - Harmful to aquatic life

**LAND TRANSPORT (US DOT):**

**DOT Proper Shipping Name:** Not Regulated.

**DOT Hazard Class:**

**UN/NA Number:**

**LAND TRANSPORT (Canadian TDG):**

**TDG Shipping Name:** Not Regulated.

**UN Number:**

**Hazard Class:**

**TDG Classification:**

**MARINE TRANSPORT (IMDG/IMO):**

**IMDG/IMO Shipping Name:** Not Regulated.

**AIR TRANSPORT (ICAO/IATA):**

**ICAO/IATA Shipping Name:** Not Regulated.

### 15. REGULATORY INFORMATION

**EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists**

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
460-73-1	1,1,1,3,3-Pentafluoropropane {HFC-245fa}	No	No	No
NA	Halogenated Phosphate	No	No	No
NA	Proprietary Blowing Agent	No	No	No

**CAS #** **Hazardous Components (Chemical Name)**

**Other US EPA or State Lists**

460-73-1 1,1,1,3,3-Pentafluoropropane {HFC-245fa}

CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: No; NY Part 597: No; PA HSL: No; SC TAP: No; WI Air: No  
CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes -

NA Halogenated Phosphate



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NA Proprietary Blowing Agent

Inventory, 8D TERM; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: No; NY Part 597: No; PA HSL: No; SC TAP: No; WI Air: No

CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: No; NY Part 597: No; PA HSL: No; SC TAP: No; WI Air: No

**CAS # Hazardous Components (Chemical Name)**

460-73-1 1,1,1,3,3-Pentafluoropropane {HFC-245fa}

NA Halogenated Phosphate

NA Proprietary Blowing Agent

**International Regulatory Lists**

Canadian DSL: Yes; Canadian NDSL: No

Canadian DSL: Yes; Canadian NDSL: No

Canadian DSL: No; Canadian NDSL: No

**Regulatory Information:**

This product contains no chemicals subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 40 CFR part 372.

**Regulatory Information Statement:**

### 16. OTHER INFORMATION

Revision Date: 04/30/2015

**Additional Information About****This Product:****Company Policy or****Disclaimer:**

While the information and recommendations in this publication are given to the best of our knowledge, and information at the date of publication, nothing herein is to be construed as a warranty, expressed or otherwise. In all cases, it is the responsibility of the user to determine the applicability of such information, and recommendations or the suitability of any product for its own particular purpose.

The product may present hazards and should be used with caution. While certain hazards are described in this Safety Data Sheet, no guarantee is made that these are the only hazards that exist. Hazards, toxicity and behavior of the products may differ when used with other materials and are dependent upon the manufacturing circumstances or other processes. Such hazards, toxicity and behavior should be determined by the user and made known to handlers, processors and end users.

NO PERSON OR ORGANIZATION EXCEPT A DULY AUTHORIZED SWD EMPLOYEE SHALL PROVIDE, OR MAKE AVAILABLE, DATA SHEETS FOR SWD PRODUCTS. DATA SHEETS FROM UNAUTHORIZED SOURCES MAY CONTAIN INFORMATION THAT IS NO LONGER CURRENT OR ACCURATE. NO PART OF THIS DATA SHEET MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM, OR BY ANY MEANS, WITHOUT THE WRITTEN PERMISSION OF SWD. ALL REQUESTS FOR PERMISSION TO REPRODUCE MATERIAL FROM THIS DATA SHEET OR QUESTIONS REGARDING THIS DATA SHEET SHOULD BE DIRECTED TO SWD AT 800-828-1394.





# SAFETY DATA SHEET

## Quik-Shield A

Printed: 04/29/2015

Revision: 04/28/2015

Supersedes Revision: 02/03/2014

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Code:** QS A  
**Product Name:** Quik-Shield A  
**Company Name:** SWD URETHANE  
539 S. Drew St.  
Mesa, AZ 85210,  
**Web site address:** www.swdurethane.com  
**Emergency Contact:** CHEMTREC  
(800) 424-9300

### 2. HAZARDS IDENTIFICATION

**Acute Toxicity: Oral, Category 5**  
**Skin Corrosion/Irritation, Category 2**  
**Skin Sensitization, Category 1**  
**Serious Eye Damage/Eye Irritation, Category 2B**  
**Acute Toxicity: Inhalation, Category 4**  
**Respiratory Sensitization, Category 1**  
**Carcinogenicity, Category 2**  
**Aquatic Toxicity (Acute), Category 2**



**GHS Signal Word:** Danger

**GHS Hazard Phrases:** H303 - May be harmful if swallowed.  
H315 - Causes skin irritation.  
H317 - May cause an allergic skin reaction.  
H320 - Causes eye irritation.  
H332 - Harmful if inhaled.  
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H351 - Suspected of causing cancer .  
H401 - Toxic to aquatic life.

**GHS Precaution Phrases:** P201 - Obtain special instructions before use.  
P202 - Do not handle until all safety precautions have been read and understood.  
P260 - Do not breathe dust/fume/gas/mist/vapors/spray.  
P264 - Wash hands thoroughly after handling.  
P271 - Use only outdoors or in a well-ventilated area.  
P272 - Contaminated work clothing should not be allowed out of the workplace.  
P273 - Avoid release to the environment.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P284 - Wear respiratory protection .  
P285 - In case of inadequate ventilation wear respiratory protection.

**GHS Response Phrases:** P302+352 - IF ON SKIN: Wash with plenty of soap and water.  
P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P341 - If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.  
P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308+313 - IF exposed or concerned: Get medical attention/advice.  
P332+313 - If skin irritation occurs, get medical advice/attention.



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**GHS Storage and Disposal Phrases:**

P337+313 - If eye irritation persists, get medical advice/attention.  
P342+311 - If experiencing respiratory symptoms call a POISON CENTER or doctor/physician.  
P362 - Take off contaminated clothing and wash before re-use.  
P405 - Store locked up.

### Potential Health Effects (Acute and Chronic):

**Inhalation:** Causes respiratory tract irritation.  
**Skin Contact:** May be harmful if absorbed through the skin. Causes skin irritation.  
**Eye Contact:** Causes eye irritation.  
**Ingestion:** May be harmful if swallowed.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Hazardous Components (Chemical Name)	Concentration
101-68-8	Methylenebis(phenylisocyanate) {MBI; Methylene diphenyl diisocyanate; MDI; Diphenylmethane-4,4'-diisocyanate}	30.0 -60.0 %
NA	MDI, mixed isomers	30.0 -60.0 %

## 4. FIRST AID MEASURES

### Emergency and First Aid

#### Procedures:

**In Case of Inhalation:** If breathed in, move person into fresh air. If not breathing give artificial respiration.  
**In Case of Skin Contact:** Wash off with soap and plenty of water. Consult a physician.  
**In Case of Eye Contact:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.  
**In Case of Ingestion:** Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**Signs and Symptoms Of Exposure:** Cough, Shortness of breath, Headache. Nausea. Vomiting, Pulmonary edema. Effects may be delayed.

**Note to Physician:** Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

## 5. FIRE FIGHTING MEASURES

**Flash Pt:** > 150.00 C Method Used: Closed Cup  
**Explosive Limits:** LEL: No data. UEL: No data.  
**Autoignition Pt:** NA  
**Suitable Extinguishing Media:** Use water spray, dry chemical, carbon dioxide, or alcohol-resistant foam.  
**Fire Fighting Instructions:** Wear self contained breathing apparatus for fire fighting if necessary.  
**Flammable Properties and Hazards:** No data available.



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### 6. ACCIDENTAL RELEASE MEASURES

<b>Steps To Be Taken In Case Material Is Released Or Spilled:</b>	Personal precautions. Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation. Environmental precautions. Do not let product enter drains.  Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.
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### 7. HANDLING AND STORAGE

<b>Precautions To Be Taken in Handling:</b>	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.
<b>Precautions To Be Taken in Storing:</b>	Keep container tightly closed in a dry and well-ventilated place. Recommended storage temperature: 15 - 38 deg.C. Store under inert gas. Moisture sensitive.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
101-68-8	Methylenebis(phenylisocyanate) {MBI; Methylene diphenyl diisocyanate; MDI; Diphenylmethane-4,4'-diisocyanate}	CEIL: 0.02 ppm	TLV: 0.005 ppm	No data.
NA	MDI, mixed isomers	No data.	No data.	No data.
<b>Respiratory Equipment (Specify Type):</b>	Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).			
<b>Eye Protection:</b>	Face shield and safety glasses.			
<b>Protective Gloves:</b>	Handle with gloves.			
<b>Other Protective Clothing:</b>	Choose body protection according to the amount and concentration of the dangerous substance at the work place.			
<b>Engineering Controls (Ventilation etc.):</b>	No data available.			
<b>Work/Hygienic/Maintenance Practices:</b>	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.			



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<b>Physical States:</b>	[ ] Gas	[ X ] Liquid	[ ] Solid
<b>Appearance and Odor:</b>	Slightly. Musty.		
<b>Melting Point:</b>	42.00 C - 45.00 C		
<b>Boiling Point:</b>	200.00 C		
<b>Autoignition Pt:</b>	NA		
<b>Flash Pt:</b>	> 150.00 C Method Used: Closed Cup		
<b>Explosive Limits:</b>	LEL: No data.		UEL: No data.
<b>Specific Gravity (Water = 1):</b>	No data.		
<b>Density:</b>	1.18 G/CM3		
<b>Vapor Pressure (vs. Air or mm Hg):</b>	No data.		
<b>Vapor Density (vs. Air = 1):</b>	No data.		
<b>Evaporation Rate:</b>	No data.		
<b>Solubility in Water:</b>	No data.		
<b>Percent Volatile:</b>	No data.		

<b>Stability:</b>	Unstable [ ]      Stable [ X ]
<b>Conditions To Avoid - Instability:</b>	Contact with moisture, other materials that react with isocyanates, or temperatures above 350 °F (177 °C), may cause polymerization.
<b>Incompatibility - Materials To Avoid:</b>	Water. Amines, Strong bases, Alcohols.
<b>Hazardous Decomposition or Byproducts:</b>	formed under fire conditions. Carbon oxides, nitrogen oxides (NOx).
<b>Possibility of Hazardous Reactions:</b>	Will occur [ ]      Will not occur [ X ]
<b>Conditions To Avoid - Hazardous Reactions:</b>	No data available.

<b>Toxicological Information:</b>	No data available.
<b>Irritation or Corrosion:</b>	Serious eye damage/eye irritation: Eyes - rabbit - Moderate eye irritation.
<b>Carcinogenicity/Other Information:</b>	Carcinogenicity. This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.  Limited evidence of carcinogenicity in animal studies. IARC: Group 3: Not classifiable as to its carcinogenicity to humans 3. ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.



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CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
101-68-8	Methylenebis(phenylisocyanate) {MBI; Methylene diphenyl diisocyanate; MDI; Diphenylmethane-4,4'-diisocyanate}	n.a.	3	n.a.	n.a.
NA	MDI, mixed isomers	n.a.	3	n.a.	n.a.

### 12. ECOLOGICAL INFORMATION

	No data available.
<b>Persistence and Degradability:</b>	No data available.
<b>Bioaccumulative Potential:</b>	No data available.
<b>Mobility in Soil:</b>	No data available.

### 13. DISPOSAL CONSIDERATIONS

<b>Waste Disposal Method:</b>	Product. Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.  Contaminated packaging. Dispose of as unused product.
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### 14. TRANSPORT INFORMATION

<b>GHS Classification:</b>	Acute Toxicity: Oral, Category 5 - Warning! May be harmful if swallowed Skin Corrosion/Irritation, Category 2 - Warning! Causes skin irritation Skin Sensitization, Category 1 - Warning! May cause an allergic skin reaction Serious Eye Damage/Eye Irritation, Category 2B - Warning! Causes eye irritation Acute Toxicity: Inhalation, Category 4 - Warning! Harmful if inhaled Respiratory Sensitization, Category 1 - Danger! May cause allergy or asthma symptoms or breathing difficulties if inhaled Carcinogenicity, Category 2 - Warning! Suspected of causing cancer Aquatic Toxicity (Acute), Category 2 - Toxic to aquatic life
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#### LAND TRANSPORT (US DOT):

<b>DOT Proper Shipping Name:</b>	Other regulated substances, Liquid, N.O.S. (Methylene Diphenyl Diisocyanate)		
<b>DOT Hazard Class:</b>	9	CLASS 9	
<b>UN/NA Number:</b>	NA3082	<b>Packing Group:</b>	III



#### LAND TRANSPORT (Canadian TDG):

<b>TDG Shipping Name:</b>	Not Regulated.		
<b>UN Number:</b>	3082	<b>Packing Group:</b>	III
<b>Hazard Class:</b>	9 - CLASS 9	<b>TDG Classification:</b>	

#### MARINE TRANSPORT (IMDG/IMO):

<b>IMDG/IMO Shipping Name:</b>	Not Regulated.
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### AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Not Regulated.

## 15. REGULATORY INFORMATION

### EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
101-68-8	Methylenebis(phenylisocyanate) {MBI; Methylene diphenyl diisocyanate; MDI; Diphenylmethane-4,4'-diisocyanate}	No	Yes 5000 LB	Yes-Cat. N120
NA	MDI, mixed isomers	No	No	Yes-Cat. N120

### CAS # Hazardous Components (Chemical Name)

### Other US EPA or State Lists

101-68-8	Methylenebis(phenylisocyanate) {MBI; Methylene diphenyl diisocyanate; MDI; Diphenylmethane-4,4'-diisocyanate}	CAA HAP, ODC: HAP; CWA NPDES: No; TSCA: Yes - Inventory, 8C; CA PROP.65: No; CA TAC, Title 8: TAC, Title 8; MA Oil/HazMat: No; MI CMR, Part 5: Part 5; NC TAP: Yes; NJ EHS: Yes - 1253; NY Part 597: Yes; PA HSL: Yes - E; SC TAP: Yes; WI Air: Yes
NA	MDI, mixed isomers	CAA HAP, ODC: No; CWA NPDES: No; TSCA: Yes - Inventory, 8C, 8D TERM; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: Yes; NY Part 597: No; PA HSL: No; SC TAP: No; WI Air: No

### CAS # Hazardous Components (Chemical Name)

### International Regulatory Lists

101-68-8	Methylenebis(phenylisocyanate) {MBI; Methylene diphenyl diisocyanate; MDI; Diphenylmethane-4,4'-diisocyanate}	Canadian DSL: Yes; Canadian NDSL: No
NA	MDI, mixed isomers	Canadian DSL: Yes; Canadian NDSL: No

### Regulatory Information:

This product contains chemicals subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR part 372.

CAS# 101-68-8, Methylene diphenyl diisocyanate, MDI: 30 - 60%

CAS# n/a, MDI, mixed isomers: 30 - 60%

## 16. OTHER INFORMATION

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Additional Information About No data available.

### This Product:

### Company Policy or

### Disclaimer:

While the information and recommendations in this publication are given to the best of our knowledge, and information at the date of publication, nothing herein is to be construed as a warranty, expressed or otherwise. In all cases, it is the responsibility of the user to determine the applicability of such information, and recommendations or the suitability of any product for its own particular purpose.

The product may present hazards and should be used with caution. While certain hazards are described in this Safety Data Sheet, no guarantee is made that these are the only hazards that exist. Hazards, toxicity and behavior of the products may differ when used with other materials and are dependent upon the manufacturing circumstances or other processes. Such hazards, toxicity and behavior should be determined by the user and made known to handlers, processors and end users.

NO PERSON OR ORGANIZATION EXCEPT A DULY AUTHORIZED SWD EMPLOYEE

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SHALL PROVIDE, OR MAKE AVAILABLE, DATA SHEETS FOR SWD PRODUCTS. DATA SHEETS FROM UNAUTHORIZED SOURCES MAY CONTAIN INFORMATION THAT IS NO LONGER CURRENT OR ACCURATE. NO PART OF THIS DATA SHEET MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM, OR BY ANY MEANS, WITHOUT THE WRITTEN PERMISSION OF SWD. ALL REQUESTS FOR PERMISSION TO REPRODUCE MATERIAL FROM THIS DATA SHEET OR QUESTIONS REGARDING THIS DATA SHEET SHOULD BE DIRECTED TO SWD AT 800-828-1394.





# SAFETY DATA SHEET

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### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Code:** QS 125 B  
**Product Name:** Quik-Shield 125 B  
**Company Name:** SWD URETHANE  
539 S. Drew St.  
Mesa, AZ 85210,  
**Web site address:** www.swdurethane.com  
**Emergency Contact:** CHEMTREC  
(800) 424-9300

### 2. HAZARDS IDENTIFICATION

**Acute Toxicity: Oral, Category 4**  
**Acute Toxicity: Skin, Category 5**  
**Skin Corrosion/Irritation, Category 3**  
**Serious Eye Damage/Eye Irritation, Category 2B**  
**Aquatic Toxicity (Acute), Category 3**



**GHS Signal Word:** Warning

**GHS Hazard Phrases:** H302 - Harmful if swallowed.  
H313 - May be harmful in contact with skin.  
H316 - Causes mild skin irritation.  
H320 - Causes eye irritation.  
H402 - Harmful to aquatic life.

**GHS Precaution Phrases:** P264 - Wash hands thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.  
P273 - Avoid release to the environment.

**GHS Response Phrases:** No phrases apply.

**GHS Storage and Disposal Phrases:** No phrases apply.

**Potential Health Effects (Acute and Chronic):**

**Inhalation:** Causes respiratory tract irritation. Harmful if inhaled. May cause narcotic effects in high concentration. May cause lung damage. May cause anemia. May cause central nervous system effects such as nausea and headache.

**Skin Contact:** Causes skin irritation. Harmful if absorbed through the skin. Substance is rapidly absorbed through the skin. Causes symptoms similar to those of inhalation. A skin notation is not recommended by ACGIH, based on estimates from physiologically based pharmacokinetic models which indicate that, even in worst-case dermal-exposure scenarios, 2-butoxyethanol is not absorbed in amounts sufficient to cause red blood cell hemolysis in humans.

**Eye Contact:** Causes eye irritation. Causes eye irritation. Causes redness and pain. Contact with eyes may cause severe irritation, and possible eye burns. Lachrymator (substance which increases the flow of tears).

**Ingestion:** Harmful if swallowed. May cause irritation of the digestive tract. May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May cause burns to the digestive tract.



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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Hazardous Components (Chemical Name)	Concentration
NA	Halogenated Phosphate	10.0 -20.0 %
460-73-1	1,1,1,3,3-Pentafluoropropane {HFC-245fa}	5.0 -10.0 %
NA	Glycol ether	< 5.0 %
NA	Amine catalyst	< 3.0 %

### 4. FIRST AID MEASURES

#### Emergency and First Aid

##### Procedures:

<b>In Case of Inhalation:</b>	If breathed in, move person into fresh air. Get medical aid immediately. Remove from exposure and move to fresh air immediately. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If not breathing, give artificial respiration.
<b>In Case of Skin Contact:</b>	Wash off with soap and plenty of water. Consult a physician. Get medical aid immediately. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid. Wash clothing before reuse. Destroy contaminated shoes.
<b>In Case of Eye Contact:</b>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately. Do NOT allow victim to rub eyes or keep eyes closed. Extensive irrigation with water is required (at least 30 minutes).
<b>In Case of Ingestion:</b>	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician. Do NOT induce vomiting. Get medical aid immediately. Call a poison control center.
<b>Signs and Symptoms Of Exposure:</b>	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
<b>Note to Physician:</b>	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area. Treat symptomatically and supportively.

### 5. FIRE FIGHTING MEASURES

<b>Flash Pt:</b>	No data.
<b>Explosive Limits:</b>	LEL: No data. UEL: No data.
<b>Autoignition Pt:</b>	No data.
<b>Suitable Extinguishing Media:</b>	Use water spray, dry chemical, carbon dioxide, or chemical foam. Do NOT get water inside containers. For large fires, use water spray, fog, or alcohol-resistant foam.
<b>Fire Fighting Instructions:</b>	Wear self contained breathing apparatus for fire fighting if necessary. As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Will burn if involved in a fire. Vapors may form explosive mixtures with air. Vapors can travel to a source of ignition and flash back. Containers may explode in the heat of a fire. Flammable liquid and vapor. Vapors may be heavier than air.
<b>Flammable Properties and Hazards:</b>	No data available.



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### 6. ACCIDENTAL RELEASE MEASURES

#### Steps To Be Taken In Case Material Is Released Or Spilled:

Personal precautions.

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

Environmental precautions.

Do not let product enter drains.

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal. Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Wear a self contained breathing apparatus and appropriate personal protection. (See Exposure Controls, Personal Protection section). Remove all sources of ignition. Use a spark-proof tool. Do not let this chemical enter the environment. Do not flush into a sewer. Do not get water inside containers.

### 7. HANDLING AND STORAGE

#### Precautions To Be Taken in Handling:

Avoid inhalation of vapor or mist.

Normal measures for preventive fire protection. Use spark-proof tools and explosion proof equipment. Do not get in eyes, on skin, or on clothing. Keep away from heat, sparks and flame. Do not ingest or inhale. Use only in a chemical fume hood. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse.

Ground and bond containers when transferring material. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep container tightly closed. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames. Use only with adequate ventilation.

#### Precautions To Be Taken in Storing:

Keep container tightly closed in a dry and well-ventilated place. Keep away from sources of ignition. Store in a cool, dry place. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Flammables-area. Store protected from light.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
NA	Halogenated Phosphate	No data.	No data.	No data.
460-73-1	1,1,1,3,3-Pentafluoropropane {HFC-245fa}	No data.	No data.	No data.
NA	Glycol ether	PEL: 50 ppm	TLV: 20 ppm	No data.
NA	Amine catalyst	No data.	No data.	No data.

#### Respiratory Equipment (Specify Type):

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi- purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149.

#### Eye Protection:

Face shield and safety glasses. Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

#### Protective Gloves:

Handle with gloves. Wear appropriate protective gloves to prevent skin exposure.

#### Other Protective Clothing:

Choose body protection according to the amount and concentration of the dangerous



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	substance at the work place. Wear appropriate protective clothing to prevent skin exposure.
<b>Engineering Controls (Ventilation etc.):</b>	Use explosion-proof ventilation equipment. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use only under a chemical fume hood. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.
<b>Work/Hygienic/Maintenance Practices:</b>	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical States:	[ ] Gas	[ X ] Liquid	[ ] Solid
Appearance and Odor:	Viscous. Musty.		
Melting Point:	No data.		
Boiling Point:	No data.		
Autoignition Pt:	No data.		
Flash Pt:	No data.		
Explosive Limits:	LEL: No data.		UEL: No data.
Specific Gravity (Water = 1):	No data.		
Vapor Pressure (vs. Air or mm Hg):	No data.		
Vapor Density (vs. Air = 1):	No data.		
Evaporation Rate:	No data.		
Solubility in Water:	No data.		
Percent Volatile:	No data.		

## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Unstable [ ]	Stable [ X ]
<b>Conditions To Avoid -</b>	No data available.	
<b>Instability:</b>	Incompatible materials, ignition sources.	
<b>Incompatibility - Materials To Avoid:</b>	Strong oxidizing agents, Strong bases, Aluminum, Copper, Copper alloys, Zinc, acids.	
<b>Hazardous Decomposition or Byproducts:</b>	formed under fire conditions. Carbon oxides, Phosphorous oxides, Hydrogen chloride gas, Thermal decomposition 244 °C Carbon monoxide, Nitrogen oxides, Carbon dioxide.	
<b>Possibility of Hazardous Reactions:</b>	Will occur [ ]	Will not occur [ X ]
<b>Conditions To Avoid - Hazardous Reactions:</b>	No data available.	



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### 11. TOXICOLOGICAL INFORMATION

<b>Toxicological Information:</b>	Epidemiology: No information found. Teratogenicity: No information available. Mutagenicity: Neurotoxicity: No information available. Other Studies: CAS# NA: Acute toxicity, LD50, Oral, Rat, 3600. MG/KG. Results: Behavioral: Somnolence (general depressed activity). Behavioral: Tremor. Lungs, Thorax, or Respiration: Other changes. - National Technical Information Service, Vol/p/yr: OTS05, 7713  Acute toxicity, LD50, Intravenous, Mouse, 56.00 MG/KG. Results: Behavioral: Food intake (animal). Nutritional and Gross Metabolic: Weight loss or decreased weight gain. - U.S. Army Armament Research & Development Command, Chemical Systems Laboratory, NIOSH Exchange Chemicals., Aberdeen Proving Ground., Aberdeen Proving Ground, MD 21010, Vol/p/yr: NX#, 5768  Skin corrosion/irritation, Skin sensitization, Skin, Rabbit, 0.000 , Mild. Results: Sense Organs and Special Senses (Nose, Eye, Ear, and Taste): Eye: Lacrimation. Behavioral: Tremor. Lungs, Thorax, or Respiration: Cyanosis.
	<b>Irritation or Corrosion:</b> Skin - rabbit - Mild skin irritation - 24 h. Serious eye damage/eye irritation: Eyes - rabbit - Mild eye irritation.
	<b>Carcinogenicity/Other Information:</b> Carcinogenicity. IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA. CAS# 111-76-2: ACGIH: A3 - Confirmed animal carcinogen with unknown relevance to humans. California: Not listed. NTP: Not listed. IARC: Not listed. CAS# 108-01-0: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
NA	Halogenated Phosphate	n.a.	n.a.	n.a.	n.a.
460-73-1	1,1,1,3,3-Pentafluoropropane {HFC-245fa}	n.a.	n.a.	n.a.	n.a.
NA	Glycol ether	n.a.	3	A3	n.a.
NA	Amine catalyst	n.a.	n.a.	n.a.	n.a.



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### 12. ECOLOGICAL INFORMATION

#### General Ecological Information:

Environmental: TERRESTRIAL FATE: Based on a recommended classification scheme, an estimated Koc value of 67,, determined from an experimental log Kow and a recommended regression-derived equation, indicates that ethylene glycol mono-n-butyl ether is expected to have high mobility in soil. An estimated BCF value of 2.5 was calculated for ethylene glycol mono-n-butyl ether, using an experimental log Kow of 0.83 and a recommended regression-derived equation. According to a recommended classification scheme, this BCF value suggests that bioconcentration in aquatic organisms is low.

Physical: No information found.

Other: An estimated BCF value of 2.5,, from an experimental log Kow, suggests that ethylene glycol mono-n-butyl ether bioconcentration in aquatic organisms will be low, according to a recommended classification scheme.

#### Persistence and Degradability:

No data available.

#### Bioaccumulative Potential:

No data available.

#### Mobility in Soil:

No data available.

### 13. DISPOSAL CONSIDERATIONS

#### Waste Disposal Method:

Product.

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging.

Dispose of as unused product. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261. RCRA P-Series: None listed. RCRA U-Series: None listed.

### 14. TRANSPORT INFORMATION

#### GHS Classification:

Acute Toxicity: Oral, Category 4 - Warning! Harmful if swallowed

Acute Toxicity: Skin, Category 5 - Warning! May be harmful in contact with skin

Skin Corrosion/Irritation, Category 3 - Warning! Causes mild skin irritation

Serious Eye Damage/Eye Irritation, Category 2B - Warning! Causes eye irritation

Aquatic Toxicity (Acute), Category 3 - Harmful to aquatic life

#### LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Not Regulated.

DOT Hazard Class:

UN/NA Number:

#### LAND TRANSPORT (Canadian TDG):

TDG Shipping Name: Not Regulated.

UN Number:

Hazard Class:

TDG Classification:

#### MARINE TRANSPORT (IMDG/IMO):

IMDG/IMO Shipping Name: Not Regulated.

#### AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Not Regulated.



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### 15. REGULATORY INFORMATION

#### EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
NA	Halogenated Phosphate	No	No	No
460-73-1	1,1,1,3,3-Pentafluoropropane {HFC-245fa}	No	No	No
NA	Glycol ether	No	No	Yes-Cat. N230
NA	Amine catalyst	No	No	No

#### CAS # Hazardous Components (Chemical Name)

#### Other US EPA or State Lists

NA	Halogenated Phosphate	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory, 8D TERM; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: No; NY Part 597: No; PA HSL: No; SC TAP: No; WI Air: No
460-73-1	1,1,1,3,3-Pentafluoropropane {HFC-245fa}	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: No; NY Part 597: No; PA HSL: No; SC TAP: No; WI Air: No
NA	Glycol ether	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: TAC, Title 8; MA Oil/HazMat: Yes; MI CMR, Part 5: Part 5; NC TAP: Yes - Cat.; NJ EHS: Yes; NY Part 597: No; PA HSL: Yes - 1; SC TAP: Yes - Cat.; WI Air: Yes
NA	Amine catalyst	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: Yes; MI CMR, Part 5: No; NC TAP: No; NJ EHS: Yes; NY Part 597: No; PA HSL: Yes - 1; SC TAP: No; WI Air: No

#### CAS # Hazardous Components (Chemical Name)

#### International Regulatory Lists

NA	Halogenated Phosphate	Canadian DSL: Yes; Canadian NDSSL: No
460-73-1	1,1,1,3,3-Pentafluoropropane {HFC-245fa}	Canadian DSL: Yes; Canadian NDSSL: No
NA	Glycol ether	Canadian DSL: Yes; Canadian NDSSL: No
NA	Amine catalyst	Canadian DSL: Yes; Canadian NDSSL: No

#### Regulatory Information:

This product contains chemicals subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR part 372.

CAS# n/a, Glycol Ether: <5.0%





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### 16. OTHER INFORMATION

**Revision Date:** 04/30/2015

**Additional Information About This Product:** No data available.

**This Product:**

**Company Policy or**

**Disclaimer:**

While the information and recommendations in this publication are given to the best of our knowledge, and information at the date of publication, nothing herein is to be construed as a warranty, expressed or otherwise. In all cases, it is the responsibility of the user to determine the applicability of such information, and recommendations or the suitability of any product for its own particular purpose.

The product may present hazards and should be used with caution. While certain hazards are described in this Safety Data Sheet, no guarantee is made that these are the only hazards that exist. Hazards, toxicity and behavior of the products may differ when used with other materials and are dependent upon the manufacturing circumstances or other processes. Such hazards, toxicity and behavior should be determined by the user and made known to handlers, processors and end users.

NO PERSON OR ORGANIZATION EXCEPT A DULY AUTHORIZED SWD EMPLOYEE SHALL PROVIDE, OR MAKE AVAILABLE, DATA SHEETS FOR SWD PRODUCTS. DATA SHEETS FROM UNAUTHORIZED SOURCES MAY CONTAIN INFORMATION THAT IS NO LONGER CURRENT OR ACCURATE. NO PART OF THIS DATA SHEET MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM, OR BY ANY MEANS, WITHOUT THE WRITTEN PERMISSION OF SWD. ALL REQUESTS FOR PERMISSION TO REPRODUCE MATERIAL FROM THIS DATA SHEET OR QUESTIONS REGARDING THIS DATA SHEET SHOULD BE DIRECTED TO SWD AT 800-828-1394.



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according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 1272/2008

### SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE

- 1.1 Product Code:** QS 450 B  
**Product Name:** Quik-Shield 450 B
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**
- 1.3 Details of the Supplier of the Safety Data Sheet:**
- Company Name:** SWD URETHANE  
539 S. Drew St.  
Mesa, AZ 85210,  
**Web site address:** www.swdurethane.com
- 1.4 Emergency telephone number:**  
**Emergency Contact:** CHEMTREC  
(800) 424-9300

### SECTION 2. HAZARDS IDENTIFICATION

- 2.1 Classification of the Substance or Mixture:**
- 2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]:**  
**Acute Toxicity: Oral, Category 4**  
**Acute Toxicity: Skin, Category 5**  
**Skin Corrosion/Irritation, Category 3**  
**Serious Eye Damage/Eye Irritation, Category 2B**  
**Aquatic Toxicity (Acute), Category 3**
- 2.1.2 Classification according to Directive 1999/45/EC:**  
**Xn: Harmful**  
**F: Highly Flammable**  
**Risk Phrases: R11, R20, R52/53**  
**For full text of R- phrases: see SECTION 15.**
- 2.2 Label Elements:**
- 2.2.1 Labeling according to Regulation (EC) No 1272/2008 [CLP]:**

**GHS Signal Word:** Warning**GHS Hazard Phrases:**

H302 - Harmful if swallowed.  
H313 - May be harmful in contact with skin.  
H316 - Causes mild skin irritation.  
H320 - Causes eye irritation.  
H402 - Harmful to aquatic life.



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**GHS Precaution Phrases:**

P264 - Wash hands thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

P273 - Avoid release to the environment.

**GHS Response Phrases:**

No phrases apply.

**GHS Storage and Disposal Phrases:**

No phrases apply.

**2.2.2 Labeling according to Directive 1999/45/EC:****Xn****F****2.3 Adverse Human Health****Effects and Symptoms:**

- 2.3.1 Inhalation:** May be harmful if inhaled. Causes respiratory tract irritation. May cause narcotic effects in high concentration. Eye irritation, vertigo, and nausea were reported in humans exposed at 2200 ppm.
- 2.3.2 Skin Contact:** May be harmful if absorbed through the skin. Causes skin irritation. Causes moderate skin irritation. May cause dermatitis.
- 2.3.3 Eye Contact:** Causes eye irritation. Causes moderate eye irritation.
- 2.3.4 Ingestion:** Harmful if swallowed. May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May cause central nervous system depression.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Hazardous Components (Chemical Name)/ REACH Registration No.	Concentration	EC No./ EC Index No.	Risk Phrases/ GHS Classification
460-73-1	1,1,1,3,3-Pentafluoropropane {HFC-245fa}	0.0 -13.0 %	NA NA	No phrases apply. Eye Damage 2A: H319
NA	Halogenated Phosphate	7.0 -13.0 %	NA NA	No phrases apply. Acute Tox.(O) 4: H302
NA	Halogenated polyester	< 7.0 %	NA NA	No phrases apply. Aquatic (C) 3: H412
156-60-5	Trans-1,2-Dichloroethylene {1,2-trans-Dichloroethylene; Ethene, 1,2-dichloro-, (E)-}	1.0 -3.0 %	205-860-2 602-026-00-3	F;Xn; R11-20-52/53 Flam. Liq. 2: H225 Acute Tox.(I) 4: H332 Aquatic (C) 3: H412



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### SECTION 4. FIRST AID MEASURES

#### 4.1 Description of First Aid

##### Measures:

**In Case of Inhalation:** If breathed in, move person into fresh air. If inhaled, remove to fresh air. If not breathing, give artificial respiration. Get medical aid.

**In Case of Skin Contact:** Wash off with soap and plenty of water. Consult a physician. In case of contact, flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical aid if irritation develops and persists. Wash clothing before reuse.

**In Case of Eye Contact:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical aid.

**In Case of Ingestion:** Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician. Get medical aid.

**4.2 Important Symptoms and Effects, Both Acute and Delayed:** To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

##### Note for the Doctor:

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area. Treat symptomatically and supportively.

### SECTION 5. FIRE FIGHTING MEASURES

**5.1 Suitable Extinguishing Media:** Use water spray, dry chemical, carbon dioxide, or alcohol-resistant foam.

**5.2 Flammable Properties and Hazards:** No data available.

**Flash Pt:** No data.

**Explosive Limits:** LEL: No data. UEL: No data.

**Autoignition Pt:** No data.

**5.3 Fire Fighting Instructions:** Wear self contained breathing apparatus for fire fighting if necessary. As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Vapors may form explosive mixtures with air. Use water spray to keep fire-exposed containers cool. Flammable liquid and vapor. Fire or excessive heat may result in violent rupture of the container due to bulk polymerization. Vapors are heavier than air and may travel to a source of ignition and flash back. Vapors can spread along the ground and collect in low or confined areas.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

**6.1 Protective Precautions,** No data available.

#### Protective Equipment and Emergency Procedures:

**6.2 Environmental Precautions:** No data available.

**6.3 Methods and Material For Containment and Cleaning Up:** Personal precautions.  
Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.  
Environmental precautions.  
Do not let product enter drains.



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Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal. Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Remove all sources of ignition. Use a spark-proof tool.

### SECTION 7. HANDLING AND STORAGE

- 7.1 Precautions To Be Taken in Handling:** Avoid inhalation of vapor or mist. Normal measures for preventive fire protection. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Ground and bond containers when transferring material. Use spark-proof tools and explosion proof equipment. Avoid contact with eyes, skin, and clothing. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Avoid ingestion and inhalation. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames. Use only with adequate ventilation. Pure vapor will be uninhibited and may polymerize in vents or other confined spaces.
- 7.2 Precautions To Be Taken in Storing:** Keep container tightly closed in a dry and well-ventilated place. Keep away from sources of ignition. Store in a tightly closed container. Flammables-area. Store protected from light and air.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Exposure Parameters:

CAS #	Partial Chemical Name	Britain EH40	France VL	Europe
460-73-1	1,1,1,3,3-Pentafluoropropane {HFC-245fa}	No data.	No data.	No data.
NA	Halogenated Phosphate	No data.	No data.	No data.
NA	Halogenated polyester	No data.	No data.	No data.
156-60-5	Trans-1,2-Dichloroethylene {1,2-trans-Dichloroethylene; Ethene, 1,2-dichloro-, (E)-}	No data.	No data.	No data.
CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
460-73-1	1,1,1,3,3-Pentafluoropropane {HFC-245fa}	No data.	No data.	No data.
NA	Halogenated Phosphate	No data.	No data.	No data.
NA	Halogenated polyester	No data.	No data.	No data.
156-60-5	Trans-1,2-Dichloroethylene {1,2-trans-Dichloroethylene; Ethene, 1,2-dichloro-, (E)-}	No data.	TLV: 200 ppm	No data.

#### 8.2 Exposure Controls:

- 8.2.1 Engineering Controls (Ventilation etc.):** Use process enclosure, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

#### 8.2.2 Personal protection equipment:

- Eye Protection:** Face shield and safety glasses. Wear chemical splash goggles.
- Protective Gloves:** Handle with gloves. Wear appropriate protective gloves to prevent skin exposure.
- Other Protective Clothing:** Choose body protection according to the amount and concentration of the dangerous substance at the work place. Wear appropriate protective clothing to prevent skin exposure.



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**Respiratory Equipment (Specify Type):** Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi- purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149.

**Work/Hygienic/Maintenance Practices:** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.  
No data available.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on Basic Physical and Chemical Properties

**Physical States:** [ ] Gas [ X ] Liquid [ ] Solid  
**Appearance and Odor:** Viscous.  
Musty.  
**Melting Point:** No data.  
**Boiling Point:** No data.  
**Flash Pt:** No data.  
**Evaporation Rate:** No data.  
**Explosive Limits:** LEL: No data. UEL: No data.  
**Vapor Pressure (vs. Air or mm Hg):** No data.  
**Vapor Density (vs. Air = 1):** No data.  
**Specific Gravity (Water = 1):** No data.  
**Solubility in Water:** No data.  
**Autoignition Pt:** No data.

### 9.2 Other Information

**Percent Volatile:** No data.

## SECTION 10. STABILITY AND REACTIVITY

**10.1 Reactivity:** No data available.  
**10.2 Stability:** Unstable [ ] Stable [ X ]  
**10.3 Conditions To Avoid - Hazardous Reactions:** No data available.  
**Possibility of Hazardous Reactions:** Will occur [ ] Will not occur [ X ]  
**10.4 Conditions To Avoid - Instability:** No data available.  
Light, ignition sources, Exposure to air.  
**10.5 Incompatibility - Materials To Avoid:** Strong oxidizing agents, Strong bases, Copper.  
**10.6 Hazardous Decomposition or Byproducts:** formed under fire conditions. Carbon oxides, Phosphorous oxides, Hydrogen chloride gas, Thermal decomposition 244 °C Hydrogen chloride, phosgene, Carbon monoxide.



## SECTION 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on

#### Toxicological Effects:

Epidemiology: No data available.

Teratogenicity: No data available.

Reproductive Effects: Mutagenicity: Neurotoxicity: Other Studies:

CAS# NA:

Acute toxicity, LD50, Oral, Rat, 3600. MG/KG.

Results:

Behavioral: Somnolence (general depressed activity).

Behavioral: Tremor.

Lungs, Thorax, or Respiration: Other changes.

- National Technical Information Service, Vol/p/yr: OTS05, 7713

Acute toxicity, LD50, Intravenous, Mouse, 56.00 MG/KG.

Results:

Behavioral: Food intake (animal).

Nutritional and Gross Metabolic: Weight loss or decreased weight gain.

- U.S. Army Armament Research & Development Command, Chemical Systems Laboratory, NIOSH Exchange Chemicals., Aberdeen Proving Ground., Aberdeen Proving Ground, MD 21010, Vol/p/yr: NX#, 5768

Skin corrosion/irritation, Skin sensitization, Skin, Rabbit, 0.000 , Mild.

Results:

Sense Organs and Special Senses (Nose, Eye, Ear, and Taste): Eye: Lacrimation.

Behavioral: Tremor.

Lungs, Thorax, or Respiration: Cyanosis.

CAS# 156-60-5:

Reproductive Effects: TCMo, Inhalation, Rat, 6000. PPM, 6 H, female 7-16 day(s) after conception.

Results:

Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants).

- Fundamental and Applied Toxicology., Academic Press, Inc., 1 E. First St., Duluth, MN 55802, Vol/p/yr: 20,225, 1993

Reproductive Effects: TCMo, Inhalation, Rat, 12000. PPM, 6 H, female 7-16 day(s) after conception.

Results:

Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants).

Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus).

- Fundamental and Applied Toxicology., Academic Press, Inc., 1 E. First St., Duluth, MN 55802, Vol/p/yr: 20,225, 1993

Mutagenicity: Mutation test: Mutation in microorganisms., 50.00 UG/PLAT, Bacteria - Salmonella typhimurium.,

Results:

Behavioral: Sleep.

Behavioral: Hallucinations, distorted perceptions.





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- Toxicological and Environmental Chemistry., Gordon & Breach Science Pub. Inc., New York, NY, Vol/p/yr: 15,101, 1987

Mutagenicity:, Gene conversion and mitotic recombination., 80.00 MMOL/L, *Saccharomyces cerevisiae*.

Results:

Behavioral: Coma.

Lungs, Thorax, or Respiration:Dyspnea.

Nutritional and Gross Metabolic:Changes in:Metabolic acidosis.

- Teratogenesis, Carcinogenesis, and Mutagenesis., Alan R. Liss, Inc., 41 E. 11th St., New York, NY 10003, Vol/p/yr: 4,365, 1984

Mutagenicity:, Mutation test: DNA damage., 22.00 MMOL/L, *Saccharomyces cerevisiae*.

Results:

Behavioral: Coma.

Vascular: BP lowering not characterized in autonomic section.

Nutritional and Gross Metabolic:Changes in:Metabolic acidosis.

- Mutation Research., Elsevier Science Pub. B.V., POB 211, 1000 AE, Amsterdam Netherlands, Vol/p/yr: 206,209, 1988

Mutagenicity:, Sex chromosome loss and nondisjunction, 51500. UMOL/L, *Saccharomyces cerevisiae*.

Results:

Gastrointestinal:Nausea or vomiting.

- Mutation Research., Elsevier Science Pub. B.V., POB 211, 1000 AE, Amsterdam Netherlands, Vol/p/yr: 206,209, 1988

Mutagenicity:, Sex chromosome loss and nondisjunction, Species: Hamster, 6500. UMOL/L, Cell Type: lung..

Results:

Sense Organs and Special Senses (Nose, Eye, Ear, and Taste):Olfaction:Other changes.

Sense Organs and Special Senses (Nose, Eye, Ear, and Taste):Eye:Other.

Lungs, Thorax, or Respiration:Other changes.

- Mutation Research., Elsevier Science Pub. B.V., POB 211, 1000 AE, Amsterdam Netherlands, Vol/p/yr: 182,135, 1987

Other Studies:, TDLo, Oral, Rat, 113.0 GM/KG, 90 D.

Results:

Kidney, Ureter, Bladder: Changes in bladder weight.

- Journal of the American College of Toxicology., Mary Ann Liebert, Inc., New York, NY, Vol/p/yr: 6(4),471, 1987

Other Studies:, TCLo, Inhalation, Rat, 200.0 PPM, 8 W.

Results:

Lungs, Thorax, or Respiration:Other changes.

Liver: Other changes.

Endocrine: Changes in endocrine weight (unspecified).

- Toxicology., Elsevier Scientific Pub. Ireland, Ltd., POB 85, Limerick Ireland, Vol/p/yr: 7(2),141, 1977



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Acute toxicity, TCLO, Inhalation, Human, 4800. MG/M3, 10 M.

Results:

Behavioral: Sleep.

Behavioral: Hallucinations, distorted perceptions.

- Archiv fuer Hygiene und Bakteriologie., For publisher information, see ZHPMAT, Munich Fed. Rep. Ger., Vol/p/yr: 116,131, 1936

Acute toxicity, LD50, Oral, Rat, 1235. MG/KG.

Results:

Cardiac:Other changes.

Lungs, Thorax, or Respiration:Other changes.

Liver: Fatty liver degeneration.

- Toxicology., Elsevier Scientific Pub. Ireland, Ltd., POB 85, Limerick Ireland, Vol/p/yr: 7,141, 1977

Acute toxicity, LD50, Intraperitoneal, Rat, 7411. MG/KG.

Results:

Cardiac:Other changes.

Lungs, Thorax, or Respiration:Other changes.

Liver: Fatty liver degeneration.

- Toxicology., Elsevier Scientific Pub. Ireland, Ltd., POB 85, Limerick Ireland, Vol/p/yr: 7,141, 1977

Acute toxicity, LD50, Oral, Mouse, 2122. MG/KG.

Results:

Behavioral: Altered sleep time (including change in righting reflex).

Behavioral: Somnolence (general depressed activity).

Behavioral: Ataxia.

- Drug and Chemical Toxicology., Marcel Dekker, 270 Madison Ave., New York, NY 10016, Vol/p/yr: 8,373, 1985

Acute toxicity, LCLO, Inhalation, Mouse, 75.00 GM/M3, 2 H.

Results:

Behavioral: General anesthetic.

Behavioral: Convulsions or effect on seizure threshold.

Lungs, Thorax, or Respiration:Dyspnea.

- Archiv fuer Hygiene und Bakteriologie., For publisher information, see ZHPMAT, Munich Fed. Rep. Ger., Vol/p/yr: 116,131, 1936

Acute toxicity, LD50, Intraperitoneal, Mouse, 3952. MG/KG.

Results:

Behavioral: General anesthetic.

Behavioral: Convulsions or effect on seizure threshold.

Gastrointestinal:Nausea or vomiting.

- Toxicology., Elsevier Scientific Pub. Ireland, Ltd., POB 85, Limerick Ireland, Vol/p/yr: 7,141, 1977

Acute toxicity, LCLO, Inhalation, Species: Cat, 43.00 GM/M3, 6 H.

Results:



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Behavioral: General anesthetic.

Behavioral: Convulsions or effect on seizure threshold.

Gastrointestinal: Nausea or vomiting.

- Archiv fuer Hygiene und Bakteriologie., For publisher information, see ZHPMAT, Munich Fed. Rep. Ger., Vol/p/yr: 116,131, 1936

Acute toxicity, LD50, Skin, Species: Rabbit, > 5.000 GM/KG.

Results:

Skin and Appendages: Skin: After systemic exposure: Dermatitis, irritative.

Nutritional and Gross Metabolic: Weight loss or decreased weight gain.

- Acute Toxicity Data. Journal of the American College of Toxicology, Part B., Mary Ann Liebert, Inc., 1651 Third Ave., New York, NY 10128, Vol/p/yr: 1,10, 1990

Standard Draize Test, Skin, Species: Rabbit, 500.0 MG, 24 H.

Results:

Effects on Newborn: Growth statistics (e.g., reduced weight gain).

- Acute Toxicity Data. Journal of the American College of Toxicology, Part B., Mary Ann Liebert, Inc., 1651 Third Ave., New York, NY 10128, Vol/p/yr: 1,11, 1990

Standard Draize Test, Eyes, Species: Rabbit, 10.00 MG.

Results:

Behavioral: Sleep.

Behavioral: Hallucinations, distorted perceptions.

- Acute Toxicity Data. Journal of the American College of Toxicology, Part B., Mary Ann Liebert, Inc., 1651 Third Ave., New York, NY 10128, Vol/p/yr: 1,11, 1990

**Irritation or Corrosion:** Skin - rabbit - Mild skin irritation - 24 h.

Serious eye damage/eye irritation:

Eyes - rabbit - Mild eye irritation.

**Carcinogenicity/Other** Carcinogenicity.

**Information:**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA. CAS# 156-60-5: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
460-73-1	1,1,1,3,3-Pentafluoropropane {HFC-245fa}	n.a.	n.a.	n.a.	n.a.
NA	Halogenated Phosphate	n.a.	n.a.	n.a.	n.a.
NA	Halogenated polyester	n.a.	n.a.	n.a.	n.a.
156-60-5	Trans-1,2-Dichloroethylene {1,2-trans-Dichloroethylene; Ethene, 1,2-dichloro-, (E)-}	n.a.	n.a.	n.a.	n.a.



## SECTION 12. ECOLOGICAL INFORMATION

- 12.1 Toxicity:** No data available.
- 12.2 Persistence and Degradability:** No data available.
- 12.3 Bioaccumulative Potential:** No data available.
- 12.4 Mobility in Soil:** No data available.
- 12.5 Results of PBT and vPvB assessment:** No data available.
- 12.6 Other adverse effects:** No data available.

## SECTION 13. DISPOSAL CONSIDERATIONS

- 13.1 Waste Disposal Method:** Product.  
Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.
- Contaminated packaging.  
Dispose of as unused product. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261. RCRA P-Series: None listed. RCRA U-Series:  
CAS# 156-60-5: waste number U079.

## SECTION 14. TRANSPORT INFORMATION

**GHS Classification:** Acute Toxicity: Oral, Category 4 - Warning! Harmful if swallowed  
Acute Toxicity: Skin, Category 5 - Warning! May be harmful in contact with skin  
Skin Corrosion/Irritation, Category 3 - Warning! Causes mild skin irritation  
Serious Eye Damage/Eye Irritation, Category 2B - Warning! Causes eye irritation  
Aquatic Toxicity (Acute), Category 3 - Harmful to aquatic life

### 14.1 LAND TRANSPORT (US DOT):

**DOT Proper Shipping Name:** Not Regulated.

**DOT Hazard Class:**

**UN/NA Number:**

### 14.1 LAND TRANSPORT (Canadian TDG):

**TDG Shipping Name:** Not Regulated.

**UN Number:**

**Hazard Class:**

**TDG Classification:**

### 14.1 LAND TRANSPORT (European ADR/RID):

**ADR/RID Shipping Name:**

**UN Number:**

**Hazard Class:**

### 14.2 MARINE TRANSPORT (IMDG/IMO):

**IMDG/IMO Shipping Name:** Not Regulated.



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### 14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Not Regulated.

## SECTION 15. REGULATORY INFORMATION

### EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
460-73-1	1,1,1,3,3-Pentafluoropropane {HFC-245fa}	No	No	No
NA	Halogenated Phosphate	No	No	No
NA	Halogenated polyester	No	No	No
156-60-5	Trans-1,2-Dichloroethylene {1,2-trans-Dichloroethylene; Ethene, 1,2-dichloro-, (E)-}	No	Yes 1000 LB	No

CAS #	Hazardous Components (Chemical Name)	Canadian NPRI	Canadian IDL	Canadian DSL
460-73-1	1,1,1,3,3-Pentafluoropropane {HFC-245fa}	No	No	Yes
NA	Halogenated Phosphate	No	No	Yes
NA	Halogenated polyester	No	No	Yes
156-60-5	Trans-1,2-Dichloroethylene {1,2-trans-Dichloroethylene; Ethene, 1,2-dichloro-, (E)-}	No	No	Yes

### CAS # Hazardous Components (Chemical Name)

### Other US EPA or State Lists

460-73-1	1,1,1,3,3-Pentafluoropropane {HFC-245fa}	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: No; NY Part 597: No; PA HSL: No; SC TAP: No; WI Air: No
NA	Halogenated Phosphate	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory, 8D TERM; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: No; NY Part 597: No; PA HSL: No; SC TAP: No; WI Air: No
NA	Halogenated polyester	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: No; NY Part 597: No; PA HSL: No; SC TAP: No; WI Air: No
156-60-5	Trans-1,2-Dichloroethylene {1,2-trans-Dichloroethylene; Ethene, 1,2-dichloro-, (E)-}	CAA HAP,ODC: No; CWA NPDES: Yes; TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: Title 8; MA Oil/HazMat: Yes; MI CMR, Part 5: Part 5; NC TAP: No; NJ EHS: No; NY Part 597: Yes; PA HSL: Yes - E; SC TAP: No; WI Air: No

### CAS # Hazardous Components (Chemical Name)

### International Regulatory Lists

460-73-1	1,1,1,3,3-Pentafluoropropane {HFC-245fa}
NA	Halogenated Phosphate
NA	Halogenated polyester
156-60-5	Trans-1,2-Dichloroethylene {1,2-trans-Dichloroethylene; Ethene, 1,2-dichloro-, (E)-}



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### Canadian WHMIS Classification:



CLASS B, DIVISION 2: Flammable Liquids

CLASS D, DIVISION 2, SUBDIVISION B: Toxic Materials (Mutagenicity, skin sensitization, irritation, etc.)

### European Community Hazard Symbol codes:



Xn

F

### European Community Risk and Safety Phrases:

R11	Highly flammable.
R20	Harmful by inhalation.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S16	Keep away from sources of ignition.
S29	Do not empty into drains.
S7	Keep container tightly closed.
S61	Avoid release to the environment. Refer to special instructions / safety data sheets.

**Regulatory Information:** This product contains no chemicals subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 40 CFR part 372.

## SECTION 16. OTHER INFORMATION

**Revision Date:** 04/30/2015

**Additional Information About** No data available.

**This Product:**

**Company Policy or**

**Disclaimer:**

While the information and recommendations in this publication are given to the best of our knowledge, and information at the date of publication, nothing herein is to be construed as a warranty, expressed or otherwise. In all cases, it is the responsibility of the user to determine the applicability of such information, and recommendations or the suitability of any product for its own particular purpose.

The product may present hazards and should be used with caution. While certain hazards are described in this Safety Data Sheet, no guarantee is made that these are the only hazards that exist. Hazards, toxicity and behavior of the products may differ when used with other materials and are dependent upon the manufacturing circumstances or other processes. Such hazards, toxicity and behavior should be determined by the user and made known to handlers, processors and end users.

NO PERSON OR ORGANIZATION EXCEPT A DULY AUTHORIZED SWD EMPLOYEE SHALL PROVIDE, OR MAKE AVAILABLE, DATA SHEETS FOR SWD PRODUCTS. DATA SHEETS FROM UNAUTHORIZED SOURCES MAY CONTAIN INFORMATION THAT IS NO LONGER CURRENT OR ACCURATE. NO PART OF THIS DATA SHEET MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM, OR BY ANY MEANS, WITHOUT THE WRITTEN PERMISSION OF SWD. ALL REQUESTS FOR



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PERMISSION TO REPRODUCE MATERIAL FROM THIS DATA SHEET OR  
QUESTIONS REGARDING THIS DATA SHEET SHOULD BE DIRECTED TO SWD AT  
800-828-1394.



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### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Code:** QS A  
**Product Name:** Quik-Shield A  
**Company Name:** SWD URETHANE  
539 S. Drew St.  
Mesa, AZ 85210,  
**Web site address:** www.swdurethane.com  
**Emergency Contact:** CHEMTREC  
(800) 424-9300

### 2. HAZARDS IDENTIFICATION

**Acute Toxicity:** Oral, Category 5  
**Skin Corrosion/Irritation,** Category 2  
**Skin Sensitization,** Category 1  
**Serious Eye Damage/Eye Irritation,** Category 2B  
**Acute Toxicity:** Inhalation, Category 4  
**Respiratory Sensitization,** Category 1  
**Carcinogenicity,** Category 2



**GHS Signal Word:** Danger

**GHS Hazard Phrases:** H303 - May be harmful if swallowed.  
H315 - Causes skin irritation.  
H317 - Health Hazards: Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure.  
H320 - Causes eye irritation.  
H332 - Harmful if inhaled.  
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H351 - Suspected of causing cancer .  
H401 - Toxic to aquatic life.

**GHS Precaution Phrases:** P201 - Obtain special instructions before use.  
P202 - Do not handle until all safety precautions have been read and understood.  
P260 - Do not breathe dust/fume/gas/mist/vapors/spray.  
P264 - Wash hands thoroughly after handling.  
P271 - Use only outdoors or in a well-ventilated area.  
P272 - Contaminated work clothing should not be allowed out of the workplace.  
P273 - Avoid release to the environment.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P284 - Wear respiratory protection .  
P285 - In case of inadequate ventilation wear respiratory protection.

**GHS Response Phrases:** P302+352 - IF ON SKIN: Wash with plenty of soap and water.  
P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P341 - If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.  
P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308+313 - IF exposed or concerned: Get medical attention/advice.  
P332+313 - If skin irritation occurs, get medical advice/attention.





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<b>GHS Storage and Disposal Phrases:</b>	P337+313 - If eye irritation persists, get medical advice/attention.
	P342+311 - If experiencing respiratory symptoms call a POISON CENTER or doctor/physician.
	P362 - Take off contaminated clothing and wash before re-use.
	P405 - Store locked up.
<b>Inhalation:</b>	Causes respiratory tract irritation.
<b>Skin Contact:</b>	May be harmful if absorbed through the skin. Causes skin irritation.
<b>Eye Contact:</b>	Causes eye irritation.
<b>Ingestion:</b>	May be harmful if swallowed.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Hazardous Components (Chemical Name)	Concentration
101-68-8	Methylenebis(phenylisocyanate) {MBI; Methylene diphenyl diisocyanate; MDI; Diphenylmethane-4,4'-diisocyanate}	30.0 -60.0 %
NA	MDI, mixed isomers	30.0 -60.0 %

### 4. FIRST AID MEASURES

<b>Emergency and First Aid Procedures:</b>	
<b>In Case of Inhalation:</b>	If breathed in, move person into fresh air. If not breathing give artificial respiration.
<b>In Case of Skin Contact:</b>	Wash off with soap and plenty of water. Consult a physician.
<b>In Case of Eye Contact:</b>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
<b>In Case of Ingestion:</b>	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
<b>Signs and Symptoms Of Exposure:</b>	Cough, Shortness of breath, Headache. Nausea. Vomiting, Pulmonary edema. Effects may be delayed.
<b>Note to Physician:</b>	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

### 5. FIRE FIGHTING MEASURES

Flash Pt:	> 150.00 C	Method Used:	Closed Cup
Explosive Limits:	LEL:		UEL:
Autoignition Pt:	NA		
Suitable Extinguishing Media:	Use water spray, dry chemical, carbon dioxide, or alcohol-resistant foam.		
Fire Fighting Instructions:	Wear self contained breathing apparatus for fire fighting if necessary.		
Flammable Properties and Hazards:			
Hazardous Combustion Products:			



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### 6. ACCIDENTAL RELEASE MEASURES

<b>Steps To Be Taken In Case Material Is Released Or Spilled:</b>	Personal precautions. Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation. Environmental precautions. Do not let product enter drains.  Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.
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### 7. HANDLING AND STORAGE

<b>Precautions To Be Taken in Handling:</b>	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.
<b>Precautions To Be Taken in Storing:</b>	Keep container tightly closed in a dry and well-ventilated place. Recommended storage temperature: 15 - 38 deg.C. Store under inert gas. Moisture sensitive.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
101-68-8	Methylenebis(phenylisocyanate) {MBI; Methylene diphenyl diisocyanate; MDI; Diphenylmethane-4,4'-diisocyanate}	CEIL: 0.02 ppm	TLV: 0.005 ppm	
NA	MDI, mixed isomers			
<b>Respiratory Equipment (Specify Type):</b>	When the product is sprayed or heated without adequate ventilation, an approved MSHA/NIOSH positive-pressure, supplied air respirator may be required. Air purifying respirators equipped with organic vapor cartridges and HEPA (P100) particulate filter may be used under certain conditions when the cartridge change-out schedule has been developed in accordance with the OSHA respiratory protection standard (29 CFR 1910.134).			
<b>Eye Protection:</b>	Face shield and safety glasses.			
<b>Protective Gloves:</b>	Handle with gloves.			
<b>Other Protective Clothing:</b>	Choose body protection according to the amount and concentration of the dangerous substance at the work place.			
<b>Engineering Controls (Ventilation etc.):</b>				
<b>Work/Hygienic/Maintenance Practices:</b>	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.			



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### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical States:** [ ] Gas [ X ] Liquid [ ] Solid

**Appearance and Odor:** Slightly. Musty.

**pH:**

**Melting Point:** 42.00 C - 45.00 C

**Boiling Point:** 200.00 C

**Flash Pt:** > 150.00 C Method Used: Closed Cup

**Evaporation Rate:**

**Flammability (solid, gas):**

**Explosive Limits:** LEL: UEL:

**Vapor Pressure (vs. Air or mm Hg):** 1

**Vapor Density (vs. Air = 1):**

**Specific Gravity (Water = 1):**

**Density:** 1.18 G/CM3

**Solubility in Water:**

**Octanol/Water Partition Coefficient:**

**Autoignition Pt:** NA

**Decomposition Temperature:**

**Viscosity:**

### 10. STABILITY AND REACTIVITY

**Stability:** Unstable [ ] Stable [ X ]

**Conditions To Avoid - Instability:** Contact with moisture, other materials that react with isocyanates, or temperatures above 350 °F (177 °C), may cause polymerization.

**Incompatibility - Materials To Avoid:** Water. Amines, Strong bases, Alcohols.

**Hazardous Decomposition or Byproducts:** formed under fire conditions. Carbon oxides, nitrogen oxides (NOx).

**Possibility of Hazardous Reactions:** Will occur [ ] Will not occur [ X ]

**Conditions To Avoid - Hazardous Reactions:**



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### 11. TOXICOLOGICAL INFORMATION

#### Toxicological Information:

##### Irritation or Corrosion:

Serious eye damage/eye irritation:  
Eyes - rabbit - Moderate eye irritation.

##### Carcinogenicity/Other Information:

Carcinogenicity.  
This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

Limited evidence of carcinogenicity in animal studies.  
IARC: Group 3: Not classifiable as to its carcinogenicity to humans 3.  
ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.  
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.  
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
101-68-8	Methylenebis(phenylisocyanate) {MBI; Methylene diphenyl diisocyanate; MDI; Diphenylmethane-4,4'-diisocyanate}		3		
NA	MDI, mixed isomers		3		

### 12. ECOLOGICAL INFORMATION

##### Persistence and Degradability:

No data available.

##### Bioaccumulative Potential:

No data available.

##### Mobility in Soil:

No data available.

### 13. DISPOSAL CONSIDERATIONS

##### Waste Disposal Method:

Product.  
Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging.  
Dispose of as unused product.

### 14. TRANSPORT INFORMATION

##### GHS Classification:

Acute Toxicity: Oral, Category 5 - Warning! May be harmful if swallowed  
Skin Corrosion/Irritation, Category 2 - Warning! Causes skin irritation  
Skin Sensitization, Category 1 - Warning! May cause an allergic skin reaction  
Serious Eye Damage/Eye Irritation, Category 2B - Warning! Causes eye irritation  
Acute Toxicity: Inhalation, Category 4 - Warning! Harmful if inhaled  
Respiratory Sensitization, Category 1 - Danger! May cause allergy or asthma symptoms or breathing difficulties if inhaled  
Carcinogenicity, Category 2 - Warning! Suspected of causing cancer  
Aquatic Toxicity (Acute), Category 2 - Toxic to aquatic life



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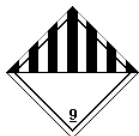
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### LAND TRANSPORT (US DOT):

**DOT Proper Shipping Name:** Other regulated substances, Liquid, N.O.S. (Methylene Diphenyl Diisocyanate)**DOT Hazard Class:** 9 CLASS 9**UN/NA Number:** NA3082**Packing Group:** III

### LAND TRANSPORT (Canadian TDG):

**TDG Shipping Name:** Not Regulated.**UN Number:** 3082**Packing Group:** III**Hazard Class:** 9 - CLASS 9**TDG Classification:**

### MARINE TRANSPORT (IMDG/IMO):

**IMDG/IMO Shipping Name:** Not Regulated.

### AIR TRANSPORT (ICAO/IATA):

**ICAO/IATA Shipping Name:** Not Regulated.**Additional Transport Information:** Containers shipped with less than 20,000 LBS are classified as Non-Hazardous.

## 15. REGULATORY INFORMATION

### EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
101-68-8	Methylenebis(phenylisocyanate) {MBI; Methylene diphenyl diisocyanate; MDI; Diphenylmethane-4,4'-diisocyanate}	No	Yes 5000 LB	Yes-Cat. N120
NA	MDI, mixed isomers	No	No	Yes-Cat. N120

### CAS # Hazardous Components (Chemical Name)

### Other US EPA or State Lists

101-68-8	Methylenebis(phenylisocyanate) {MBI; Methylene diphenyl diisocyanate; MDI; Diphenylmethane-4,4'-diisocyanate}	CAA HAP,ODC: HAP; CWA NPDES: No; TSCA: Yes - Inventory, 8C; CA PROP.65: No; CA TAC, Title 8: TAC, Title 8; MA Oil/HazMat: No; MI CMR, Part 5: Part 5; NC TAP: Yes; NJ EHS: Yes - Cat.; NY Part 597: Yes; PA HSL: Yes - E; SC TAP: Yes; WI Air: Yes
NA	MDI, mixed isomers	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory, 8C, 8D TERM; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: Yes - Cat.; NY Part 597: No; PA HSL: No; SC TAP: No; WI Air: No

### CAS # Hazardous Components (Chemical Name)

### International Regulatory Lists

101-68-8	Methylenebis(phenylisocyanate) {MBI; Methylene diphenyl diisocyanate; MDI; Diphenylmethane-4,4'-diisocyanate}	Canadian DSL: Yes; Canadian NDSL: No
NA	MDI, mixed isomers	Canadian DSL: Yes; Canadian NDSL: No

**Regulatory Information:** This product contains chemicals subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR part 372.

Incipient fire responders should wear eye protection. Firefighters must wear Self-Contained Breathing Apparatus and full protective equipment. Isolate materials not yet involved in the fire and protect personnel. Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray. If possible, prevent runoff water from entering storm drains, bodies of water, or other



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environmentally sensitive areas.  
Incipient fire responders should wear eye protection. Firefighters must wear Self-Contained Breathing Apparatus and full protective equipment. Isolate materials not yet involved in the fire and protect personnel. Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas.

### 16. OTHER INFORMATION

**Revision Date:** 07/13/2017

**Additional Information About  
This Product:**

**Company Policy or  
Disclaimer:**

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