BRAND D SPF Adhesive Part A

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 05/09/2017

Revision date: 05/09/2017

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product dentifier

Product form

: Mixture

Product name(s)

: Brand D SPF Adhesive Part A,

1.2 Relevant identified uses of the substance or mixture and uses advised against Use of the substance/mixture

: Low pressure PVC roof adhesive, Side-A Component, for PROFESSIONAL USE ONLY

11.3. Details of the supplier of the safety data sheet

Manufacturer:

Distributors:

1.4. Emergency telephone number

Emergency number

: CHEMTREC 1-800-434-9300 (Acct.# -

). CANUTEC 1-613-996-6666

SECTION 2: Hazards identification

2.11 Classification of the substance or mixture

Classification (GHS-US)

Acute Tox. 4 (Inhalation:dust,mist) H332 Skin Irrit. 2 H315 Resp. Sens. 1 H334 Skin Sens. 1 H317 STOT SE 3 H335 STOT RE 2 H373

Full text of H statements: see section 16

2.2 Label elements

GHS-US labeling

Hazard pictograms (GHS-US)





GHS07

GHS08

Signal word (GHS-US)

: Danger

Hazard statements (GHS-US)

: H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H332 - Harmful if inhaled

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

H335 - May cause respiratory irritation

H373 - May cause damage to organs (respiratory system) through prolonged or repeated

exposure (Inhalation)

P260 - Do not breathe dust, fume, gas, mist, spray, vapors Precautionary statements (GHS-US)

P264 - Wash hands thoroughly after handling

P271 - Use only outdoors or in a well-ventilated area

P272 - Contaminated work clothing must not be allowed out of the workplace

P280 - Wear nitrile gloves

P284 - [In case of inadequate ventilation] wear respiratory protection

P302+P352 - If on skin: Wash with plenty of water

P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing

P312 - Call a poison center if you feel unwell

P314 - Get medical advice/attention if you feel unwell P321 - Specific treatment (see a doctor on this label)

P332+P313 - If skin irritation occurs: Get medical advice/attention P333+P313 - If skin irritation or rash occurs: Get medical advice/attention P342+P311 - If experiencing respiratory symptoms: Call a poison center/doctor/

P362+P364 - Take off contaminated clothing and wash it before reuse

P363 - Wash contaminated clothing before reuse

P403+P233 - Store in a well-ventilated place. Keep container tightly closed

P405 - Store locked up

P501 - Dispose of container in accordance with local, regional or national regulations

Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US

No data available

SECTION 3: Composition/information on ingredients

Substance

Not applicable

Ì	Name	Product identifier	%	Classification (GHS-US)
	4,4'-methylenediphenyl diisocyanate	(CAS No) 101-68-8	28 - 45	Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Resp. Sens. 1, H334 Skin Sens. 1, H317 STOT SE 3, H335 STOT RE 2, H373
	Non-hazardous components	n/a	55-72	n/a

SECTION 4: First aid measures

Description of first aid measures

First-aid measures general

Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Remove the victim into fresh air. Call a POISON CENTER or doctor/physician.

First-aid measures after skin contact

Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes. Get medical advice/attention. Specific treatment (see Wash immediately with lots of water on this label). If skin irritation or rash occurs: Wash immediately with lots of water.

First-aid measures after eye contact

Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.

First-aid measures after ingestion

: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries

: Causes damage to organs (respiratory system) (inhalation). Respiratory system.

Symptoms/injuries after inhalation

: Danger of serious damage to health by prolonged exposure through inhalation, Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. May cause respiratory irritation.

Symptoms/injuries after skin contact

Causes skin irritation.

Symptoms/injuries after eye contact

: Eye irritation.

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4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

: Dry powder. Carbon dioxide.

Unsuitable extinguishing media

: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Explosion hazard

: Pressurized container: may burst if heated.

Reactivity

: Contains gas under pressure; may explode if heated.

5.3. Advice for firefighters

Firefighting Instructions

: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting

: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures

: Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment

: Equip cleanup crew with proper protection.

Emergency procedures

: Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up

: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.4 Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling

: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Use only outdoors or in a well-ventilated area. Avoid breathing dust, fume, gas, mist, spray, vapors

Hygiene measures

Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

: Keep only in the original container in a cool, well ventilated place away from : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep

container tightly closed. Store at temperatures not exceeding 95F (35C).

Incompatible products

: Strong bases. Strong acids.

Incompatible materials

Sources of Ignition.

Storage temperature

: <= 35 (7.2°C - 35°C) °C

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

4,4'-methylenediphenyl diisc	ocyanate (101-68-8)	
USA ACGIH	ACGIH TWA (ppm)	0.01 ppm
USA ACGIH	ACGIH STEL (ppm)	0.005 ppm
USA ACGIH	Remark (ACGIH)	Resp sens

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4,4'-methylenediphenyl dilso	ocyanate (101-68-8)	
USA OSHA	OSHA PEL (Ceiling) (mg/m³)	0.2 mg/m³
USA OSHA	OSHA PEL (Ceiling) (ppm)	0.02 ppm

8.2. Exposure controls

Appropriate engineering controls

: Ensure good ventilation of the work station.

Personal protective equipment

: Avoid all unnecessary exposure.

Hand protection Eye protection

Wear nitrile gloves protective gloves. Chemical goggles or safety glasses.

Skin and body protection

Wear suitable protective clothing.

Respiratory protection

: In case of insufficient ventilation, wear suitable respiratory equipment.

Other information

: Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid Appearance : Liquid. Color amber Odor mild

Odor threshold No data available рΗ No data available Relative evaporation rate (butyl acetate=1) No data available Melting point No data available Freezing point No data available Boiling point No data available

Flash point >= 200 °C

Auto-ignition temperature No data available Decomposition:temperature No data available Flammability (solid, gas) No data available Vapor pressure ≈ 0.59 mPa Relative vapor density at 20 °C >= 3.6

No data available Specific Gravity

Density : ≈ 1.23 g/ml Solubility Insoluble in water. Log Pow : No data available Log Kow No data available Viscosity, kinematic No data available Viscosity, dynamic No data available Explosive properties No data available Oxidizing properties : No data available **Explosion limits** : No data available

9.2. Other information

VOC content : <5 g/l As calculated per SCAQMD rule 443.1

SECTION 10: Stability and

10.1. Reactivity

Contains gas under pressure; may explode if heated.

Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions.

Not established.

10.4. Conditions to avoid

Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

Strong acids. Strong bases.

Acute toxicity

ATE US (vapors)

ATE US (dust, mist)

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

SPF Adhesive Part	
ATE US (dust, mist)	3.333 mg/l/4h
4,4'-methylenediphenyl diisocya	nate (101-68-8)
LD50 oral rat	> 7616 mg/kg (Rat; Equivalent or similar to OECD 401; Experimental value)
LD50 dermal rabbit	> 9400 mg/kg body weight (Rabbit; Read-across; Equivalent or similar to OECD 402)
ATE US (gases)	4500,000 ppmV/4h

: Inhalation:dust/mist: Harmful If inhaled.

Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/irritation : Not classified

Respiratory or skin sensitization : May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an

allergic skin reaction.

11.000 mg/l/4h

1.500 mg/l/4h

Germ cell mutagenicity : Not classified Carcinogenicity : Not classified

4,4'-methylenediphenyl diisocyanate (101-68-8)

IARC group 3 - Not classifiable

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : May cause respiratory irritation.

Specific target organ toxicity (repeated

exposure)

: May cause damage to organs (respiratory system) through prolonged or repeated exposure

(Inhalation).

May cause damage to organs through prolonged or repeated exposure

Aspiration hazard : Not classified

Potential Adverse human health effects and

symptoms

Based on available data, the classification criteria are not met. Harmful if inhaled.

Symptoms/injuries after inhalation : Danger of serious damage to health by prolonged exposure through inhalation. Harmful if

inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause

an allergic skin reaction. May cause respiratory irritation.

Symptoms/injuries after skin contact

: Causes skin irritation.

Symptoms/injuries after eye contact

: Eye irritation.

SECTION 12: Ecological information

12.1. Toxicity

4,4'-methylenediphenyl diisocyanate (101-68-8)				
LC50 fish 1	> 1000 mg/l (96 h; Danio rerio; Nominal concentration)			
EC50 Daphnia 1	129.7 mg/l (24 h; Daphnia magna; Locomotor effect)			
Threshold limit algae 1	> 1640 mg/l (72 h; Desmodesmus subspicatus; Growth rate)			
Threshold limit algae 2	1000 mg/l (112 days; Aquatic plants)			

12.2. Persistence and degradability

SPF Adhesive Part A	
Persistence and degradability	Not established

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Persistence and degradability	Not readily biodegradable in water. No (test)data on mobility of the substance available. Not established.
i2.3. Bioaccumulative potential	
SPF Adhesive Part A	
Bioaccumulative potential	Not established.
4,4'-methylenediphenyl diisocyanat	e (101-68-8)
BCF fish 1	0 (8 weeks; Cyprinus carpio; Test duration: 8 weeks)
BCF fish 2	92 - 200 (4 weeks; Cyprinus carplo; GLP)
Log Pow	5.22 (Estimated value)

Bioaccumulative potential 12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Effect on ozone layer

Effect on the global warming

: No known ecological damage caused by this product.

Low potential for bioaccumulation (BCF < 500). Not established.

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations

: Dispose in a safe manner in accordance with local/national regulations. Dispose of container in

accordance with local, regional or national regulations.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

In accordance with DOT

Transport document description

UN3500 Chemical under pressure, n.o.s., 2.2

UN-No.(DQT)

3500

DOT NA no.

UN3500

DOT Proper Shipping Name

Chemical under pressure, n.o.s.

Technical Name

: (1,1,1,2 Tetrafluoroethane, Nitrogen)

Class (DOT)

2.2 - Class 2.2 - Non-flammable compressed gas 49 CFR 173,115

Hazard labels (DOT)

: 2.2 - Non-flammable gas



DOT Symbols

: G - Identifies PSN requiring a technical name

DOT Special Provisions (49 CFR 172.102)

T50 - When portable tank instruction T50 is referenced in Column (7) of the 172,101 Table, the applicable liquefied compressed gases are authorized to be transported in portable tanks in

accordance with the requirements of 173,313 of this subchapter

DOT Packaging Exceptions (49 CFR 173.xxx)

: None 335 : 313;315

DOT Packaging Non Bulk (49 CFR 173,xxx) DOT Packaging Bulk (49 CFR 173.xxx)

DOT Quantity Limitations Passenger aircraft/rail : 75 kg (49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 150 kg

CFR 175.75)

DOT Vessel Stowage Location

: B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(l) of this

section is exceeded

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Additional information

Emergency Response Guide (ERG) Number

Other information

: No supplementary information available.

ADR

Transport document description

Transport by sea

UN-No. (IMDG)

: 3500

: 126

Proper Shipping Name (IMDG)

: CHEMICAL UNDER PRESSURE, N.O.S.

Class (IMDG)

: 2 - Gases

Air transport

UN-No.(IATA)

: 3500

Proper Shipping Name (IATA)

: Chemical under pressure, n.o.s.

Class (IATA)

: 2

SECTION 15: Regulatory information

15.1. US Federal regulations

SPF Adhesive Part A

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

4,4'-methylenediphenyl diisocyanate (101-68-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Listed on United States SARA Section 313

CERCLA RQ

5000 lb

15.2. International regulations

CANADA

EU-Regulations

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified

15.2.2. National regulations

No additional information available

15.3. US State regulations

SPF Adhesive Part A	
U.S California - Proposition 65 - Carcinogens List	No
U.S California - Proposition 65 - Developmental Toxicity	No .
U.S California - Proposition 65 - Reproductive Toxicity - Female	No
U.S California - Proposition 65 - Reproductive Toxicity - Male	No

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U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)
No	No ·	No ·	No	

4,4'-methylenediphenyl diisocyanate (101-68-8)

U.S. - Massachusetts - Right To Know List

U.S. - New Jersey - Right to Know Hazardous Substance List

4,4'-methylenediphenyl diisocyanate (101-68-8)

U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

Revision date
Other information

: 05/09/2017

: None.

Full text of H-phrases::

At Of Hisphiases	
H315	Causes skin Irritation
H317	May cause an allergic skin reaction
H332	Harmful if inhaled
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335	May cause respiratory irritation
H373	May cause damage to organs through prolonged or repeated exposure

NFPA health hazard

 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt

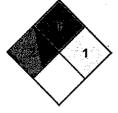
medical attention is given.

NFPA fire hazard

: 1 - Must be preheated before ignition can occur.

NFPA reactivity

 1 - Normally stable, but can become unstable at elevated temperatures and pressures or may react with water with some release of energy, but not violently.



HMIS III Rating

SDS US (GHS HazCom 2012) - Custom

This SDS contains all the Information required by ANSI Z400.1 standard (United States), by regulation 29 CFR Part 1910-1200 of the Hazard Communication Standard of OSHA and is in accordance with DORS/88-66 of WHMIS (Canada).

The best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy of completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herin, we cannot guarantee that these are the only hazards that exist.



Brand D

Adhesive Part B

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Innovativo Bullding Envelope Solutions	Date of Issue: 05/10/2017 Revision date: 06/10/2017
SECTION 1: Identification	of the substance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Mixture
Product name	: Brand D Part B
1.2. Relevant identified uses	of the substance or mixture and uses advised against
Use of the substance/mixture	: Low pressure Polyurethane Foam Adhesive, Side B Component, for PROFESSIONAL USE ONLY
1.3. Details of the supplier of Manufacturer:	f the safety data sheet
Distributors:	

1.4. Emergency telephone number

Emergency number

: CHEMTREC 1-800-434-9300 (Acct.#

. CANUTEC 1-613-996-6666

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (GHS-US) Skin Sens. 1 H317

Full text of H statements : see section 16

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US)



GHS07

: Warning

Signal word (GHS-US)
Hazard statements (GHS-US)

: H317 - May cause an allergic skin reaction

Precautionary statements (GHS-US)

: P261 - Avoid breathing dust, fume, gas, mist, spray, vapors

P272 - Contaminated work clothing must not be allowed out of the workplace

P280 - Wear nitrile gloves

P302+P352 - If on skin: Wash with plenty of water P321 - Specific treatment (see a doctor on this label)

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention

P363 - Wash contaminated clothing before reuse

P501 - Dispose of container in accordance with local, regional or national regulations

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2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

No data available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification (GHS-US)
dibutyltin dilaurate	(CAS No) 77-58-7	< 0.24	Skin Corr. 1C, H314 Skin Sens. 1, H317 Muta. 2, H341 STOT SE 1, H370 STOT RE 1, H372 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Non-hazardous components	n/a	99.76-100	n/a

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Never

: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical

advice (show the label where possible).

First-aid measures after inhalation

: Assure fresh air breathing. Allow the victim to rest.

First-aid measures after skin contact

Remove affected clothing and wash ail exposed skin area with mild soap and water, followed by warm water rinse. Wash with plenty of soap and water. If skin irritation or rash occurs: Wash immediately with lots of water, Remove clothing while washing. Get medical advice/attention. Specific treatment (see Wash skin with plenty of water on this label). Wash contaminated

clothing before reuse.

First-aid measures after eye contact

Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness

persist.

First-aid measures after ingestion

: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation
Symptoms/injuries after skin contact

: May cause an allergic skin reaction.: May cause an allergic skin reaction.

Symptoms/injuries after eye contact Symptoms/injuries after ingestion No data available.Harmful if swallowed.

Symptoms/injuries upon intravenous administration

: No effects known.

Chronic symptoms

: No effects known.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

: Foam. Dry powder. Carbon dioxide. Water spray.

Unsuitable extinguishing media

: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Explosion hazard

: Contains gas under pressure; may explode if heated.

Reactivity

: On burning: release of irritant gases/vapours (carbon monoxide - carbon dioxide).

5.3. Advice for firefighters

Firefighting instructions

: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting

: Do not enter fire area without proper protective equipment, including respiratory protection.

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6.1.1.

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SECTION 6: Accidental release measures

For non-emergency personnel

6.1. Personal precautions, protective equipment and emergency procedures

General measures

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Prevent soil and water pollution.

: Evacuate area.

Methods and material for containment and cleaning up

: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect Methods for cleaning up

spillage. Store away from other materials.

Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work. Provide good ventilation in process area to prevent formation

of vapor. Avoid breathing dust, fume, gas, mist, spray, vapors.

Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. Wash contaminated

clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Do not expose to

temperatures exceeding 50 °C/ 122 °F, Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container closed when not in use.

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight.

Storage temperature : <= 35 °C

Heat-ignition : KEEP SUBSTANCE AWAY FROM:

Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

dibutyltin dilaurate (77-58-7)		
USA ACGIH	ACGIH TWA (mg/m³)	0.1 mg/m³ (Tin organic compounds, as Sn; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
USA ACGIH	ACGIH STEL (mg/m³)	0.2 mg/m³ (Tin organic compounds, as Sn; USA; Short time value; TLV - Adopted Value)

8.2. Exposure controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Personal protective equipment : Avoid all unnecessary exposure.

Hand protection : Wear nitrile gloves protective gloves. Eye protection : Chemical goggles or safety glasses.

: Protective clothing. Skin and body protection

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.

Other information : Do not eat, drink or smoke during use.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: LiquidAppearance: Liquid.Color: Off-whiteOdor: slight

Odor threshold : No data available pΗ : No data available Relative evaporation rate (butyl acetate=1) : No data available : No data available Melting point Freezing point : No data available Boiling point : No data available Flash point : >= 93.3 °C Auto-ignition temperature : No data available Decomposition temperature : No data available Flammability (solid, gas) : No data available : ≈ 0.59 mPa Vapor pressure

Specific Gravity : ≈ 1.1

Solubility : Moderately soluble in water.

Log Pow : No data available
Log Kow : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidizing properties : No data available
Explosion limits : No data available

9.2. Other information

Relative vapor density at 20 °C

VOC content : < 5 g/l calculated per SCAQMD rule 443.1 when mixed with Part A

: No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

On burning: release of irritant gases/vapours (carbon monoxide - carbon dioxide).

10,2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

dibutyltin dilaurate (77-58-7)	
LD50 oral rat	2071 mg/kg body weight (Rat; Equivalent or similar to OECD 401; Experimental value)
LD50 dermal rat	> 2000 mg/kg body weight (Rat; Experimental value; OECD 402: Acute Dermal Toxicity)

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dibutyltin dilaurate (77-58-7)	
ATE US (oral)	2071.000 mg/kg body weight
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.
Symptoms/injuries after inhalation	: May cause an allergic skin reaction.
Symptoms/injuries after skin contact	: May cause an allergic skin reaction.
Symptoms/injuries after eye contact	: No data available.
Symptoms/injuries after ingestion	: Harmful if swallowed.
Symptoms/injuries upon intravenous administration	: No effects known.
Chronic symptoms	: No effects known.

SECTION 12: Ecological information

12.1. Toxicity

Other information

dibutyltin dilaurate (77-58-7)	
Threshold limit algae 1	> 1 mg/l (EC50; OECD 201: Alga, Growth Inhibition Test; 72 h; Scenedesmus subspicatus;
	Static system; Fresh water; Experimental value)

: Likely routes of exposure; inhalation.

12.2. Persistence and degradability

DUOTACK® SPF Adhesive Part B	
Persistence and degradability	Not established.
dibutyltin dilaurate (77-58-7)	
Persistence and degradability	Not readily biodegradable in water. No (test)data on mobility of the substance available. Not established.

12.3. Bioaccumulative potential

DUOTACK® SPF Adhesive Part B		
Bioaccumulative potential	Not established.	
dibutyltin dilaurate (77-58-7)		
BCF fish 1	31 - 813 (BCF; OECD 305: Bioconcentration: Flow-Through Fish Test; 7 days; Carassius carassius; Flow-through system; Fresh water; Experimental value)	
Bioaccumulative potential	Potential for bioaccumulation (500 ≤ BCF ≤ 5000). Not established,	

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Effect on ozone layer

Effect on the global warming : No known ecological damage caused by this product.

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of container in

accordance with local, regional or national regulations.

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Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

In accordance with DOT

Transport document description : UN3500 Chemical under pressure, n.o.s., 2.2

UN-No.(DOT) : 3500 DOT NA no. : UN3500

DOT Proper Shipping Name : Chemical under pressure, n.o.s.

Technical name : (1,1,1,2 Tetrafluoroethane, Nitrogen)

Class (DOT) : 2.2 - Class 2.2 - Non-flammable compressed gas 49 CFR 173.115

Hazard labels (DOT) : 2.2 - Non-flammable gas

DOT Symbols : G - Identifies PSN requiring a technical name

DOT Special Provisions (49 CFR 172.102) : T50 - When portable tank instruction T50 is referenced in Column (7) of the 172.101 Table, the

applicable liquefied compressed gases are authorized to be transported in portable tanks in

accordance with the requirements of 173.313 of this subchapter

DOT Packaging Exceptions (49 CFR 173.xxx) : None
DOT Packaging Non Bulk (49 CFR 173.xxx) : 335
DOT Packaging Bulk (49 CFR 173.xxx) : 313;315
DOT Quantity Limitations Passenger aircraft/rail : 75 kg

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 150 kg

CFR 175.75)

DOT Vessel Stowage Location : B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a

passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this

section is exceeded

Additional information

Emergency Response Guide (ERG) Number : 126

Other information : No supplementary information available.

ADR

Transport document description

Transport by sea

UN-No. (IMDG) : 3500

Proper Shipping Name (IMDG) : CHEMICAL UNDER PRESSURE, N.O.S.

Class (IMDG) : 2 - Gases

Air transport

UN-No.(IATA) : 3500

Proper Shipping Name (IATA) : Chemical under pressure, n.o.s.

Class (IATA) : 2

SECTION 15: Regulatory information

15.1. US Federal regulations

DUOTACK® SPF Adhesive Part B

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

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EU-Regulations

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified

15.2.2. National regulations

No additional information available

15.3. US State regulations

DUOTACK® SPF Adhesive Part B	
U.S California - Proposition 65 - Carcinogens List	No
U.S California - Proposition 65 - Developmental Toxicity	No
U.S California - Proposition 65 - Reproductive Toxicity - Fernale	No
U.S California - Proposition 65 - Reproductive Toxicity - Male	No

dibutyltin dilaurate (77-5	8-7)			
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)
No	No	No	No	

SECTION 16: Other information

Revision date : 05/10/2017
Other information : None.

Full text of H-phrases;;

ACOTT PHOGOGO		
H314	Causes severe skin burns and eye damage	
H317	May cause an allergic skin reaction	
H341	Suspected of causing genetic defects	
H370	Causes damage to organs	
H372	Causes damage to organs through prolonged or repeated exposure	
H400	Very toxic to aquatic life	
H410	Very toxic to aquatic life with long lasting effects	

NFPA health hazard

: 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was

given.

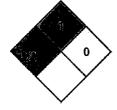
NFPA fire hazard

: 1 - Must be preheated before ignition can occur.

NFPA reactivity

: 0 - Normally stable, even under fire exposure conditions,

and are not reactive with water.



HMIS III Rating

SDS US (GHS HazCom 2012) - Custom

This SDS contains all the information required by ANSI Z400.1 standard (United States), by regulation 29 CFR Part 1910-1200 of the Hazard Communication Standard of OSHA and is in accordance with DORS/88-66 of WHMIS (Canada).

The best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy of completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herin, we cannot guarantee that these are the only hazards that exist.