

SECTION 1: Identification

1.1. Product identifier

Product form : Mixture

Trade name : FL 2000 3G

Product code : SF 02-23-48

1.2. Recommended use and restrictions on use

Recommended uses and restrictions : No restrictions on use known.

Recommended use : A component for the production of spray insulation foam, Professional use, Consumer use

1.3. Supplier

Huntsman Building Solutions 3315 E. Division Street, Arlington, TX 76011

Tel: 817-640-4900 , 888-224-153 sdsinfo@huntsmanbuilds.com

1.4. Emergency telephone number

Emergency number : CARECHEM (866) 928-0789

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification (GHS-CA)

Skin corrosion/irritation, Category 2 Causes skin irritation.
Serious eye damage/eye irritation, Category 1 Causes serious eye damage.

Specific target organ toxicity — Repeated exposure, Category 2 May cause damage to organs through prolonged or repeated exposure.

2.2. GHS Label elements, including precautionary statements

GHS-CA labelling

Hazard pictograms (GHS-CA)





Signal word (GHS-CA) : Danger

Hazard statements (GHS-CA) : Causes skin irritation.

Causes serious eye damage.

May cause damage to organs through prolonged or repeated exposure.

Precautionary statements (GHS-CA) : Do not breathe mist, spray, vapours.

Wash hands thoroughly after handling.

Wear protective clothing, eye protection, face protection.

IF ON SKIN: Wash with plenty of water.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

Immediately call a POISON CENTER, a doctor. Get medical advice/attention if you feel unwell. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

Dispose of contents/container to local, regional, and/or international regulations

2.3. Other hazards not contributing to the classification

No additional information available

2.4. Unknown acute toxicity (GHS-CA)

No data available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

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2.2. Mixtures				
Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS-CA)
Diethylene glycol	Bis(2-hydroxyethyl) ether / DEG / Diglycol / Dihydroxydiethyl ether / 2,2'-Dihydroxyethyl ether / Ethanol, 2,2'-oxybis- / 2,2'-Oxybisethanol / 2,2'-Oxydiethanol / 2,2'- Oxybis(ethanol) / DIETHYLENE GLYCOL	(CAS-No.) 111-46-6	4.02 - 7.42	Acute Tox. 4 (Oral), H302 STOT RE 2, H373
Tris(2-chloroisopropyl) phosphate	Tris(2-chloroisopropyl) phosphate	(CAS-No.) 1244733-77-4	6.97	Acute Tox. 4 (Oral), H302
1,3-Propanediamine, N,N-bis[3- (dimethylamino)propyl]-N',N'- dimethyl-	N,N-Bis[3-(dimethylamino)propyl]- N',N'-dimethylpropane-1,3-diamine / 1,3-Propanediamine, N1,N1-bis[3- (dimethylamino)propyl]-N3,N3- dimethyl- / Tris[3- (dimethylamino)propyl]amine / N,N- Bis(3-(dimethylamino)propyl)-N',N'- dimethyl-1,3-propanediamine	(CAS-No.) 33329-35-0	3	Acute Tox. 4 (Dermal), H312 Skin Corr. 1C, H314 Eye Dam. 1, H318
Cyclohexanamine, N-cyclohexyl- N-methyl-	N-Cyclohexyl-N- methylcyclohexylamine / Dicyclohexylamine, N-methyl- / Cyclohexanamine, N-cyclohexyl- Nmethyl- / N- Methyldicyclohexylamine / N,N- Dicyclohexyl-N- methylcyclohexanamine	(CAS-No.) 7560-83-0	3	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318
N-[2-(Dimethylamino)ethyl]- N,N',N'-trimethyl-1,2- ethanediamine	Bis(2-dimethylaminoethyl)(methyl)amine / Diethylenetriamine, 1,1,4,7,7-pentamethyl- / 1,2-Ethanediamine, N-[2-(dimethylamino)ethyl]-N,N',N'-trimethyl- / N,N,N',N'-Tetramethyl- 2,2'-(methylamino)is(ethylamine) / 1,2-Ethanediamine, N1-[2-(dimethylamino)ethyl]-N1,N2,N2-trimethyl- / 1,2-Ethanediamine, N-(2-(dimethylamino)ethyl)-N,N',N'-trimethyl- / Pentamethyldiethylenetriamine / N,N,N',N',N''-Pentamethyldiethylenetriamine / Bis[2-(dimethylamino)ethyl]methylamine / 1,2-Ethanediamine, N1-(2-(dimethylamino)ethyl]methylamine / 1,2-Ethanediamine, N1-(2-(dimethylamino)ethyl)-N1,N2,N2-trimethyl- / 1,1,4,7,7-Pentamethyldiethylenetriamine / N-[2-(Dimethylamine)ethyl]-N,N',N''-trimethyl-1,2-ethanediamine / N,N,N',N',N''-Pentamethyldiethylenetriamine / N-(2-(Dimethylamino)ethyl)-N,N',N''-trimethyl-1,2-ethanediamine	(CAS-No.) 3030-47-5	1	Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Skin Corr. 1B, H314
Ethylene glycol	1,2-Dihydroxyethane / Ethane-1,2- diol / 1,2-Ethanediol / Ethanediol / Dowtherm 4000 / GLYCOL / Glycol / Monoethylene glycol / Ethandiol	(CAS-No.) 107-21-1	0.25	Acute Tox. 4 (Oral), H302 STOT RE 2, H373

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

First-aid measures general

4.1.	Description of first aid measures	

First-aid measures after inhalation : IF INHALED: Remove person to fresh air and keep comfortable for breathing. Seek medical attention if ill effect or irritation develops.

First-aid measures after skin contact : Wash skin with plenty of water. Wash contaminated clothing before reuse. Seek medical

attention if ill effect or irritation develops.

First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing. Continue to rinse eye with clean water for 20-30 minutes, retracting eyelids often. Get immediate medical advice/attention.

First-aid measures after ingestion : If accidentally swallowed obtain immediate medical attention. Do not induce vomiting. Never

give anything by mouth to an unconscious person.

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

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects : May cause damage to organs through prolonged or repeated exposure.

Symptoms/effects after inhalation : Overexposure may be irritating to the respiratory system.

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Symptoms/effects after skin contact : Causes skin irritation.

Symptoms/effects after eye contact : Causes serious eye damage.

Symptoms/effects after ingestion : May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

4.3. Immediate medical attention and special treatment, if necessary

Note to physician : : Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

5.2. Unsuitable extinguishing media

Unsuitable extinguishing media : Do not use a heavy water stream.

5.3. Specific hazards arising from the hazardous product

Fire hazard : Thermal decomposition can lead to the release of irritating gases and vapours. Toxic and

corrosive vapours may be released.

Explosion hazard : No direct explosion hazard.

5.4. Special protective equipment and precautions for fire-fighters

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

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

Protective equipment for firefighters : 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

General measures : Stop leak if safe to do so.

Personal Precautions, Protective Equipment and Emergency Procedures

: Evacuate unnecessary personnel. Wear recommended personal protective equipment.

Ventilate area.

Prevention Measures for Secondary Accidents

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

waters.

6.2. Methods and materials 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.

6.3. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection"

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Provide good ventilation in process area to prevent formation of vapour. Avoid all unnecessary

exposure. Avoid contact with skin and eyes.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Always wash hands after handling the product. Wash

contaminated clothing before reuse. Handle in accordance with good industrial hygiene and

safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool well ventilated place. Keep container closed when

not in use.

Incompatible materials : Strong acids. Strong bases

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Lapolla FL 2100 LE			
USA - ACGIH	ACGIH TWA (ppm)	25 ppm	
USA - ACGIH	ACGIH STEL (mg/m³)	10 mg/m³	
USA - ACGIH	ACGIH STEL (ppm)	50 ppm	
USA - ACGIH	Remark (ACGIH)	URT irr; A4	
USA - ACGIH	Regulatory reference	ACGIH 2018	
Saskatchewan	OEL STEL (mg/m³)	100 mg/m³	
Saskatchewan	OEL TWA (mg/m³)	100 mg/m³	

Ethylene glycol (107-21-1)		
USA - ACGIH	ACGIH TWA (ppm)	25 ppm
USA - ACGIH	ACGIH STEL (mg/m³)	10 mg/m³

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Ethylene glycol (107-21-1)		
USA - ACGIH	ACGIH STEL (ppm)	50 ppm
USA - ACGIH	Remark (ACGIH)	URT irr; A4
USA - ACGIH	Regulatory reference	ACGIH 2018
Canada (Quebec)	PLAFOND (mg/m³)	127 mg/m³
Canada (Quebec)	PLAFOND (ppm)	50 ppm
Alberta	OEL Ceiling (mg/m³)	100 mg/m³
British Columbia	OEL Ceiling (mg/m³)	100 mg/m³ (aerosol)
British Columbia	OEL Ceiling (ppm)	50 ppm (vapour)
British Columbia	OEL STEL (mg/m³)	20 mg/m³ (particulate)
British Columbia	OEL TWA (mg/m³)	10 mg/m³ (particulate)
Manitoba	OEL STEL (mg/m³)	10 mg/m³ (inhalable particulate matter, aerosol only)
Manitoba	OEL STEL (ppm)	50 ppm (vapor fraction)
Manitoba	OEL TWA (ppm)	25 ppm (vapor fraction)
New Brunswick	OEL Ceiling (mg/m³)	100 mg/m³ (aerosol)
Newfoundland & Labrador	OEL STEL (mg/m³)	10 mg/m³ (inhalable particulate matter, aerosol only)
Newfoundland & Labrador	OEL STEL (ppm)	50 ppm (vapor fraction)
Newfoundland & Labrador	OEL TWA (ppm)	25 ppm (vapor fraction)
Nova Scotia	OEL STEL (mg/m³)	10 mg/m³ (inhalable particulate matter, aerosol only)
Nova Scotia	OEL STEL (ppm)	50 ppm (vapor fraction)
Nova Scotia	OEL TWA (ppm)	25 ppm (vapor fraction)
Nunavut	OEL Ceiling (mg/m³)	100 mg/m³ (aerosol)
Northwest Territories	OEL Ceiling (mg/m³)	100 mg/m³ (aerosol)
Ontario	OEL Ceiling (mg/m³)	100 mg/m³ (aerosol only)
Prince Edward Island	OEL STEL (mg/m³)	10 mg/m³ (inhalable particulate matter, aerosol only)
Prince Edward Island	OEL STEL (ppm)	50 ppm (vapor fraction)
Prince Edward Island	OEL TWA (ppm)	25 ppm (vapor fraction)
Saskatchewan	OEL Ceiling (mg/m³)	100 mg/m³ (aerosol)
Saskatchewan	OEL STEL (mg/m³)	100 mg/m³
Saskatchewan	OEL TWA (mg/m³)	100 mg/m³
Yukon	OEL STEL (mg/m³)	20 mg/m³ (particulate)
Yukon	OEL STEL (ppm)	10 ppm (particulate)
Yukon	OEL TWA (mg/m³)	10 mg/m³ (particulate)
Yukon	OEL TWA (ppm)	100 ppm (vapour)

8.2. Appropriate engineering controls

Appropriate engineering controls

: Ensure adequate ventilation. Provide local exhaust or general room ventilation to minimize vapour concentrations. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:

Wear impermeable gloves.

Eye protection:

Chemical goggles or face shield

Skin and body protection:

Long sleeved protective clothing

Respiratory protection:

Where excessive vapour, mist, or dust may result, use approved respiratory protection 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 : Liquid

Appearance : No data available : No available data Colour characteristic Odour Odour threshold No data available : No data available pН Relative evaporation rate (butylacetate=1) : No data available Relative evaporation rate (ether=1) No data available Melting point No data available No data available Freezing point No data available Boiling point No data available Flash point No data available Auto-ignition temperature Decomposition temperature : No data available Flammability (solid, gas) : Not applicable Vapour pressure No data available Vapour pressure at 50 °C No data available Relative density No data available Solubility : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Log Pow Explosive limits

Reactivity : No dangerous reactions known under normal conditions of use.

: No data available

No data available

Chemical stability : Stable under normal conditions of use.

Possibility of hazardous reactions : No polymerization. No dangerous reactions known.

Conditions to avoid : Direct sunlight. Extremely high or low temperatures.

Incompatible materials : Strong acids. Strong bases.

Hazardous decomposition products : No hazardous decomposition products known at room temperature. Thermal decomposition

can lead to the release of irritating gases and vapours. Toxic and corrosive vapours may be

released.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation) : Not classified (Based on available data, the classification criteria are not met)

1,3-Propanediamine, N,N-bis[3-(dimethylamino)propyl]-N',N'-dimethyl- (33329-35-0)		
ATE CA (dermal)	1100 mg/kg bodyweight	
Ethylene glycol (107-21-1)		
LD50 dermal rat	> 3500 mg/kg	
LC50 inhalation rat (Vapours - mg/l/4h)	> 2.5 (6 h)	
ATE CA (oral)	500 mg/kg bodyweight	
Diethylene glycol (111-46-6)		
LD50 oral rat	12565 mg/kg	
LD50 dermal rabbit	11890 mg/kg	
LC50 inhalation rat (mg/l)	> 4600 mg/m³ (Exposure time: 4 h)	
N-[2-(Dimethylamino)ethyl]-N,N',N'-trimethyl-1,2-ethanediamine (3030-47-5)		
LD50 oral rat	1630 μl/kg	
ATE CA (dermal)	300 mg/kg bodyweight	
ATE CA (gases)	700 ppmv/4h	
ATE CA (vapours)	3 mg/l/4h	

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ATE CA (dust,mist) Cyclohexanamine, N-cyclohexyl-N-methyl- (7560-83-0) LD50 oral rat 446 mg/kg Tris(2-chloroisopropyl) phosphate (1244733-77-4) ATE CA (oral) 500 mg/kg bodyweight Skin corrosion/irritation Serious eye damage/irritation Serious eye damage/irritation Causes skin irritation. Serious eye damage/irritation Respiratory or skin sensitization Not classified (Based on available data, the classification criteria are not met) Germ cell mutagenicity Not classified (Based on available data, the classification criteria are not met) Carcinogenicity Not classified (Based on available data, the classification criteria are not met) Reproductive toxicity Not classified (Based on available data, the classification criteria are not met) STOT-single exposure Not classified (Based on available data, the classification criteria are not met) STOT-repeated exposure May cause damage to organs through prolonged or repeated exposure. Ethylene glycol (107-21-1) STOT-repeated exposure May cause damage to organs through prolonged or repeated exposure. Diethylene glycol (111-46-6) STOT-repeated exposure May cause damage to organs through prolonged or repeated exposure. Diethylene glycol (111-46-6) STOT-repeated exposure May cause damage to organs through prolonged or repeated exposure. Symptoms/effects May cause damage to organs through prolonged or repeated exposure. Overexposure may be irritating to the respiratory system. Symptoms/effects after inhalation Causes skin irritation. Symptoms/effects after skin contact Causes serious eye damage.	N-[2-(Dimethylamino)ethyl]-N,N',N'-trimetl	nyl-1,2-ethanediamine (3030-47-5)
LD50 oral rat		
LD50 oral rat	Cyclohexanamine, N-cyclohexyl-N-methy	I- (7560-83-0)
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Aspiration hazard : Not classified (Based on available data, the classification criteria are not met) Symptoms/effects : May cause damage to organs through prolonged or repeated exposure. Symptoms/effects after inhalation : Overexposure may be irritating to the respiratory system. Symptoms/effects after skin contact : Causes skin irritation. Symptoms/effects after eye contact : Causes skin irritation of the linings of the mouth, throat, and gastrointestinal trace. Symptoms/effects after eye contact : Causes swin irritation of the linings of the mouth, throat, and gastrointestinal trace. Other information : Likely routes of exposure: ingestion, inhalation, skin and eye. SECTION 12: Ecological information 12.1. Toxicity Ecology - general : This material has not been tested for environmental effects. Ethylene glycol (107-21-1) LCS0 fish 1		May cause damage to organs through prolonged or repeated exposure.
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Diethylene glycol (111-46-6)		Expected to be highly mobile in soil.
- '		-1.98 (at 25 °C)
EN (English)		EN (English) 6/



12.5. Other adverse effects

Ozone : Not classified (Based on available data, the classification criteria are not met)

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Disposal methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

14.1. Basic shipping description

In accordance with TDG

Transportation of Dangerous Goods

Not regulated for transport

14.2. Transport information/DOT

Department of Transport

Not regulated for transport

14.3. Air and sea transport

IMDG

Not regulated for transport

ΙΔΤΔ

Not regulated for transport

SECTION 15: Regulatory information

15.1. National regulations

1,3-Propanediamine, N,N-bis[3-(dimethylamino)propyl]-N',N'-dimethyl- (33329-35-0)

Listed on the Canadian DSL (Domestic Substances List)

Ethylene glycol (107-21-1)

Listed on the Canadian DSL (Domestic Substances List)

Diethylene glycol (111-46-6)

Listed on the Canadian DSL (Domestic Substances List)

N-[2-(Dimethylamino)ethyl]-N,N',N'-trimethyl-1,2-ethanediamine (3030-47-5)

Listed on the Canadian DSL (Domestic Substances List)

Cyclohexanamine, N-cyclohexyl-N-methyl- (7560-83-0)

Listed on the Canadian DSL (Domestic Substances List)

15.2. International regulations

1,3-Propanediamine, N,N-bis[3-(dimethylamino)propyl]-N',N'-dimethyl- (33329-35-0)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

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

Listed on Turkish inventory of chemical

Ethylene glycol (107-21-1)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Japanese ISHL (Industrial Safety and Health Law)

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

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

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed on Turkish inventory of chemical

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Diethylene glycol (111-46-6)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Japanese ISHL (Industrial Safety and Health Law)

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

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

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed on Turkish inventory of chemical

N-[2-(Dimethylamino)ethyl]-N,N',N'-trimethyl-1,2-ethanediamine (3030-47-5)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

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Listed on the Japanese ISHL (Industrial Safety and Health Law)

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Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

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

Listed on Turkish inventory of chemical

Cyclohexanamine, N-cyclohexyl-N-methyl- (7560-83-0)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Japanese ISHL (Industrial Safety and Health Law)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

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

SECTION 16: Other information

Date of issue : 14 September 2018

Sources of Key data : according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU)

2015/830.

Other information : None.

Full text of H-statements:

text of 11-state	silents.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H331	Toxic if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure.

SDS Canada (GHS)

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