

# Safety Data Sheet

Material Name: Soudafoam Gap Fill Straw

SDS ID: SD-032 CAN

## Section 1 - PRODUCT AND COMPANY IDENTIFICATION

### Material Name

Soudafoam Gap Fill straw

### Product Use Recommended Use

Polyurethane

### Restrictions on Use

None known.

### Details of the supplier of the safety data sheet

#### Soudal Chemical Products

95 Avenue Lindsay

Dorval, QC H9P 2S6

Canada

+1-(514)497-1016

[Info.canada@soudal.com](mailto:info.canada@soudal.com)

Emergency phone number : +1-(800)-424-8300

## Section 2 - HAZARDS IDENTIFICATION

### Classification in accordance with Schedule 1 of Hazardous Products Regulations (HPR) (SOR/2015-17)

Flammable Aerosols - Category 1

Gases Under Pressure - Liquefied gas

Skin Corrosion/Irritation - Category 2

Serious Eye Damage/Eye Irritation - Category 2A

Respiratory Sensitization - Category 1A

Skin Sensitization - Category 1A

Carcinogenicity - Category 2

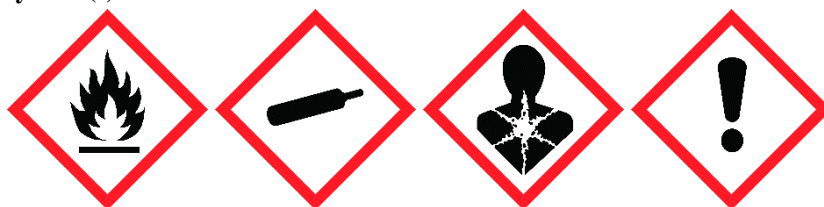
Reproductive Toxicity - Effects on or via Lactation

Specific Target Organ Toxicity - Single Exposure - Category 3

Specific Target Organ Toxicity - Repeated Exposure - Category 2 ( liver , thyroid gland )

### GHS Label Elements

#### Symbol(s)



### Signal Word

Danger

### Hazard Statement(s)

Extremely flammable aerosol.

Contains gas under pressure; may explode if heated.

Causes skin irritation.

Causes serious eye irritation.

May cause allergic or asthmatic symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

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Suspected of causing cancer.

May cause respiratory irritation. May cause drowsiness or dizziness.

May cause damage to organs through prolonged or repeated exposure.

## **Precautionary Statement(s)**

### **Prevention**

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Do not pierce or burn, even after use.

Do not spray on an open flame or other ignition sources.

Use only outdoors or in a well-ventilated area.

Wear protective gloves/protective clothing/eye protection/face protection.

Do not breathe dust/fume/gas/mist/vapors/spray.

Wear respiratory protection.

Wash thoroughly after handling.

Contaminated work clothing should not be allowed out of the workplace.

### **Response**

IF exposed or concerned: Get medical advice/attention.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

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

Continue rinsing.

IF ON SKIN: Wash with plenty of soap and water.

If skin irritation or rash occurs: Get medical advice/attention.

Take off contaminated clothing and wash before reuse.

Call a POISON CENTER or doctor if you feel unwell.

Specific treatment (see label).

### **Storage**

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

Store locked up.

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

### **Disposal**

Dispose of contents/container in accordance with local/regional/national/international regulations.

### **Other hazards**

Gas/vapor spreads at floor level: Ignition hazard.

## **Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS**

CAS	Component Name	Percent
9016-87-9	Polymethylene polyphenylene isocyanate	15-40
63449-39-8	Chlorinated paraffin waxes and hydrocarbon waxes	10-30
25791-96-2	Glyceryl polypropylene glycol triether	10-30
75-28-5	Isobutane	10-30
115-10-6	Dimethyl ether	5-10

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74-98-6	Propane	5-10
85535-85-9	Alkanes, C14-17, chloro	1-5

## Further information

The chemical identity and/or percentage of composition is being withheld as a trade secret.

## Section 4 - FIRST AID MEASURES

### Inhalation

Remove person to fresh air and keep comfortable for breathing. If breathing is difficult, oxygen should be administered by qualified personnel. Call a POISON CENTER or doctor/physician if you feel unwell.

### Skin

Wash with plenty of soap and water. Take off immediately all contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention.

### Eyes

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER or doctor/physician.

### Ingestion

Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell.

### Most Important Symptoms/Effects

#### Acute

Causes skin irritation. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause allergic skin reaction. May cause respiratory irritation. May cause drowsiness or dizziness.

#### Delayed

Suspected of causing cancer. May cause harm to breast-fed children. May cause damage to organs through prolonged or repeated exposure: thyroid gland, liver.

### Indication of any immediate medical attention and special treatment needed

Treat symptomatically and supportively.

## Section 5 - FIRE FIGHTING MEASURES

### Extinguishing Media

#### Suitable Extinguishing Media

Small fires: Quick-acting ABC-powder extinguisher, Quick-acting BC-powder extinguisher.

#### Unsuitable Extinguishing Media

Small fires: Quick-acting CO2 extinguisher, Water (water can be used to control jet flame), foam. In case of major fire and large quantities: Water (water can be used to control jet flame), foam.

### Special Hazards Arising from the Chemical

Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Pressurized container: Do not pierce or burn, even after use. May polymerize with evolution of heat.

### Hazardous Combustion Products

On burning: Irritating and toxic gases or fumes may be released during a fire: oxides of carbon, phosphorus, hydrogen chloride, nitrous vapors. On heating: May release toxic gases and combustible. gases: hydrogen cyanide.

### Advice for firefighters

Eliminate all sources of ignition. Do not spray on an open flame or other ignition sources. If safe to do so, move undamaged containers from the fire area. Keep unnecessary people away, isolate hazard area and deny entry. Cool containers with water from unmanned hose holder or monitor nozzles until well after fire is out. Let the fire burn. Stay away from the ends of tanks. Prevent entry into sewers, drains, ditches, underground or confined spaces and waterways. Avoid inhalation of material or combustion by-products.

### Special Protective Equipment and Precautions for Firefighters

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Wear full protective fire fighting gear including self contained breathing apparatus (SCBA) for protection against possible exposure.

## Section 6 - ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment and Emergency Procedures

Wear personal protective clothing and equipment, see Section 8.

### Methods and Materials for Containment and Cleaning Up

Eliminate all ignition sources if safe to do so. Stop leak if safe to do so. Reduce vapors with water spray. Small spills: Absorb spill with sand or other non-combustible material. Collect spilled material in appropriate container for disposal. Large spills: Dike for later disposal. Keep unnecessary people away, isolate hazard area and deny entry.

Stay upwind and keep out of low areas.

### Environmental Precautions

Avoid release to the environment.

## Section 7 - HANDLING AND STORAGE

### Precautions for Safe Handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

Pressurized container: Do not pierce or burn, even after use. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use only outdoors or in a well-ventilated area. Do not spray on an open flame or other ignition sources. Ground/Bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Take action to prevent static discharges. Do not breathe vapor or spray. Use non-sparking tools. Contaminated work clothing must not be allowed out of the workplace. Do not eat, drink, or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling.

### Conditions for Safe Storage, Including any Incompatibilities

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

Store locked up.

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

### Incompatible Materials

strong acids, strong bases

## Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

### Component Exposure Limits

<b>Polymethylene polyphenylene isocyanate</b>	<b>9016-87-9</b>
Alberta	0.005 ppm TWA ; 0.07 mg/m <sup>3</sup> TWA
<b>Isobutane</b>	<b>75-28-5</b>
British Columbia	1000 ppm STEL
Northwest Territories	1000 ppm TWA
	1250 ppm STEL
Nova Scotia	1000 ppm STEL (explosion hazard )
Nunavut	1000 ppm TWA

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	1250 ppm STEL
Ontario	1000 ppm STEL
Prince Edward Island	1000 ppm STEL (explosion hazard )
Saskatchewan	1000 ppm TWA
	1250 ppm STEL
ACGIH:	1000 ppm STEL (explosion hazard )
<b>Dimethyl ether</b>	<b>115-10-6</b>
British Columbia	1000 ppm TWA
<b>Propane</b>	<b>74-98-6</b>
Alberta	1000 ppm TWA
Manitoba	(See Appendix F: Minimal Oxygen Content, explosion hazard )
Northwest Territories	1000 ppm TWA
	1250 ppm STEL
Nova Scotia	(See Appendix F: Minimal Oxygen Content, explosion hazard )
Nunavut	1000 ppm TWA
	1250 ppm STEL
Ontario	(See Appendix F: Minimal Oxygen Content )
Prince Edward Island	(See Appendix F: Minimal Oxygen Content, explosion hazard )
Quebec	1000 ppm TWAEV ; 1800 mg/m3 TWAEV
Saskatchewan	1000 ppm TWA
	1250 ppm STEL
ACGIH:	(See Appendix F: Minimal Oxygen Content, explosion hazard )

**ACGIH - Threshold Limit Values - Biological Exposure Indices (BEI)**

There are no biological limit values for any of this product's components.

**Engineering Controls**

Ventilation equipment should be explosion-resistant if explosive concentrations of material are present. Provide local exhaust or process enclosure ventilation system. Ensure compliance with applicable exposure limits.

**Individual Protection Measures, such as Personal Protective Equipment**

**Eye/face protection**

Wear splash resistant safety goggles with a faceshield.

**Skin Protection**

Wear chemical resistant protective clothing. Wear fire/flame resistant/retardant clothing.

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### Respiratory Protection

If ventilation cannot reduce airborne concentrations below acceptable limits, appropriate respiratory protection should be used. Consult with a health and safety professional for specific respirators appropriate for your use.

### Glove Recommendations

Wear appropriate chemical resistant gloves.

### Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Aerosol, variable in color, depending on the composition	<b>Physical State</b>	aerosol
<b>Odor</b>	characteristic odor	<b>Color</b>	Variable in color, depending on the composition
<b>Odor Threshold</b>	Not available	<b>pH</b>	Not available
<b>Melting Point</b>	Not available	<b>Boiling Point</b>	Not available
<b>Boiling Point Range</b>	Not available	<b>Freezing point</b>	Not available
<b>Evaporation Rate</b>	Not available	<b>Flammability (solid, gas)</b>	Extremely flammable aerosol
<b>Autoignition Temperature</b>	Not available	<b>Flash Point</b>	(Not applicable )
<b>Lower Explosive Limit</b>	No chemical group associated with explosive properties	<b>Decomposition temperature</b>	Not available
<b>Upper Explosive Limit</b>	No chemical group associated with explosive properties	<b>Vapor Pressure</b>	Not available
<b>Vapor Density (air=1)</b>	>1 (relative )	<b>Specific Gravity (water=1)</b>	0.95 at 20 °C
<b>Water Solubility</b>	Insoluble	<b>Partition coefficient: n-octanol/water</b>	Not available
<b>Viscosity</b>	Not available	<b>Kinematic viscosity</b>	Not available
<b>Solubility (Other)</b>	organic solvents; soluble	<b>Density</b>	Not available
<b>Log KOW</b>	(Not applicable - mixture )	<b>Physical Form</b>	aerosol
<b>Molecular Weight</b>	Not available	<b>Oxidising properties</b>	No chemical group associated with oxidising properties.

### Other Information

Absolute Density: 946.8 kg/m<sup>3</sup>; 20 C.

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## Section 10 - STABILITY AND REACTIVITY

### Reactivity

Reacts violently with acids bases. May be ignited by heat, sparks or flames. Gas/vapor spreads at floor level: Ignition hazard.

### Chemical Stability

Stable under normal conditions of storage and handling.

### Possibility of Hazardous Reactions

May polymerize: strong bases, amines.

### Conditions to Avoid

Keep away from heat, sparks and naked flames. Keep away from ignition sources - No smoking. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Avoid contact with incompatible materials.

### Incompatible Materials

strong acids, strong bases

### Hazardous decomposition products

On heating. May release toxic gases, combustible gases, vapors: hydrogen cyanide. On burning: Irritating and toxic gases or fumes may be released during a fire: oxides of carbon, phosphorus, hydrogen chloride, nitrous vapors.

## Section 11 - TOXICOLOGICAL INFORMATION

### Information on Likely Routes of Exposure

#### Inhalation

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

#### Skin Contact

Causes skin irritation. May cause allergic skin reaction.

#### Eye Contact

Causes serious eye irritation. May cause redness, pain, and tearing.

#### Ingestion

No information on significant adverse effects.

#### Acute and Chronic Toxicity

##### Component Analysis - LD50/LC50

The components of this material have been reviewed in various sources and the following selected endpoints are published:

##### Polymethylene polyphenylene isocyanate (9016-87-9)

Oral LD50 Rat 49 g/kg

Dermal LD50 Rabbit >9.4 g/kg

Inhalation LC50 Rat 11 mg/L 4 h

##### Chlorinated paraffin waxes and hydrocarbon waxes (63449-39-8)

Oral LD50 Rat >21500 µL/kg

##### Glyceryl polypropylene glycol triether (25791-96-2)

Oral LD50 Rat 2830 µL/kg

Dermal LD50 Rabbit >20 mL/kg

##### Isobutane (75-28-5)

Inhalation LC50 Rat 658 mg/L 4 h

##### Dimethyl ether (115-10-6)

Inhalation LC50 Rat 164000 ppm 4 h

##### Propane (74-98-6)

Inhalation LC50 Rat >800000 ppm 15 min

##### Alkanes, C14-17, chloro (85535-85-9)

Oral LD50 Rat 2000 mg/kg

### Product Toxicity Data

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**Acute Toxicity Estimate**

Dermal	> 2000 mg/kg
Oral	> 2000 mg/kg

**Immediate Effects**

Causes skin irritation. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. May cause respiratory irritation. May cause drowsiness or dizziness.

**Delayed Effects**

Suspected of causing cancer. May cause harm to breast-fed children. May cause damage to organs through prolonged or repeated exposure: thyroid gland, liver.

**Irritation/Corrosivity Data**

eye irritation, skin irritation, respiratory tract irritation

**Respiratory Sensitization**

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

**Dermal Sensitization**

May cause an allergic skin reaction.

**Component Carcinogenicity**

<b>Polymethylene polyphenylene isocyanate</b>	<b>9016-87-9</b>
IARC:	Supplement 7 [1987] ; Monograph 19 [1979] (Group 3 (not classifiable))
DFG:	Category 4 (no significant contribution to human cancer )
<b>Chlorinated paraffin waxes and hydrocarbon waxes</b>	<b>63449-39-8</b>
IARC:	Monograph 48 [1990] (Group 2B (possibly carcinogenic to humans))
DFG:	Category 3B (could be carcinogenic for man )
OSHA:	Present

Suspected of causing cancer.

**Germ Cell Mutagenicity**

No information available for the product.

**Tumorigenic Data**

No information available for the product.

**Reproductive Toxicity**

May cause harm to breast-fed children.

**Specific Target Organ Toxicity - Single Exposure**

No target organs identified.

**Specific Target Organ Toxicity - Repeated Exposure**

**Aspiration hazard**

Not expected to be an aspiration hazard.

**Medical Conditions Aggravated by Exposure**

No information available for the product.

**Section 12 - ECOLOGICAL INFORMATION**



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## Component Analysis - Aquatic Toxicity

<b>Chlorinated paraffin waxes and hydrocarbon waxes</b>	<b>63449-39-8</b>
Fish:	LC50 96 h <i>Lepomis macrochirus</i> >300 mg/L [static ]; LC50 96 h <i>Oncorhynchus mykiss</i> >0.0109 mg/L [flow-through ]; LC50 96 h <i>Oncorhynchus mykiss</i> 94.5 - 271 mg/L [static ]; LC50 96 h <i>Lepomis macrochirus</i> >0.1 mg/L [flow-through ]; LC50 96 h <i>Pimephales promelas</i> >100 mg/L [static ]
<b>Dimethyl ether</b>	<b>115-10-6</b>
Fish:	LC50 96 h <i>Poecilia reticulata</i> >4.1 g/L [semi-static ]

### Persistence and Degradability

Not readily biodegradable (according to OECD criteria).

### Bioaccumulative Potential

No information available for the product.

### Mobility

No information available for the product.

### Bioconcentration

No information available for the product.

### Other Toxicity

No additional information available for the product.

## Section 13 - DISPOSAL CONSIDERATIONS

### Disposal Methods

Dispose of contents/container in accordance with local/regional/national/international regulation.

## Section 14 - TRANSPORT INFORMATION

### US DOT Information:

**Shipping Name:** AEROSOLS, FLAMMABLE

**Hazard Class:** 2

**UN/NA #:** UN1950

**Required Label(s):** 2.1

Marine pollutant

### IATA Information:

**Shipping Name:** AEROSOLS, FLAMMABLE

**Hazard Class:** 2.1

**UN#:** UN1950

**Required Label(s):** 2.1

Marine pollutant

### ICAO Information:

**Shipping Name:** AEROSOLS, FLAMMABLE

**Hazard Class:** 2.1

**UN#:** UN1950

**Required Label(s):** 2.1

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Marine pollutant

### IMDG Information:

**Shipping Name:** AEROSOLS, FLAMMABLE

**Hazard Class:** 2

**UN#:** UN1950

**Required Label(s):** 2

Marine pollutant

### TDG Information:

**Shipping Name:** AEROSOLS, FLAMMABLE

**Hazard Class:** 2.1

**UN#:** UN1950

**Required Label(s):** 2.1

Marine pollutant

### International Bulk Chemical Code

This material contains one or more of the following chemicals required by the IBC Code to be identified as dangerous chemicals in bulk.

<b>Polymethylene polyphenylene isocyanate</b>	<b>9016-87-9</b>
IBC Code:	Category Y
<b>Glyceryl polypropylene glycol triether</b>	<b>25791-96-2</b>
IBC Code:	Category Z
<b>Alkanes, C14-17, chloro</b>	<b>85535-85-9</b>
IBC Code:	Category X (with >=50% Chlorine, and <1% C13 or shorter chains )

## Section 15 - REGULATORY INFORMATION

### Canada Regulations

#### CEPA - Priority Substances List

None of this product's components are on the list.

#### Ozone Depleting Substances

None of this product's components are on the list.

#### Council of Ministers of the Environment - Soil Quality Guidelines

None of this product's components are on the list.

#### Council of Ministers of the Environment - Water Quality Guidelines

None of this product's components are on the list.

### U.S. Federal Regulations

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), and/or require an OSHA process safety plan.

<b>Polymethylene polyphenylene isocyanate</b>	<b>9016-87-9</b>
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SARA 313:	1 % de minimis concentration
Alkanes, C14-17, chloro	85535-85-9
TSCA 12b:	Section 5 , 1 % de minimus concentration EPA: P-12-0453

**Component Analysis - Inventory**

**Polymethylene polyphenylene isocyanate (9016-87-9)**

US	CA	AU	CN	EU	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2
Yes	DSL	Yes	Yes	No	Yes	Yes	Yes	No

KR - REACH CCA	MX	NZ	PH	TH-TECI	TW	VN (Draft)
No	Yes	Yes	Yes	No	Yes	Yes

**Chlorinated paraffin waxes and hydrocarbon waxes (63449-39-8)**

US	CA	AU	CN	EU	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2
Yes	DSL	Yes	Yes	EIN	Yes	Yes	Yes	No

KR - REACH CCA	MX	NZ	PH	TH-TECI	TW	VN (Draft)
No	Yes	Yes	Yes	Yes	Yes	Yes

**Glyceryl polypropylene glycol triether (25791-96-2)**

US	CA	AU	CN	EU	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2
Yes	DSL	Yes	Yes	No	Yes	Yes	Yes	No

KR - REACH CCA	MX	NZ	PH	TH-TECI	TW	VN (Draft)
No	No	Yes	Yes	Yes	Yes	Yes

**Isobutane (75-28-5)**

US	CA	AU	CN	EU	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2
Yes	DSL	Yes	Yes	EIN	Yes	Yes	Yes	No

KR - REACH CCA	MX	NZ	PH	TH-TECI	TW	VN (Draft)
No	Yes	Yes	Yes	Yes	Yes	Yes

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### Dimethyl ether (115-10-6)

US	CA	AU	CN	EU	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2
Yes	DSL	Yes	Yes	EIN	Yes	Yes	Yes	No

KR - REACH CCA	MX	NZ	PH	TH-TECI	TW	VN (Draft)
No	Yes	Yes	Yes	Yes	Yes	Yes

### Propane (74-98-6)

US	CA	AU	CN	EU	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2
Yes	DSL	Yes	Yes	EIN	Yes	Yes	Yes	No

KR - REACH CCA	MX	NZ	PH	TH-TECI	TW	VN (Draft)
No	Yes	Yes	Yes	Yes	Yes	Yes

### Alkanes, C14-17, chloro (85535-85-9)

US	CA	AU	CN	EU	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2
Yes	DSL	Yes	Yes	EIN	No	No	Yes	No

KR - REACH CCA	MX	NZ	PH	TH-TECI	TW	VN (Draft)
No	Yes	Yes	Yes	Yes	Yes	Yes

## Section 16 - OTHER INFORMATION

#### Summary of Changes

May 3, 2019 - Update to Section(s) 2, 3, 5, 15.

#### Issue Date

October 15, 2018

#### Revision Number and Date

May 3, 2019

#### Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CA/MA/MN/NJ/PA - California/Massachusetts/Minnesota/New Jersey/Pennsylvania\*; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CFR - Code of Federal Regulations (US); CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EC - European Commission; EEC - European Economic Community; EIN - European Inventory of (Existing Commercial Chemical Substances); EINECS - European Inventory of Existing

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Commercial Chemical Substances; ENCS - Japan Existing and New Chemical Substance Inventory; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; F - Background (for Venezuela Biological Exposure Indices); IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; ISHL - Japan Industrial Safety and Health Law; IUCLID - International Uniform Chemical Information Database; JP - Japan; Kow - Octanol/water partition coefficient; KR KECI Annex 1 - Korea Existing Chemicals Inventory (KECI) / Korea Existing Chemicals List (KECL); KR KECI Annex 2 - Korea Existing Chemicals Inventory (KECI) / Korea Existing Chemicals List (KECL) , KR - Korea; LD50/LC50 - Lethal Dose/ Lethal Concentration; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of LIsts™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; MX – Mexico; Ne- Non-specific; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; Nq - Non-quantitative; NSL – Non-Domestic Substance List (Canada); NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PEL- Permissible Exposure Limit; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH- Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; Sc - Semi-quantitative; STEL - Short-term Exposure Limit; TCCA – Korea Toxic Chemicals Control Act; TDG - Transportation of Dangerous Goods; TLV - Threshold Limit Value; TSCA - Toxic Substances Control Act; TW – Taiwan; TWA - Time Weighted Average; UEL - Upper Explosive Limit; UN/NA - United Nations /North American; US - United States; VLE - Exposure Limit Value (Mexico); VN (Draft) - Vietnam (Draft); WHMIS - Workplace Hazardous Materials Information System (Canada).

## **Other Information**

### **Disclaimer:**

Supplier gives no warranty whatsoever, including the warranties of merchantability or of fitness for a particular purpose. Any product purchased is sold on the assumption the purchaser shall determine the quality and suitability of the product. Supplier expressly disclaims any and all liability for incidental, consequential or any other damages arising out of the use or misuse of this product. No information provided shall be deemed to be a recommendation to use any product in conflict with any existing patent rights.