

# **SAFETY DATA SHEET EVOTHERM M1**

## Section 1. Identification

GHS product identifier	: EVOTHERM M1	
Other means of identification	: Not available.	L.
Material uses	: Asphalt additive	
Supplier's details	: Ingevity Corporation 5255 Virginia Avenue North Charleston South Carolina USA 29406-3615	
	www.ingevity.com email: sds@ingevity.com	
	Tal: 14 042 740 2200 14 000 450 4024	



Tel: +1 843 740 2300, +1 800 458 4034 (0800 - 1700 EST)

#### In case of emergency

## : +1 800 424 9300 (USA) CHEMTREC

### Section 2. Hazards identification

OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	: SKIN CORROSION - Category 1C SKIN SENSITIZATION - Category 1A
GHS label elements	

### Hazard pictograms



- Signal word
- : Danger

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**Hazard statements** 

: Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

#### **Precautionary statements**

r recautionary statements	
Prevention	: Wear protective gloves. Wear eye or face protection: Recommended: Safety glasses with side shields. splash goggles, or face shield. Wear protective clothing: Recommended: Lab coat, apron or coveralls. Avoid breathing vapor. Wash hands thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.
Response	: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or physician. IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or physician. IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical attention. 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 or physician.
Storage	: Store locked up.



## Section 2. Hazards identification

Disposal

: Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazards not otherwise classified

### Section 3. Composition/information on ingredients

Substance/mixture

: Substance

: None known.

Ingredient name	%	CAS number
Fatty amine derivatives	100	Proprietary

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First aid measures

Description of necessary	first aid measures
Eye contact	: Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 15 minutes. Chemical burns must be treated promptly by a physician.
Inhalation	: Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	: Get medical attention immediately. Call a poison center or physician. Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 15 minutes. Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed Potential acute health effects



Section 4. First ai	d measures
Eye contact	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Causes severe burns. May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.
<u>Over-exposure signs/sym</u>	<u>otoms</u>
Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains
Indication of immediate me	dical attention and special treatment needed, if necessary
Notes to physician	<ul> <li>In case of inhalation of decomposition products in a fire, symptoms may be delayed.</li> <li>The exposed person may need to be kept under medical surveillance for 48 hours.</li> </ul>
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides
Special protective actions for fire-fighters	<ul> <li>Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.</li> </ul>
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Remark	: Not considered to be a product presenting a risk of explosion.

# Section 6. Accidental release measures

Personal precautions,	protective eq	uipment and	emergency	procedures

For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for co	nt	ainment and cleaning up
Small spill	:	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

# Section 7. Handling and storage

Precautions for safe handling	
Protective measures	: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.



# Section 8. Exposure controls/personal protection

### **Control parameters**

### **Occupational exposure limits**

None.

Appropriate engineering controls	<ul> <li>If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.</li> </ul>
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection measure	<u>ures</u>
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/ or face shield. If inhalation hazards exist, a full-face respirator may be required instead. Recommended: Safety glasses with side shields. splash goggles, or face shield
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: Lab coat, apron or coveralls
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.



# Section 9. Physical and chemical properties

Ap	pe	ara	nce

Appearance		
Physical state	:	Liquid. [Viscous liquid.]
Color	:	Amber. [Dark]
Odor	1	Amine-like.
Odor threshold	:	Not available.
рН	1	10 - 12 [15% (w/w) (Isopropanol/water)]
Melting point	1	<-30°C (<-22°F)
Boiling point	:	>200°C (>392°F)
Flash point	:	Closed cup: >266°C (>510.8°F) [Pensky-Martens.] [Product does not sustain combustion.]
Burning time	:	Not applicable.
Burning rate	:	Not applicable.
Evaporation rate	1	<1 (ether (anhydrous) = 1)
Flammability (solid, gas)	:	Not applicable.
Lower and upper explosive (flammable) limits	1	No flammable ingredients present.
Vapor pressure	:	0 kPa (0 mm Hg) [room temperature]
Vapor density	:	>1 [Air = 1]
Relative density	:	0.97 [Water = 1]
Solubility	:	Partially soluble in the following materials: cold water and hot water.
Solubility in water	:	0.02 g/l
Partition coefficient: n- octanol/water	1	2.2
Auto-ignition temperature	:	365 to 375°C (689 to 707°F)
Decomposition temperature	:	Not available.
SADT	:	Not available.
Viscosity	:	Dynamic (room temperature): 127 mPa·s (127 cP)
Aerosol product		

Aerosol product

# Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	<ul> <li>Reactive or incompatible with the following materials: oxidizing materials, metals and acids.</li> </ul>
	DO NOT MIX WITH NITRITES. MAY FORM SUSPECTED CANCER CAUSING
	NITROSAMINES.



## Section 10. Stability and reactivity

Hazardous decomposition products

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

## Section 11. Toxicological information

### Information on toxicological effects

### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Fatty amine derivatives	LD50 Oral	Rat - Female	2500 mg/kg	-

### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Fatty amine derivatives	Skin - Visible necrosis	Rabbit	-	4 hours	14 days

#### Sensitization

<b>•</b> •••••••••••••••••••••••••••••••••••	Route of exposure	Species	Result
Fatty amine derivatives	skin	Guinea pig	Sensitizing

#### Mutagenicity

Product/ingredient name	Test	Experiment	Result
Fatty amine derivatives	OECD 471 Bacterial Reverse Mutation Test OECD 476 <i>In vitro</i> Mammalian Cell Gene Mutation Test	Experiment: In vitro Subject: Bacteria Experiment: In vitro Subject: Mammalian-Animal	Negative Negative

#### Carcinogenicity

Not available.

#### Reproductive toxicity

Product/ingredient name	Maternal toxicity	Fertility	Development toxin	Species	Dose	Exposure
Fatty amine derivatives	-	Negative	Negative	Rat - Male, Female	Oral	-

#### Teratogenicity

Not available.

#### Specific target organ toxicity (single exposure)

Not available.

#### Specific target organ toxicity (repeated exposure)

Not available.

#### Aspiration hazard

Not available.

# Information on the likely : Routes or routes of exposure

: Routes of entry anticipated: Oral, Dermal, Inhalation.

### Potential acute health effects

- Eye contact
- : No known significant effects or critical hazards.



#### Section 11. Toxicological information Inhalation : No known significant effects or critical hazards. Skin contact : Causes severe burns. May cause an allergic skin reaction. : No known significant effects or critical hazards. Ingestion Symptoms related to the physical, chemical and toxicological characteristics : Adverse symptoms may include the following: Eye contact pain watering redness Inhalation No specific data. 20 **Skin contact** : Adverse symptoms may include the following: pain or irritation redness blistering may occur Ingestion : Adverse symptoms may include the following: stomach pains Delayed and immediate effects and also chronic effects from short and long term exposure Short term exposure **Potential immediate** : Not available. effects Potential delayed effects : Not available. Long term exposure

Potential immediate : Not available.

Potential delayed effects : Not available.

#### Potential chronic health effects

effects

Product/ingredient name	Result	Species	Dose	Exposure	
Fatty amine derivatives	Sub-acute NOAEL Oral	Rat - Male, Female	300 mg/kg	-	
General	: Once sensitized, a severe very low levels.	allergic reaction may	occur when subse	equently exposed to	
Carcinogenicity	: No known significant effects or critical hazards.				
Mutagenicity	: No known significant effects or critical hazards.				
Teratogenicity	: No known significant effects or critical hazards.				
Developmental effects	: No known significant effects or critical hazards.				
Fertility effects	: No known significant effect	s or critical hazards.			

#### Numerical measures of toxicity

Acute toxicity estimates

Not available.



## Section 12. Ecological information

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
Fatty amine derivatives	Acute EC10 0.395 mg/l Fresh water	Algae - Pseudokirchnerella subcapitata	72 hours
	Acute EC50 0.638 mg/l Fresh water	Algae - Pseudokirchnerella subcapitata	72 hours
	Acute EC50 0.18 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 0.19 mg/l Fresh water Chronic NOEC 0.32 mg/l Fresh water	Fish - Danio rerio Daphnia - Daphnia magna	96 hours 21 days

#### Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
Fatty amine derivatives	OECD 301D Ready Biodegradability - Closed Bottle Test	17 % - 28 0	days	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
Fatty amine derivatives	Fresh water 28 days, 20°C (Hydrolysis)		-		Inheren	t

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Fatty amine derivatives	2.2	17.4	low

#### Mobility in soil

Soil/water partition	:	944980
coefficient (Koc)		

**Other adverse effects** : No known significant effects or critical hazards.

### Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.



## Section 14. Transport information

	DOT Classification	IMDG	ΙΑΤΑ
UN number	UN3267	UN3267	UN3267
UN proper shipping name	Corrosive liquid, basic, organic, n.o.s. (Fatty amine derivatives). Marine pollutant (Fatty amine derivatives)	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (Fatty amine derivatives). Marine pollutant (Fatty amine derivatives)	Corrosive liquid, basic, organic, n.o.s. (Fatty amine derivatives)
Transport hazard class(es)	8 Connector	8	8
Packing group	Ш	Ш	Ш
Environmental hazards	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Additional information	This product is not regulated as a marine pollutant when transported on inland waterways in sizes of ≤5 L or ≤5 kg or by road, rail, or inland air in non- bulk sizes, provided the packagings meet the general provisions of §§ 173.24 and 173. 24a. Limited quantity Yes. Packaging instruction Exceptions: 154. Non-bulk: 203. Bulk: 241. Quantity limitation Passenger aircraft/rail: 5 L. Cargo aircraft: 60 L. Special provisions IB3, T7, TP1, TP28	The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. <u>Emergency schedules</u> F-A, S-B <u>Special provisions</u> 223, 274	The environmentally hazardous substance mark may appear if required by other transportation regulations. <b>Quantity limitation</b> Passenger and Cargo Aircraft: 5 L. Packaging instructions: 852. Cargo Aircraft Only: 60 L. Packaging instructions: 856. Limited Quantities - Passenger Aircraft: 1 L. Packaging instructions: Y841. <b>Special provisions</b> A3, A803

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not available. to Annex II of MARPOL and the IBC Code



## Section 15. Regulatory information

U.S. Federal regulations :		SCA 8(a) CDR Exe	mpt/Partial exemption: Not determined
	U	nited States invent	tory (TSCA 8b): This material is listed or exempted.
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	: N	ot listed	
Clean Air Act Section 602 Class I Substances	: N	ot listed	
Clean Air Act Section 602 Class II Substances	: N	ot listed	
DEA List I Chemicals (Precursor Chemicals)	: N	ot listed	
DEA List II Chemicals (Essential Chemicals)	: N	ot listed	
<u>SARA 302/304</u>			
Composition/information	on ing	<u>redients</u>	
No products were found.			
SARA 304 RQ	: N	ot applicable.	
<u>SARA 311/312</u>			
Classification		KIN CORROSION - KIN SENSITIZATIO	
Composition/information	on ing	<u>redients</u>	
Name		%	Classification
Fatty amine derivatives		Proprietary	SKIN CORROSION - Category 1C SKIN SENSITIZATION - Category 1A
State regulations			
Massachusetts	: This material is not listed.		
New York	: This material is not listed.		
New Jersey	: This material is not listed.		
Pennsylvania	: T	nis material is not lis	sted.
California Prop. 65			
Not listed.			
International regulations			
Chemical Weapon Convention	on Lis	t Schedules I, II &	III Chemicals
Not listed.			

Montreal Protocol (Annexes A, B, C, E)

Not listed.

Stockholm Convention on Persistent Organic Pollutants Not listed.

Rotterdam Convention on Prior Informed Consent (PIC) Not listed.

**UNECE Aarhus Protocol on POPs and Heavy Metals** 

## Section 15. Regulatory information

#### Not listed.

International lists	
National inventory	
Australia	: This material is listed or exempted.
Canada	: This material is listed or exempted.
China	: This material is listed or exempted.
Japan	: Japan inventory (ENCS): This material is listed or exempted. Japan inventory (ISHL): Not determined.
New Zealand	: This material is listed or exempted.
Philippines	: This material is listed or exempted.
Republic of Korea	: This material is listed or exempted.
Taiwan	: This material is listed or exempted.
United States	: This material is listed or exempted.
	Inventories status may be, in part, based on an alternate CAS number / name,

### Section 16. Other information

Hazardous Material Information System (U.S.A.)



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

#### National Fire Protection Association (U.S.A.)



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

#### **History**

**Date of printing** 

: 2018-08-30.



# Section 16. Other information

Date of issue/Date of revision	: 2018-08-30
Date of previous issue	: 2018-08-02.
Version	: 2.08
Key to abbreviations	<ul> <li>ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = International Air Transport Association IBC = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations</li> </ul>
References	: Not available.

Indicates information that has changed from previously issued version.

Notice to reader

To 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 or 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 herein, we cannot guarantee that these are the only hazards that exist.