# **SAFETY DATA SHEET**



BG Diesel ISC®

# 1. Product and company identification

Manufacturer	BG Products Inc. 701 S. Wichita Street			
	Wichita, KS, 67213, USA			
www.bgprod.com Relevant identified uses of the substance or mixture and uses advised against				
Identified uses				
Fuel additives				
MSDS #	: 255			
Validation date	: 8/12/2014.			
Responsible name	: Kolin Anglin, Environmental Coordinator 316-265-2686 msds@bgprod.com			
In case of emergency	: (800) 424-9300 (CHEMTREC)			
2. Hazards ide	ntification			
OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).			
Classification of the substance or mixture	: FLAMMABLE LIQUIDS - Category 4 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A			
	Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 87.1%			
GHS label elements				
Hazard pictograms				
Signal word	: Warning			
Hazard statements	: Combustible liquid. Causes serious eye irritation.			
Precautionary statements	È de la constante d			
Prevention	<ul> <li>Wear protective gloves. Wear eye or face protection. Keep away from flames and hot surfaces No smoking. Wash hands thoroughly after handling.</li> </ul>			
Response	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.			
Storage	: Store in a well-ventilated place. Keep cool.			
Disposal	<ul> <li>Dispose of contents and container in accordance with all local, regional, national and international regulations.</li> </ul>			
Hazards not otherwise classified	: None known.			

# 3. Composition/information on ingredients

Substance/mixture		÷	Mixture
	Other means of identification	:	Not available.
	CAS number/other identifiers		
	CAS number	÷	Not applicable.
	Product code	:	255
	Ingredient name		
	(2-methoxymethylethoxy)propa tetrahydro-2-furylmethanol 3-morpholinopropylamine 2-ethylhexanoic acid	no	I

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

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section. Occupational exposure limits, if available, are listed in Section 8.

%

15 - 40

0.5 - 1.5

5 - 10

1 - 5

**CAS number** 

34590-94-8

97-99-4

123-00-2

149-57-5

## 4. First aid measures

#### Description of necessary first aid measures

Eye contact	:	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 10 minutes. Get medical attention.
Inhalation	-	Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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. Get medical attention if adverse health effects persist or are severe. 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	:	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	:	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. Get medical attention if adverse health effects persist or are severe. 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/ef	fec	ts, acute and delayed
Potential acute health effect	<u>s</u>	

Fotential acute fiealth effects	
Eye contact :	Causes serious eye irritation.
Inhalation	Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
Skin contact	No known significant effects or critical hazards.
Ingestion	Irritating to mouth, throat and stomach.
Over-exposure signs/sympton	<u>ns</u>

**BG Diesel ISC®** 

## 4. First aid measures

Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	: No specific data.
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. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
See toxicological information	on (Section 11)

# 5. Fire-fighting measures

#### **Extinguishing media** Suitable extinguishing : Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam. media Unsuitable extinguishing : Do not use water jet. media Specific hazards arising : Combustible liquid. In a fire or if heated, a pressure increase will occur and the from the chemical container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard. **Hazardous thermal** : Decomposition products may include the following materials: decomposition products carbon dioxide carbon monoxide nitrogen oxides Promptly isolate the scene by removing all persons from the vicinity of the incident if **Special protective actions** ÷. there is a fire. No action shall be taken involving any personal risk or without suitable for fire-fighters training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. Fire-fighters should wear appropriate protective equipment and self-contained breathing **Special protective** apparatus (SCBA) with a full face-piece operated in positive pressure mode. equipment for fire-fighters

## 6. Accidental release measures

Personal precautions, protec	tive equipment 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. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialised 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	ntainment and cleaning up

Date of issue/Date of revision

#### Accidental release measures 6.

Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. 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. Use spark-proof tools and explosion-proof equipment. 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.

#### 7. Handling and storage

## Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. 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 a segregated and approved area. 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. Eliminate all ignition sources. Separate from oxidizing materials. 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.

#### **Exposure controls/personal protection** 8.

## **Control parameters**

#### **Occupational exposure limits**

Ingredient name			Exposure limits		
(2-methoxymethylethoxy)propanol			ACGIH TLV (U	nited States, 3/2012).	
			Absorbed through skin.		
			TWA: 100 ppr	-	
			TWA: 606 mg		
			STEL: 150 pp		
			STEL: 909 mg	g/m³ 15 minutes.	
				89 (United States, 3/1989	9).
			Absorbed thro	ough skin.	•
			TWA: 100 ppr	m 8 hours.	
			TWA: 600 mg		
			STEL: 150 pp		
				g/m³ 15 minutes.	
				nited States, 6/2009).	
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: 5/1/2013.

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# 8. Exposure controls/personal protection

	Absorbed through skin.			
	TWA: 100 ppm 10 hours.			
	TWA: 600 mg/m <sup>3</sup> 10 hours.			
	STEL: 150 ppm 15 minutes.			
	STEL: 900 mg/m <sup>3</sup> 15 minutes.			
	OSHA PEL (United States, 6/2010).			
	Absorbed through skin.			
	TWA: 100 ppm 8 hours.			
	TWA: 600 mg/m <sup>3</sup> 8 hours.			
Tetrahydrofurfuryl alcohol	AIHA WEEL (United States, 10/2011).			
	TWA: 0.5 ppm 8 hours.			
2-ethylhexanoic acid	ACGIH TLV (United States, 3/2012).			
	TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Inhalable			
	fraction and vapor			
Appropriate engineering controls	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.			
Environmental exposure	Emissions from ventilation or work process equipment should be checked to ensure			
controls	they comply with the requirements of environmental protection legislation.			
Individual protection measure	<u>ires</u>			
Hygiene measures	<ul> <li>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. Wash contaminated clothing before reusing.</li> </ul>			
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.			
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. 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.			
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	: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.			

# 9. Physical and chemical properties

Physical state	: Liquid.
Flash point	: Closed cup: 77°C (170.6°F) [Pensky-Martens.]
Auto-ignition temperature	: Not available.
Flammable limits	: Not available.
Color	: Green.
Odor	: Solvents
рН	: 10.35
<b>Boiling/condensation point</b>	: 100°C (212°F)

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# 9. Physical and chemical properties

Melting/freezing point	: Not available.
Specific gravity	: 0.9929
Vapor pressure	: Not available.
Vapor density	: Not available.
Odor threshold	: Not available.
Evaporation rate	: Not available.
Solubility	: Very slightly soluble in the following materials: cold water and hot water.
Pour point	: -11°C (12.2°F)
Density	: 8.286 (lbs/gal)
VOC content	: 28.9 % (w/w)

# 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	: Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
Incompatible materials	<ul> <li>Reactive or incompatible with the following materials: oxidizing materials</li> </ul>
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
Tetrahydrofurfuryl alcohol 3-morpholinopropylamine 2-ethylhexanoic acid	LD50 Oral LD50 Oral LD50 Oral	Rat	1600 mg/kg 3560 mg/kg 1600 mg/kg	-

## Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observatior
(2-methoxymethylethoxy) propanol	Eyes - Mild irritant	Human	-	8 milligrams	-
	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	500 milligrams	-
Tetrahydrofurfuryl alcohol	Eyes - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-
3-morpholinopropylamine	Eyes - Severe irritant	Rabbit	-	-	-
	Skin - Severe irritant	Rabbit	-	-	-
2-ethylhexanoic acid	Eyes - Severe irritant Skin - Mild irritant	Rabbit Rabbit	-	20 milligrams 450 milligrams	-

#### **Sensitization**

Not available.

#### **Mutagenicity**

# Section 11. Toxicological information

Not available.		
Carcinogenicity Not available.		
Reproductive toxicity Not available.		
Teratogenicity Not available.		
Specific target organ toxici Not available.	<u>ty (</u>	<u>single exposure)</u>
Specific target organ toxici	ty (	repeated exposure)
Not available.		
Aspiration hazard Not available.		
Information on the likely routes of exposure	:	Not available.
Potential acute health effects	2	
Eye contact	:	Causes serious eye irritation.
Inhalation		Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
Skin contact		No known significant effects or critical hazards.
Ingestion		Irritating to mouth, throat and stomach.
	<u>/sic</u>	cal, chemical and toxicological characteristics
Eye contact	:	Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	:	No specific data.
Skin contact	:	No specific data.
Ingestion	1	No specific data.
Delayed and immediate effect	<u>ts</u>	and also chronic effects from short and long term exposure
<u>Short term exposure</u>		
Potential immediate effects	:	Not available.
Potential delayed effects	4	Not available.
Long term exposure		
Potential immediate effects		Not available.
Potential delayed effects		Not available.
Potential chronic health eff Not available.	<u>ect</u>	<u>S</u>
General	:	No known significant effects or critical hazards.
Carcinogenicity		No known significant effects or critical hazards.
Mutagenicity		No known significant effects or critical hazards.
Teratogenicity		No known significant effects or critical hazards.
		-

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Section 11. Toxic	ological inforn	nation			
Developmental effects	: No known significant effects or critical hazards.				
Fertility effects	: No known significant effects or critical hazards.				
Numerical measures of toxi	<u>icity</u>				
Acute toxicity estimates					
Route		ATE va	lue		
Oral		8804.7	mg/kg		
12. Ecological in	formation				
<u>Toxicity</u>					
Not available.					
Persistence and degradabil	<u>ity</u>				
Not available.					
Bioaccumulative potential					
Product/ingredient name	LogPow	BCF	Potential		

Product/ingredient name 2-ethylhexanoic acid	LogP <sub>ow</sub> 2.64	BCF -	Potential low
Mobility in soil Soil/water partition coefficient (K <sub>oc</sub> )	: Not available.	•	·
Other adverse effects	: No known significant effects	or critical hazards.	

# 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. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

## 14. Transport information

	DOT Classification	IME	)G	IATA	
UN number	Not regulated.	Not regulated.		Not regulated.	
UN proper shipping name	-	-		-	
Date of issue/Date of	revision : 8/12/2014.	Date of previous issue	: 5/1/2013.	Version : 3.1	8/12

ort information		
-	-	-
-	-	-
No.	No.	No.
-	-	-
upright and sec	ure. Ensure that persons transporting	
according : Not available. RPOL Code		
	- No.  - No.  - ns for user : Transport with upright and sec event of an acc according : Not available. RPOL	-       -         -       -         No.       No.         -       -         ns for user       : Transport within user's premises: always transport upright and secure. Ensure that persons transporting event of an accident or spillage.         according       : Not available.         RPOL       -

## 15. Regulatory information

# U.S. Federal regulations : TSCA 8(a) PAIR: (2-methoxymethylethoxy)propanol TSCA 8(a) CDR Exempt/Partial exemption: Not determined United States inventory (TSCA 8b): All components are listed or exempted. Clean Water Act (CWA) 307: ethylbenzene Clean Water Act (CWA) 311: propylene oxide; xylene; ethylbenzene

#### SARA 302/304

### **Composition/information on ingredients**

			SARA 302	RA 302 TPQ		SARA 304 RQ	
Name		EHS	(lbs)	(gallons)	(lbs)	(gallons)	
propylene oxide		Yes.	10000	1499.2	100	15	
SARA 304 RQ	: 1111111111.1 lbs / 504444444.4 kg [134213036.6 gal / 508051610.9 L]						

## SARA 311/312

Classification

: Fire hazard Immediate (acute) health hazard

Delayed (chronic) health hazard

#### **Composition/information on ingredients**

Name	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
(2-methoxymethylethoxy)propanol	Yes.	No.	No.	No.	Yes.
tetrahydro-2-furylmethanol	Yes.	No.	No.	Yes.	No.
3-morpholinopropylamine	Yes.	No.	No.	Yes.	Yes.
2-ethylhexanoic acid	No.	No.	No.	Yes.	Yes.

#### SARA 313

#### **Regulatory information** 15.

	Product name	CAS number
Form R - Reporting requirements		
Supplier notification		

SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

State regulations	
Massachusetts	<ul> <li>The following components are listed: DIPROPYLENE GLYCOL METHYL ETHER; TETRAHYDROFURFURYL ALCOHOL; N-(3-AMINOPROPYL) MORPHOLINE</li> </ul>
New York	: None of the components are listed.
New Jersey	<ul> <li>The following components are listed: DIPROPYLENE GLYCOL METHYL ETHER; (2-METHOXYMETHYLETHOXY) PROPANOL; AMINOPROPYLMORPHOLINE;</li> <li>4-MORPHOLINEPROPANAMINE; 2-ETHYLHEXANOIC ACID; HEXANOIC ACID, 2-ETHYL-</li> </ul>
Pennsylvania	<ul> <li>The following components are listed: PROPANOL, (2-METHOXYMETHYLETHOXY)-;</li> <li>2-FURANMETHANOL, TETRAHYDRO-; 4-MORPHOLINEPROPANAMINE</li> </ul>

#### California Prop. 65

WARNING: This product contains less than 0.1% of a chemical known to the State of California to cause cancer. WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. \_\_\_\_ ----

Ingredient name		Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
2-ethylhexanoic acid ethylbenzene		No. Yes.	Yes. No.	No. 41 µg/day (ingestion) 54 µg/day (inhalation)	No. No.
1,4-dioxane propylene oxide		Yes. Yes.	No. No.	Yes. No.	No. No.
United States inventory (TSCA 8b)	: All compo	nents are lis	sted or exempted.		
anada					
WHMIS (Canada)	(200°F).	: Combustit	·	point between 37.8°C (1	00°F) and 93.3°C
Canadian lists					
Canadian NPRI	: None of the	ne compone	ents are listed.		

**CEPA Toxic substances** : None of the components are listed.

**Canada inventory** : Not determined.

International regulations

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

International lists	: Australia inventory (AICS): All components are listed or exempted.
	China inventory (IECSC): All components are listed or exempted.
	Japan inventory: Not determined.
	Korea inventory: All components are listed or exempted.
	Malaysia Inventory (EHS Register): Not determined.
	New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.
	Philippines inventory (PICCS): Not determined.
	Taiwan inventory (CSNN): Not determined.

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# 16. Other information

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

Health	2
Flammability	2
Physical hazards	0

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 are not required on MSDSs 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 mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

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.

<u>History</u>	
Date of printing	: 8/12/2014.
Date of issue/Date of revision	: 8/12/2014.
Date of previous issue	: 5/1/2013.
Version	: 3.1
Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations
References	: Not available.

Indicates information that has changed from previously issued version.

Notice to reader

## **16.** Other information

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.

12/12