## **SAFETY DATA SHEET**

CHEMICAL VULCANIZING FLUID



## Section 1. Identification

GHS product identifier	: CHEMICAL VULCANIZING FLUID
Other means of identification	: 760, 761, 762, 763, 764, 765, 766, 767
Product type	: Liquid.

Relevant identified uses of the substance or mixture and uses advised against Not applicable.

Supplier's details	: Tech International, 200 East Coshocton Street, Johnstown, Ohio 43031, 740-967-9015 CHEMTREC: 1-800-424-9300
Manufacturer	: Tech International, 200 East Coshocton Street, Johnstown, Ohio 43031, 740-967-9015, CHEMTREC 1-800-424-9300
Distributor	: Tech International, 200 East Coshocton Street, Johnstown, Ohio 43031, 740-967-9015 CHEMTREC: 1-800-424-9300
Emergency telephone number (with hours of operation)	: Chemtrec 1-800-424-9300 (24hrs) CHEMTREC Brazil (Rio De Janeiro): +(55)-2139581449 CHEMTREC Mexico: 01-800-681-9531 CHEMTREC Russia: 8-800-100-6346

## Section 2. Hazards identification

OSHA/HCS status	<ul> <li>This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).</li> </ul>
Classification of the substance or mixture	: FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY: INHALATION - Category 4
	Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 5.1% Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic
	environment: 99.4%

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Signal word	: Danger
Hazard statements	: Highly flammable liquid and vapor. Harmful if inhaled.
Precautionary statements	
Prevention	: Wear protective gloves. Wear eye or face protection. Keep away from heat, sparks, open flames and hot surfaces No smoking. Take precautionary measures against static discharge. Keep container tightly closed. Use only outdoors or in a well-ventilated area. Avoid breathing vapor.
Response	: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
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.

GHS label elements Hazard pictograms

## Section 3. Composition/information on ingredients

Substance/mixture	1	Mixture
Other means of identification	:	760, 761, 762, 763, 764, 765, 766, 767

#### **CAS number/other identifiers**

CAS number	: Not applicable.
Product code	: 760, 761, 762, 763, 764, 765, 766, 767

Ingredient name	%	CAS number
solvent naphtha (petroleum blend), light	50 - 100	64742-89-8
zinc bis(dibutyldithiocarbamate)	0 - 5	136-23-2

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 or the environment 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	<ul> <li>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 if irritation occurs.</li> </ul>	
Inhalation	: 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. Get medical attention if adverse health effects persist or are severe. If necessary, call a poison center or physician. 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	<ul> <li>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.</li> </ul>	
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	<u>/effects, acute and delayed</u>			
Potential acute health eff	<u>ects</u>			
Eye contact	: No known significant effects or cr	itical hazards.		
Inhalation	: Harmful if inhaled. Exposure to c Serious effects may be delayed for		may cause a health haza	ard.
Skin contact	: No known significant effects or cr	itical hazards.		
Ingestion	: No known significant effects or cr	itical hazards.		
<u>Over-exposure signs/syn</u>	<u>iptoms</u>			
Eye contact	: No specific data.			
Inhalation	: No specific data.			
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## Section 4. First aid measures

Skin contact	: No specific data.
Ingestion	: No specific data.
Indication of immediate me	lical 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. 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.

#### See toxicological information (Section 11)

## Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: Highly flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides metal oxide/oxides
Special protective actions for fire-fighters	: 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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
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.

## Section 6. Accidental release measures

Personal precautions, protec	<u>tiv</u>	e 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).

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## Section 6. Accidental release measures

#### Methods and materials for containment and cleaning up

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.

## 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 or asthma, allergies or chronic or recurrent respiratory disease 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 ingest. 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. Take precautionary measures against electrostatic discharges. 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.

## Section 8. Exposure controls/personal protection

#### **Control parameters**

#### Occupational exposure limits

Ingredient name	Exposure limits
solvent naphtha (petroleum blend), light	ACGIH TLV (United States). TWA: 400 ppm

Appropriate engineering controls	other engine recommend	th adequate ventilation. eering controls to keep w led or statutory limits. Th st concentrations below a equipment.	orker exposure to airb	orne contam s also need to	inants belov o keep gas,	w any
Environmental exposure controls	they comply cases, fume	rom ventilation or work p with the requirements o e scrubbers, filters or eng essary to reduce emission	f environmental protec	tion legislatic to the proce	on. In some	;
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## Section 8. Exposure controls/personal protection

#### **Individual protection measures**

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. 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: safety glasses with side-shields.
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. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
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. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

## Section 9. Physical and chemical properties

Appearance	
Physical state	: Liquid.
Color	: Tan. [Light]
Odor	: Solvent. [Strong]
Odor threshold	: Not available.
рН	Not applicable.
Melting point	: Not available.
Boiling point	: 93.333 to 115.56°C (200 to 240°F)
Flash point	: Closed cup: -7°C (19.4°F) [Tagliabue.]
Burning time	: Not applicable.
Burning rate	: Not applicable.
Evaporation rate	: >1 (butyl acetate = 1)
Flammability (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Lower: 1.3% Upper: 8%
Vapor pressure	: 5.3 kPa (40 mm Hg) [room temperature]
Vapor density	: >1 [Air = 1]
Relative density	: 0.74
Solubility	: Not available.
Solubility in water	: Not available.

## Section 9. Physical and chemical properties

Partition coefficient: n- octanol/water	: Not available.	
Auto-ignition temperature	: 280°C (536°F)	
Decomposition temperature	: Not available.	
SADT	: Not available.	
Viscosity	: Dynamic (room temperature): 400 mPa·s (400 cP)	
VOC content	: 5.72 lbs/gal (685.4 g/l)	

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	: 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. Do not allow vapor to accumulate in low or confined areas.	
Incompatible materials	: Reactive or incompatible with the following materials: oxidizing materials	
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
solvent naphtha (petroleum blend), light	LC50 Inhalation Gas.	Rat	3400 ppm	4 hours
	LD50 Dermal LD50 Oral	Rat Rat	>4000 mg/kg >8000 mg/kg	-
zinc bis (dibutyldithiocarbamate)	LD50 Oral	Rat	>5000 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
zinc bis (dibutyldithiocarbamate)	Eyes - Mild irritant	Rabbit	-	39 milligrams	-
()	Skin - Mild irritant	Rabbit	-	0.5 Grams	-

#### **Sensitization**

Not available.

#### **Mutagenicity**

Not available.

#### **Carcinogenicity**

Not available.

#### Reproductive toxicity

Not available.

#### Teratogenicity

## Section 11. Toxicological information

Not available.	
Specific target organ toxici	ty (single exposure)
Not available.	
Specific target organ toxici Not available.	<u>ty (repeated exposure)</u>
Aspiration hazard Not available.	
Information on the likely routes of exposure	: Not available.
Potential acute health effect	<u>s</u>
Eye contact	: No known significant effects or critical hazards.
Inhalation	: Harmful if inhaled. 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	: No known significant effects or critical hazards.
Symptoms related to the phy	vsical, chemical and toxicological characteristics
Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	: No specific data.
Delayed and immediate offer	cts and also chronic effects from short and long term exposure
Short term exposure	ts and also chronic effects from short and long term exposure
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health eff	ects
Not available.	
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.
<b>Developmental effects</b>	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.
Numerical measures of toxic	rity
Acute toxicity estimates	
source to hierry estimates	

# Route ATE value Inhalation (gases) 3693.2 ppm

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## Section 12. Ecological information

#### **Toxicity**

Not available.

Persistence and degradab	<u>vility</u>
Not available.	
<b>Bioaccumulative potentia</b>	
Not available.	
Mobility in soil	
Soil/water partition coefficient (Koc)	: Not available.
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.
	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.

	DOT Classification	TDG Classification	Mexico Classification	ADR/RID	IMDG	ΙΑΤΑ
UN number	1133	1133	1133	1133	1133	1133
UN proper shipping name	Adhesive.	Adhesive.	Adhesive.	Adhesive.	Adhesive.	Adhesive.
Transport hazard class(es)	3	3	3	3	3	3
Packing group				11		
Environmental hazards	No.	No.	No.	No.	No.	No.
Additional information	-	-	-	Tunnel code (D/E)	-	-

## Section 14. Transport information

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.

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## Section 14. Transport information

Transport in bulk according : Not available. to Annex II of MARPOL 73/78 and the IBC Code

## Section 15. Regulatory information

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U.S. Federal regulations	:		. ,	•			ed isted or exemp	ted
						iponents are i	isted of exemp	ileu.
		Clean v	Vater Act (CW	IA) 307:	Proprietary			
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	:	Not liste	d					
Clean Air Act Section 602 Class I Substances	:	Not liste	d					
Clean Air Act Section 602 Class II Substances	:	Not listed						
DEA List I Chemicals (Precursor Chemicals)	:	Not listed						
DEA List II Chemicals (Essential Chemicals)	:	Not listed						
SARA 302/304								
Composition/information	on	ingredie	<u>nts</u>					
No products were found.								
SARA 304 RQ	:	Not app	licable.					
<u>SARA 311/312</u>								
Classification	:	Fire haz Immedia	ard ate (acute) hea	alth haza	rd			
Composition/information	on	<u>ingredie</u>	<u>nts</u>					
Name			%	Fire	Sudden	Reactive	Immediate	Delayed

Name	%	hazard	Sudden release of pressure		(acute) health	Delayed (chronic) health hazard
solvent naphtha (petroleum blend), light	50 - 100	Yes.	No.	No.	Yes.	No.
zinc bis(dibutyldithiocarbamate)	0 - 5	No.	No.	No.	Yes.	No.

#### <u>SARA 313</u>

	Product name	CAS number	%
Form R - Reporting requirements	zinc bis(dibutyldithiocarbamate)	136-23-2	0 - 5
Supplier notification	zinc bis(dibutyldithiocarbamate)	136-23-2	0 - 5

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

State regulations	
Massachusetts	: None of the components are listed.
New York	: None of the components are listed.
New Jersey	: The following components are listed: Proprietary
Pennsylvania	: The following components are listed: Proprietary
Canada inventory	: At least one component is not listed in DSL but all such components are listed in NDSL.
International regulations	

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## Section 15. Regulatory information

International lists	<ul> <li>Australia inventory (AICS): All components are listed or exempted.</li> <li>China inventory (IECSC): All components are listed or exempted.</li> <li>Japan inventory: Not determined.</li> <li>Korea inventory: Not determined.</li> <li>Malaysia Inventory (EHS Register): Not determined.</li> <li>New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.</li> <li>Philippines inventory (PICCS): All components are listed or exempted.</li> <li>Taiwan inventory (CSNN): Not determined.</li> </ul>
Chemical Weapons Convention List Schedule I Chemicals	: Not listed
Chemical Weapons Convention List Schedule II Chemicals	: Not listed
Chemical Weapons Convention List Schedule III Chemicals	: Not listed

## 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 are not required on SDSs 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.

#### **History**

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Date of previous issue	: 2/27/2014.
Version	: 0.16

## Section 16. Other information

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 = Intermediate 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

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.