# SAFETY DATA SHEETS

**This SDS packet was issued with item:** 074383675

N/A

# MATERIAL SAFETY DATA SHEET

# **TEMP-BOND BASE**

**Temporary Cement** 

# **1 - IDENTIFICATION**

Manufacturer:	Kerr Corporation
Address:	1717 West Collins Avenue
City, State, Zip:	Orange, CA 92867-5422
Telephone:	1-800-KERR-123
Emergency:	Chemtrec 1-800-424-9300
Date Prepared:	April 4, 2006

### 2 - COMPOSITION INFORMATION

### Hazardous Ingredients

This product contains no hazardous components as defined in the OSHA Hazard Communication Standard ( 29 CFR 1910.1200 ).

### Other Ingredients

Mineral oil, zinc oxide, cornstarch

## **3 - PHYSICAL AND CHEMICAL PROPERTIES**

Boiling Point: N/E Specific Gravity (H<sub>2</sub>0 = 1): >1.0 Vapor Pressure (mm Hg): N/A Melting Point: N/A Vapor Density (AIR = 1): N/A Solubility in Water: Insoluble Reactivity in Water: N/A Appearance and Odor: Off-white, odorless paste

# 4 - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used):N/DFlammable Limits:LEL:N/AUEL:N/AExtinguishing Media:Carbon dioxide, foam, dry chemical.Special Fire Fighting Procedures:NoneUnusual Fire and Explosion Hazards:None

# **5 - REACTIVITY DATA**

Stability: Stable Conditions to Avoid: Excessive heat Incompatibility (Material to Avoid): N/A Hazardous Decomposition Products: N/A Hazardous Polymerization: Will not occur

### 6 - HEALTH HAZARD DATA

### **Routes of Entry:**

 Skin: May be irritating to the skin. Repeated contact may cause allergic dermatitis.

 Eyes: May be irritating to the eyes.

 Inhalation: Prolonged exposure may cause drowsiness.

 Ingestion: Consult physician

 Carcinogenicity 

 IARC Monographs: No

 OSHA Regulated Carcinogen: No

## 7 - EMERGENCY FIRST AID PROCEDURES

Skin: Wash with soap and water.Eyes: Flush eyes with water for at least 15 minutes.Inhalation: Remove to fresh airIngestion: Consult physician

# 8 - PRECAUTIONS FOR SAFE HANDLING & USE

**Steps to be taken in case material is released or spilled:** Wipe up with paper towels and dispose of in a suitable container.

**Waste Disposal Method:** Dispose of in accordance with federal, state and local regulations.

**Precautions to be taken in handling and storing:** Store in a cool, dry place. Wash thoroughly after handling.

### 9 - CONTROL MEASURES

Respiratory Protection (Specify Type): Avoid breathing vapors. VENTILATION: Local Exhaust: N/A Mechanical (General): Should be sufficient Protective Gloves: Latex gloves to avoid skin contact recommended. Eye Protection: Safety glasses Work/Hygiene Practices: Handle in accordance with good personal hygiene and safety practices. These practices include avoiding unnecessary exposure.

### **10 - TRANSPORTATION INFORMATION**

Not DOT regulated.

### **11 - SPECIAL INFORMATION**

HMIS (Hazardous Material Identification System) Rating: H1 F0 R0 [HMIS Index: 4 - Severe Hazard; 3 -Serious Hazard;

2 - Moderate Hazard; 1 - Slight Hazard; 0 - Minimum Hazard]

Note: This MSDS was prepared in accordance with the requirements of the OSHA Hazard Communication Standard (29 CFR 1910.1200) and is to be used only for this product. The information in this MSDS is, to the best of our knowledge, believed to be accurate.



**SAFETY DATA SHEET** 

**Temp-Bond Base** 

# Section 1. Identification

GHS product identifier	: Temp-Bond Base
Other means of identification	: Not available.
Product type	: Paste.
Relevant identified uses of	the substance or mixture and uses advised against
Product use	: Dental product: Temporary cement
Area of application	: Professional applications.
Manufacturer	: Kerr Corporation 1717 West Collins Avenue Orange, CA 92867-5422 Telephone no.: 1-800-KERR-123
e-mail address of person responsible for this SDS	: edwin.varela@kavokerrgroup.com
Emergency telephone number (with hours of operation)	: CHEMTREC® (24 hours) U.S. : 1-800-424-9300 International: +1-703-527-3887

# Section 2. Hazards identification

OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
	Health effects are based on the uncured material.
Classification of the substance or mixture	: EYE IRRITATION - Category 2B
	Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 89.3%
GHS label elements	
Signal word	: Warning
Hazard statements	: Causes eye irritation.
Precautionary statements	
Prevention	: Wear eye or face protection. Wash hands thoroughly after handling.
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	: Not applicable.
Disposal	: Not applicable.
Supplemental label elements	: Avoid contact with skin and clothing. Wash thoroughly after handling.
Hazards not otherwise classified	: Prolonged or repeated contact may dry skin and cause irritation.

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# Section 3. Composition/information on ingredients

### Substance/mixture Other means of identification

: Mixture

: Not available.

# **CAS number/other identifiers**

CAS number	: Not applicable.
Product code	: Not available.

Ingredient name	Other names	%	CAS number
zinc oxide White mineral oil (petroleum)	zinc oxide White mineral oil (petroleum)	60-100 5-10	1314-13-2 8042-47-5

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.

# Section 4. First aid measures

Description of necess	sary first aid measures
Eye contact	<ul> <li>No special measures are required. In case of contact with eyes, rinse immediately with plenty of water. Get medical attention if symptoms occur.</li> </ul>
Inhalation	<ul> <li>No special measures required. If inhaled, remove to fresh air. Get medical attention if symptoms occur.</li> </ul>
Skin contact	<ul> <li>No special measures required. In case of contact, immediately flush skin with plenty of water. Get medical attention if symptoms occur.</li> </ul>
Ingestion	: Wash out mouth with water. 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. Get medical attention if adverse health effects persist or are severe.

Most important symptoms	s/effects, acute and delayed
Potential acute health eff	ects
Eye contact	: Causes eye irritation.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Defatting to the skin. May cause skin dryness and irritation.
Ingestion	: May be irritating to mouth, throat and stomach.
Over-exposure signs/syn	nptoms
Eye contact	: Adverse symptoms may include the following: irritation watering redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation dryness cracking
Ingestion	: No specific data.
Indication of immediate m	edical attention and special treatment needed, if necessary
Notes to physician	: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
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### **United States**

# Section 4. First aid measures

Specific treatments	: No specific treatment.
Protection of first-aiders	<ul> <li>In case of major fire and large quantities: 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.</li> </ul>

# See toxicological information (Section 11)

# Section 5. Fire-fighting measures

•	•
Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: No specific fire or explosion hazard.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides
Special protective actions for fire-fighters	In case of major fire and large quantities: 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.
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	tiv	e equipment and emergency procedures
For non-emergency personnel	:	Low release. For professional use only. Handling of product in very small amounts or in situations where release is highly unlikely
For emergency responders	:	Low release. See also the information in "For non-emergency personnel".
Environmental precautions	:	Low release. 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	nta	ainment and cleaning up
Small spill	:	Small Quantity. For professional use only. Absorb with an inert material and place in an appropriate waste disposal container.

# Large spill : Small Quantity. For professional use only. Absorb with an inert material and place in an appropriate waste disposal container.

# Section 7. Handling and storage

### Precautions for safe handling

Protective measures	: No special measures are required for small quantities under normal and intended
	conditions of product use. For professional use only. Put on appropriate personal
	protective equipment (see Section 8). Handle with care and dispose in a safe manner.

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# Section 7. Handling and storage

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. 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
zinc oxide	NIOSH REL (United States, 10/2013).
	CEIL: 15 mg/m <sup>3</sup> Form: Dust
	TWA: 5 mg/m <sup>3</sup> 10 hours. Form: Dust and
	fumes
	STEL: 10 mg/m <sup>3</sup> 15 minutes. Form: Fume
	OSHA PEL 1989 (United States, 3/1989).
	TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Fume
	STEL: 10 mg/m <sup>3</sup> 15 minutes. Form: Fume
	TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Respirable
	fraction
	TWA: 10 mg/m <sup>3</sup> 8 hours. Form: Total dust
	OSHA PEL (United States, 2/2013).
	TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Fume
	TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Respirable
	fraction
	TWA: 15 mg/m <sup>3</sup> 8 hours. Form: Total dust
	ACGIH TLV (United States, 4/2014).
	TWA: 2 mg/m <sup>3</sup> 8 hours. Form: Respirable
	fraction
	STEL: 10 mg/m <sup>3</sup> 15 minutes. Form:
	Respirable fraction
White mineral oil (petroleum)	ACGIH TLV (United States, 4/2014).
	TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Inhalable
	NIOSH REL (United States, 10/2013).
	TWA: 5 mg/m <sup>3</sup> 10 hours. Form: Mist
	STEL: 10 mg/m <sup>3</sup> 15 minutes. Form: Mist
	OSHA PEL (United States, 2/2013).
	TWA: 5 mg/m <sup>3</sup> 8 hours.

Appropriate engineering controls	:	No special measures are required for small quantities under normal and intended conditions of product use.
Environmental exposure controls	1	No special measures are required for small quantities under normal and intended conditions of product use.
Individual protection measur	<u>es</u>	
Hygiene measures	1	No special measures are required for small quantities under normal and intended conditions of product use.

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# Section 8. Exposure controls/personal protection

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.
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	<ul> <li>No special measures are required for small quantities under normal and intended conditions of product use.</li> </ul>
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	: No special measures are required for small quantities under normal and intended conditions of product use.

# Section 9. Physical and chemical properties

Appearance		
Physical state	1	Solid. [Paste.]
Color	1	Off-white.
Odor	1	Odorless.
Odor threshold	1	Not available.
рН	4	Not available.
Melting point	4	Not available.
Boiling point	4	Not available.
Flash point	4	Not applicable.
Evaporation rate	4	Not available.
Flammability (solid, gas)	4	Not available.
Lower and upper explosive (flammable) limits	:	Not available.
Vapor pressure	1	Not available.
Vapor density	4	Not available.
Relative density	4	>1 [Water = 1]
Solubility	4	Insoluble in the following materials: cold water and hot water.
Solubility in water	4	Not available.
Partition coefficient: n- octanol/water	:	Not available.
Auto-ignition temperature	4	Not available.
Decomposition temperature	4	Not available.
SADT	4	Not available.
Viscosity	:	Not available.

# Section 10. Stability and reactivity

Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Incompatible materials	: No specific data.
Conditions to avoid	: Avoid excessive heat.
	Under normal conditions of storage and use, hazardous polymerization will not occur.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Chemical stability	: The product is stable.
Reactivity	: No specific test data related to reactivity available for this product or its ingredients.

# Section 11. Toxicological information

# Information on toxicological effects

Acute toxicity						
Product/ingredient name	Result	Species	Dose	Exposure		
White mineral oil (petroleum)	LD50 Oral	Rat	>5000 mg/kg	-		
Conclusion/Summary	mary : Based on the criteria of the protocol, this product is considered cytotoxic per USP 23. Based on analysis and test results, this product is considered as biocompatible per EN ISO 7405:2008 and EN ISO 10993-1:2009.					

### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
zinc oxide	,	Rabbit Rabbit	-	24 hours 500 milligrams 24 hours 500 milligrams	-

# **Sensitization**

Not available.

# Conclusion/Summary Skin : Kligman score: Grade I (weak sensitizer) Mutagenicity Not available. Conclusion/Summary : No mutagenic effect. Carcinogenicity Not available. Reproductive toxicity

Not available.

### **Teratogenicity**

Not available.

# Specific target organ toxicity (single exposure)

Not available.

# Specific target organ toxicity (repeated exposure)

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# Section 11. Toxicological information

### Not available.

### Aspiration hazard

Aspiration hazard						
Name		Result				
White mineral oil (petroleum	)	ASPIRATION HAZARD - Category 1				
Information on the likely routes of exposure	: Routes of entry anticipated: C	Dral, Dermal, Inhalation.				
Potential acute health effect	<u>s</u>					
Eye contact	: Causes eye irritation.	Causes eye irritation.				
Inhalation	: No known significant effects	or critical hazards.				
Skin contact	: Defatting to the skin. May ca	Defatting to the skin. May cause skin dryness and irritation.				
Ingestion	: May be irritating to mouth, thr	roat and stomach.				
Symptoms related to the phy	ysical, chemical and toxicologic	cal characteristics				
Eye contact	: Adverse symptoms may inclu irritation watering redness	ude the following:				
Inhalation	: No specific data.					
Skin contact	: Adverse symptoms may inclu irritation dryness cracking	ude the following:				
Ingestion	: No specific data.					
Delayed and immediate effe	cts and also chronic effects from	<u>m short and long term exposure</u>				
<u>Short term exposure</u>						
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	: Prolonged or repeated contac dermatitis.	ct can defat the skin and lead to irritation, cracking and/or				
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 of	or critical hazards.				
Numerical measures of toxic Acute toxicity estimates Not available.	<u>city</u>					

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# Section 11. Toxicological information

# Section 12. Ecological information

# **Toxicity**

Product/ingredient name	Result	Species	Exposure
zinc oxide	Acute EC50 0.042 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata - Exponential growth phase	72 hours
	Acute LC50 98 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 1.1 ppm Fresh water Chronic NOEC 0.017 mg/l Fresh water	Fish - Oncorhynchus mykiss Algae - Pseudokirchneriella subcapitata - Exponential growth phase	96 hours 72 hours

# Persistence and degradability

Not available.

## **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
zinc oxide	-	60960	high
White mineral oil (petroleum)	>6	-	high

### **Mobility in soil**

Soil/water partition	: Not available.
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.

# Section 14. Transport information

	DOT Classification	IMDG	ΙΑΤΑ
UN number	UN3077	UN3077	UN3077
UN proper shipping name	Environmentally hazardous substances, solid, n.o.s. (zinc oxide). Marine pollutant (zinc oxide)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (zinc oxide). Marine pollutant (zinc oxide)	Environmentally hazardous substance, solid, n.o.s. (zinc oxide)
Transport hazard class(es)	9	9	9
Packing group		Ш	Ш
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# Section 14. Transport information

	N/	1 V	<u>v</u>
Environmental hazards	Yes.	Yes.	Yes.
Additional information	Non-bulk packages of this product are not regulated as hazardous materials unless transported by inland waterway. The marine pollutant mark is not required when transported on inland waterways in sizes of ≤5 L or ≤5 kg. Limited quantity Yes. Special provisions 8, 146, 335, A112, B54, B120, IB8, IP3, N20, T1, TP33	The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. Emergency schedules (EmS) F-A, S-F Special provisions 274, 335, 966, 967	The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg. Passenger and Cargo Aircraft Quantity limitation: 400 kg Packaging instructions: 956 Cargo Aircraft OnlyQuantity limitation: 400 kg Packaging instructions: 956 Limited Quantities - Passenger AircraftQuantity limitation: 30 kg Packaging instructions: Y956 Special provisions A97, A158, A179

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 73/78 and the IBC Code

# Section 15. Regulatory information

U.S. Federal regulations	: United States inventory (TSCA 8b): All components are listed or exempted.
-	Clean Water Act (CWA) 307: zinc oxide
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	: Not listed
Clean Air Act Section 602 Class I Substances	: Not listed
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
<u>SARA 302/304</u>	
Composition/information	on ingredients
No products were found.	
SARA 304 RQ	: Not applicable.
<u>SARA 311/312</u>	
Classification	: Immediate (acute) health hazard
Composition/information	on ingredients

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# Section 15. Regulatory information

Name	 hazard	Sudden release of pressure		(acute) health	Delayed (chronic) health hazard
zinc oxide White mineral oil (petroleum)	No. No.		No. No.	Yes. Yes.	No. No.

### **SARA 313**

	Product name	CAS number	%
Form R - Reporting requirements	zinc oxide	1314-13-2	60-100
Supplier notification	zinc oxide	1314-13-2	60-100

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.

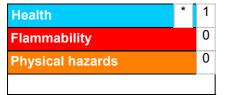
### **State regulations**

Massachusetts	: The following components are listed: ZINC OXIDE FUME
Massachusells	. The following components are listed. ZING OKIDE FOME
New York	: None of the components are listed.
New Jersey	<ul> <li>The following components are listed: ZINC OXIDE; MINERAL OIL (UNTREATED and MILDLY TREATED)</li> </ul>
Pennsylvania	: The following components are listed: ZINC OXIDE (ZNO)
California Prop. 65	

None of the components are 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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# Section 16. Other information

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 issue/Date of revision	: 02/09/2015
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Version	: 1
Prepared by	: IHS
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 = 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</li> </ul>
References	: HCS (U.S.A.)- Hazard Communication Standard International transport regulations

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.

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