### **SAFETY DATA SHEETS**

# This SDS packet was issued with item: 076467872

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

076467856 076467864 076467880 076467898



#### 1. Chemical Product and Contact Information

#### Product Name:

### Cement-It<sup>®</sup> Universal C&B<sup>™</sup> cement

Material Safety Sheet Number: Date of Issue: Revision Date:

00073 04/21/99 09/16/09

#### Company Identification:

Pentron Clinical 1717 West Collins Ave. Orange, CA 92867 Phone: 800-551-0283 203-265-7397

800-424-9300

202-483-7616

#### **Emergency Information Chemtrec:** Chemtrec International:

#### 2. Composition/Information on Ingredients

Chemical characteristics:

Mixture of BISGMA, UDMA, HDDMA, PEGDMA, & phosphate resins, silane-treated bariumborosilicate glasses\*, silica with initiators, stabilizers and UV absorber, organic and/or inorganic pigments, opacifiers.

\*contains a small amount of aluminum oxide.

Element	CAS #	Exposure Limit mg/m <sup>3</sup>	
		OSHA PEL	ACGIH TLV
BIS-GMA	1565-922	N/E	N/E
UDMA	74389-53-0	N/E	N/E
HDDMA	6606-59-3	N/E	N/E
PEGDMA	2582-27-5	N/E	N/E
Methacrylate phosphate	32435-45-4	N/E	N/E
Camphorquinone	10373-78-1	N/E	N/E
Silane treated barium glass	N/A	N/A	N/A
Silica (amorphous)	69012-64-2	N/E	2R
Tertieary Amine	10287-53-3	N/E	N/E
Benzoyl Peroxide	94-36-0	5	5
Minor additives	Various	N/A	N/A

### 3. Hazard Identification Risk identification:

None known. Special risks for human beings and environment: None known Classification: Not hazardous. Those people known to be allergic to methacrylate resins should avoid the use of this product.

#### 4. First Aid Measures

General information: After skin contact: Wash with plenty of soap and water. Rinse with plenty of water and contact an opthamologist. After eye contact: After swallowing: Seek medical advice immediately.

#### 5. Fire Fighting Measures

Extinguishing media: Protective equipment: CO<sub>2</sub>, water, dry chemical. Unknown.

#### 6. Accidental Release Measures

Environmental precautions:	Absorb with inert material. Collect in closed containers and dispose of as
Methods for cleaning up: Additional information:	recommended. Avoid skin contact, wear protective equipment. Dispose according to Federal, State, and local regulations. Unknown.

### 7. Handling and Storage Handling:

Practice good hygienenic measures. Handling Procedures: Refrigeration required. Store at 2 - 8° C. Storage: Store away from direct sunlight, initiators, oxidizing, and/or reducing agents. Over time, spontaneous polymerization may occur.

Obtained by Global Safety Management, Inc. www.globalsafetynet.com (Tel: 1-813-435-5161)



#### MATERIAL SAFETY DATA SHEET

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### 8. Exposure Controls/Personal Protection Personal protective equipment: Protective gloves, gogg

General measure of protection and hygiene: Respiration: Hands: Eyes:

Protective gloves, goggles are recommended. Normal hygienic measures. Not necessary. Protective gloves. OSHA approved goggles.

#### 9. Physical and Chemical Properties

Appearance:	Form: Color: Odor:	Paste. Shaded base part, white catalyst part. Ester-like.
Information on change	e in the physical state	

Melting point/melting range: Boiling point/boiling range: Flash point: Autoignition temperature: Danger of explosion: Density: Vapor pressure: Viscosity: pH: Solubility in/miscibility with Water: Content of solvents: Organic solvents: Content of solids:	Unknown. Unknown. Unknown. Unlikely. 1.7 gm/cm <sup>3</sup> Unknown. Unknown. Unknown. Slightly. None. None. ≥65%
<b>10. Stability and Reactivity</b> Incompatibility with other substances: Hazardous discomposition products:	Stable. Avoid exposure of base to peroxide and excessive heat. Avoid exposure of catalyst to amine and excessive heat. Unknown.
<b>11. Toxicological Information</b> Carcinogenicity: TLV: Primary routes of entry:	None of the components of this material are listed by IARC, NTP, OSHA, or ACIGH as carcinogens. Unknown. Inhalation, skin, and eyes.
<b>12. Ecological Information</b> General information: Classification of water endangerment:	Unknown. Unknown.
13. Disposal Considerations Disposal consideration:	Dispose in accordance with Federal, State, and local regulations.
14. Transport Information	

Not classified as dangerous goods.

#### 15. Regulatory information

Classification according to EEC guidelin	es: Unknown.
National Prescriptions:	Unknown.
Classification according to VbF:	Unknown.
	New York Control of the Control of t

#### 16. Other Information

The information and recommendations set forth herein (hereinafter "information") are presented in good faith and believed to be correct as of the date hereof. Pentron Clinical however, makes no representations as to the completeness or accuracy of this information and supplies it on the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. In no event will Pentron Clinical. be responsible for damages of any nature whatsoever resulting from the use of or reliance upon information.

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PENTRON

# **SAFETY DATA SHEET**

Cement-It<sup>™</sup> Universal C&B<sup>™</sup> Resin Cement

Section 1. Identification		
GHS product identifier	: Cement-It™ Universal C&B™ Resin Cement	
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: Cements.	
Area of application	: Professional applications.	
Manufacturer	: Pentron Clinical 1717 West Collins Avenue Orange, CA 92867-5422 Telephone no.: 1-203-265-7397, Toll Free: 1-800-551-0283	
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	: SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A
	Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 40.6%
GHS label elements Hazard pictograms	
Signal word	: Warning
Hazard statements	: Causes serious eye irritation. Causes skin irritation.
Precautionary statements	
Prevention	: Wear protective gloves. Wear eye or face protection. Wash hands thoroughly after handling.
Response	: IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse. If skin irritation 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. If eye irritation persists: Get medical attention.
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### Section 2. Hazards identification

Storage	: Not applicable.
Disposal	: Not applicable.
Hazards not otherwise classified	: None known.

### Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Other means of	: Not available.
identification	

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

CAS number: Not applicableProduct code: Not available.	2.		
Ingredient name	Other names	%	CAS number
1,6-hexanediyl bismethacrylate	1,6-hexanediyl bismethacrylate	5-10	6606-59-3
7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa- 5,12-diazahexadecane-1,16-diyl bismethacrylate	7,7,9(or 7,9,9)-trimethyl-4, 13-dioxo-3,14-dioxa-5, 12-diazahexadecane-1, 16-diyl bismethacrylate	5-10	72869-86-4
dibenzoyl peroxide	dibenzoyl peroxide	0.1-1	94-36-0

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 necessary	first aid measures
Eye contact	: No special measures are required. In case of contact with eyes, rinse immediately with plenty of water. Get medical attention if symptoms occur.
Inhalation	: No special measures required. If inhaled, remove to fresh air. Get medical attention if symptoms occur.
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.
	s/effects, acute and delayed
Potential acute health eff	ects
Eye contact	: Causes serious eye irritation.
Inhalation	<ul> <li>Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.</li> </ul>
Skin contact	: Causes skin irritation.
Ingestion	: Irritating to mouth, throat and stomach.
<u>Over-exposure signs/syr</u>	nptoms
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
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#### **United States**

### Section 4. First aid measures

Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.

Indication of immediate med	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. 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	<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 nitrogen oxides metal oxide/oxides
Special protective actions for fire-fighters	<ul> <li>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.</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.

### Section 6. Accidental release measures

Personal precautions, protec	tive 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).				
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.				
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## Section 6. Accidental release measures

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 between the following temperatures: 2 to 8°C (35.6 to 46.4°F). 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
dibenzoyl peroxide	ACGIH TLV (United States, 6/2013). TWA: 5 mg/m <sup>3</sup> 8 hours. OSHA PEL 1989 (United States, 3/1989). TWA: 5 mg/m <sup>3</sup> 8 hours. NIOSH REL (United States, 10/2013). TWA: 5 mg/m <sup>3</sup> 10 hours. OSHA PEL (United States, 2/2013). TWA: 5 mg/m <sup>3</sup> 8 hours.

Appropriate engineering controls	<ul> <li>No special measures are required for small quantities under normal and intended conditions of product use.</li> </ul>
Environmental exposure controls	: No special measures are required for small quantities under normal and intended conditions of product use.
Individual protection measu	ires
Hygiene measures	<ul> <li>No special measures are required for small quantities under normal and intended conditions of product use.</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. 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.
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### Section 8. Exposure controls/personal protection

<b>Respiratory protection</b>	: 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	Solid. [Paste.]	
Color	Base: Various Catalyst.: White.	
Odor	Fruity ester-like	
Odor threshold	Not available.	
рН	Not available.	
Melting point	Not available.	
Boiling point	Not available.	
Flash point	Not available.	
Evaporation rate	Not available.	
Flammability (solid, gas)	Not available.	
Lower and upper explosive (flammable) limits	Not available.	
Vapor pressure	Not available.	
Vapor pressure Vapor density	Not available.	
Relative density	Not available.	
Solubility	Very slightly soluble in the following materials: cold water and hot water.	
Solubility in water	Not available.	
Partition coefficient: n-	Not available.	
octanol/water		
Auto-ignition temperature	Not available.	
Decomposition temperature	Not available.	
SADT	Not available.	
Viscosity	Not available.	
Density	1.7 g/cm <sup>3</sup>	

### 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.
	Under normal conditions of storage and use, hazardous polymerization will not occur.
Conditions to avoid	: Avoid excessive heat. Store away from direct sunlight.
Incompatible materials	<ul> <li>Reactive or incompatible with the following materials: oxidizing materials and reducing materials.</li> <li>Initiators</li> <li>Peroxide. (Base)</li> <li>Amine. (Catalyst.)</li> </ul>

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### Section 10. Stability and reactivity

Hazardous decomposition : 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
dibenzoyl peroxide	LD50 Oral	Rat	6400 mg/kg	-
Conclusion/Summary	: Based on the criteria of the protocol, this product is considered non-cytotoxic per ISO 10993-5. Based on analysis and test results, this product is considered as biocompatible per EN			

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
dibenzoyl peroxide	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-

: Kligman score: Grade I (weak sensitizer)

#### **Sensitization**

Not available.

#### **Conclusion/Summary**

Skin

#### **Mutagenicity**

Not available.

#### **Conclusion/Summary** : Not mutagenic in Ames test.

#### **Carcinogenicity**

Not available.

#### **Classification**

Product/ingredient name	OSHA	IARC	NTP
dibenzoyl peroxide	-	3	-

#### **Reproductive toxicity**

Not available.

#### Teratogenicity

Not available.

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

Name		Route of exposure	Target organs
1,6-hexanediyl bismethacrylate	Category 3	Not applicable.	Respiratory tract irritation
7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5, 12-diazahexadecane-1,16-diyl bismethacrylate	Category 3	Not applicable.	Respiratory tract irritation

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

Not available.

#### Aspiration hazard

Not available.

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## Section 11. Toxicological information

Information on the likely routes of exposure	1	Routes of entry anticipated: Oral, Dermal, Inhalation.		
Potential acute health effects				
Eye contact	1	Causes serious eye irritation.		
Inhalation	1	Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.		
Skin contact	1	Causes skin irritation.		
Ingestion	;	Irritating to mouth, throat and stomach.		

Symptoms related to t	the physical, chemical and toxicological characteristics
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: No specific data.
Skin contact	<ul> <li>Adverse symptoms may include the following: irritation redness</li> </ul>
Ingestion	: No specific data.

Delayed and immediate effect	ts and also chronic effects from short and long term exposure
Short term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
<u>Long term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health eff	<u>ects</u>
Not available.	
General	: No known significant effects or critical hazards.

General	: No known significant effects of childar 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 toxicity

Acute toxicity estimates

Not available.

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### Section 12. Ecological information

#### **Toxicity**

Not available.

#### Persistence and degradability

Not available.

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
7,7,9(or 7,9,9)-trimethyl-4, 13-dioxo-3,14-dioxa-5, 12-diazahexadecane-1, 16-diyl bismethacrylate	3	-	low
dibenzoyl peroxide	3.2	-	low

#### **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	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	No.	No.	No.
Additional 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

U.S. Federal regulations	: TSCA 8(a) PAIR: mequinol
	United States inventory (TSCA 8b): All components are listed or exempted.
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	: 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	: Not listed

#### SARA 302/304

(Essential Chemicals)

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

			SARA 302 T	PQ	SARA 304 F	Q
Name	%	EHS	(lbs)	(gallons)	(lbs)	(gallons)
1,4-dihydroxybenzene	<0.00355	Yes.	500 / 10000	-	100	-

**SARA 304 RQ** 

: 3129890.5 lbs / 1420970.3 kg

SARA 311/312 Classification

: Immediate (acute) health hazard

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

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
1,6-hexanediyl bismethacrylate 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3, 14-dioxa-5,12-diazahexadecane-1, 16-diyl bismethacrylate dibenzoyl peroxide	5-10 5-10 0.1-1	No. No. No.	No. No. No.	Yes. Yes. Yes.	Yes. Yes. Yes.	No. No. No.

#### **SARA 313**

Not applicable.

State regulations	
Massachusetts	: The following compor

- **New York**
- onents are listed: MINERAL WOOL FIBER
- : None of the components are listed.
- **New Jersey**
- : None of the components are listed.
- Pennsylvania

### : None of the components are listed.

### California Prop. 65

None of the components are listed.

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### 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.

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Date of issue/Date of revision	: 12/02/2014
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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 = International Air Transport Association IBC = 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

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### Section 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.

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<mark>s issue</mark> : No p