

# **SAFETY DATA SHEET**

#### Temphase Base and Catalyst Paste

### **Section 1. Identification**

**GHS** product identifier

: Temphase Base and Catalyst Paste

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 Crown and Bridge material

**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

: SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A

TOXIC TO REPRODUCTION (Unborn child) - Category 1B TOXIC TO REPRODUCTION (Fertility) - Category 2

Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 21.6%

**GHS label elements** 

Hazard pictograms :





Signal word : Danger

**Hazard statements** : Causes serious eye irritation.

Causes skin irritation.

May damage the unborn child. Suspected of damaging fertility.

### Section 2. Hazards identification

#### **Precautionary statements**

**Prevention**: Obtain special instructions before use. Do not handle until all safety precautions have

been read and understood. Wear protective gloves. Wear eye or face protection. Wear

protective clothing. Wash hands thoroughly after handling.

: IF exposed or concerned: Get medical attention. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it 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.

Storage : Store locked up.

Disposal : Dispose of contents and container in accordance with all local, regional, national and

international regulations.

Hazards not otherwise

classified

Response

: None known.

# Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Other means of : Not available. identification

**CAS** number/other identifiers

CAS number : Not applicable.

Product code : Not available.

Ingredient name	Other names	%	CAS number
(1-methylethylidene)bis(4,1-phenyleneoxy-2,	(1-methylethylidene)bis(4,	10-30	24448-20-2
1-ethanediyl) bismethacrylate	1-phenyleneoxy-2,		
	1-ethanediyl)		
	bismethacrylate		
7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-	7,7,9(or 7,9,9)-trimethyl-4,	10-30	72869-86-4
5,12-diazahexadecane-1,16-diyl	13-dioxo-3,14-dioxa-5,		
bismethacrylate	12-diazahexadecane-1,		
	16-diyl bismethacrylate		
dibutyl phthalate	dibutyl phthalate	1-5	84-74-2
2,2'-[(4-methylphenyl)imino]bisethanol	2,2'-[(4-methylphenyl)imino]	1-5	3077-12-1
	bisethanol		
3-trimethoxysilylpropyl methacrylate	3-trimethoxysilylpropyl	1-5	2530-85-0
	methacrylate		
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 : No special measures required. In case of contact, immediately flush skin with plenty of

water. Get medical attention if symptoms occur.

**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/effects, acute and delayed

#### Potential acute health effects

**Eye contact** : Causes serious eye irritation.

**Inhalation** : No known significant effects or critical hazards.

**Skin contact**: Causes skin irritation.

**Ingestion**: No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

**Eye contact**: Adverse symptoms may include the following:

pain or irritation watering

**Inhalation** : Adverse symptoms may include the following:

redness

reduced fetal weight increase in fetal deaths skeletal malformations

**Skin contact**: Adverse symptoms may include the following:

irritation redness

reduced fetal weight increase in fetal deaths skeletal malformations

Ingestion : Adverse symptoms may include the following:

reduced fetal weight increase in fetal deaths skeletal malformations

#### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : 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.

**Specific treatments**: No specific treatment.

**Protection of first-aiders** : In case of major fire and large quantities: No action shall be taken involving any

personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

#### Section 4. First aid measures

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

: In a fire or if heated, a pressure increase will occur and the container may burst.

**Hazardous thermal** decomposition products : Decomposition products may include the following materials: carbon dioxide

carbon monoxide nitrogen oxides 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, protective 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 containment 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. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

### Section 8. Exposure controls/personal protection

#### **Control parameters**

Occupational exposure limits

Ingredient name Exposure limits		
dibutyl phthalate	OSHA PEL 1989 (United States, 3/1989).  TWA: 5 mg/m³ 8 hours.  ACGIH TLV (United States, 4/2014).  TWA: 5 mg/m³ 8 hours.  NIOSH REL (United States, 10/2013).	
dibenzoyl peroxide	TWA: 5 mg/m³ 10 hours.  OSHA PEL (United States, 2/2013).  TWA: 5 mg/m³ 8 hours.  ACGIH TLV (United States, 4/2014).	
	TWA: 5 mg/m³ 8 hours.  OSHA PEL 1989 (United States, 3/1989).  TWA: 5 mg/m³ 8 hours.  NIOSH REL (United States, 10/2013).	
	TWA: 5 mg/m³ 10 hours.  OSHA PEL (United States, 2/2013).  TWA: 5 mg/m³ 8 hours.	

# Appropriate engineering controls

: No special measures are required for small quantities under normal and intended conditions of product use.

# **Environmental exposure** controls

: No special measures are required for small quantities under normal and intended conditions of product use.

#### Individual protection measures

Hygiene measures

: No special measures are required for small quantities under normal and intended conditions of product use.

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**

### Section 8. Exposure controls/personal 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.

: No special measures are required for small quantities under normal and intended **Body protection** 

conditions of product use.

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** : Liquid. [Paste.]

Color : Various

Odor : Fruity ester-like

: Not available. **Odor threshold** 

Ha : Not available. **Melting point** : Not available.

**Boiling point** : Not available.

Flash point : Not available.

: Not available. **Evaporation rate** 

Flammability (solid, gas) : Not applicable.

Lower and upper explosive

(flammable) limits

: Not available.

Vapor pressure : Not available. Vapor density : Not available.

Relative density : 1.5 [Water = 1]

: Insoluble in the following materials: cold water and hot water. Solubility

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.

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### 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** : Keep away from heat. Heat can cause polymerization with rapid release of energy.

Incompatible materials : Reactive or incompatible with the following materials: oxidizing materials and reducing

materials.
Amines. Peroxide.

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
(1-methylethylidene)bis(4,	LD50 Oral	Rat	>5000 mg/kg	-
1-phenyleneoxy-2,				
1-ethanediyl) bismethacrylate				
dibutyl phthalate	LD50 Dermal	Rabbit	>25000 mg/kg	-
	LD50 Oral	Rat	7499 mg/kg	-
2,2'-[(4-methylphenyl)imino]	LD50 Oral	Rat	970 mg/kg	-
bisethanol				
3-trimethoxysilylpropyl	LD50 Oral	Rat	23504 mg/kg	-
methacrylate				
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.

#### **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
3-trimethoxysilylpropyl methacrylate	Eyes - Mild irritant	Rabbit		24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
dibenzoyl peroxide	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-

#### **Sensitization**

Not available.

#### **Conclusion/Summary**

Skin : Kligman score: Grade I (weak sensitizer)

#### **Mutagenicity**

### Section 11. Toxicological information

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	Category	Route of exposure	Target organs
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.

Information on the likely

routes of exposure

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

Potential acute health effects

**Eye contact** : Causes serious eye irritation.

**Inhalation** : No known significant effects or critical hazards.

**Skin contact**: Causes skin irritation.

**Ingestion** : No known significant effects or critical hazards.

#### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : Adverse symptoms may include the following:

pain or irritation watering redness

**Inhalation** : Adverse symptoms may include the following:

reduced fetal weight increase in fetal deaths skeletal malformations

### Section 11. Toxicological information

**Skin contact**: Adverse symptoms may include the following:

irritation redness

reduced fetal weight increase in fetal deaths skeletal malformations

**Ingestion**: Adverse symptoms may include the following:

reduced fetal weight increase in fetal deaths skeletal malformations

#### Delayed and immediate effects and also chronic effects from short and long term exposure

**Short term exposure** 

Potential immediate

: Not available.

effects

Potential delayed effects : Not available.

Long term exposure

Potential immediate : No

effects

: Not available.

Potential delayed effects : Not available.

Potential chronic health effects

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**: May damage the unborn child.

**Developmental effects**: No known significant effects or critical hazards.

Fertility effects : Suspected of damaging fertility.

#### **Numerical measures of toxicity**

#### **Acute toxicity estimates**

Route	ATE value
Oral	42399.4 mg/kg

### Section 12. Ecological information

#### **Toxicity**

Temphase Base and Catalyst Paste

### Section 12. Ecological information

Product/ingredient name	Result	Species	Exposure
dibutyl phthalate	Acute EC50 3.4 μg/l Marine water Acute EC50 2990 μg/l Fresh water Acute LC50 480 μg/l Fresh water	Algae - Gymnodinium breve Daphnia - Daphnia magna Fish - Lepomis macrochirus - Juvenile (Fledgling, Hatchling, Weanling)	96 hours 48 hours 96 hours
	Chronic NOEC 210 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Chronic NOEC 500 µg/l Fresh water Chronic NOEC 25 µg/l Fresh water	Daphnia - Daphnia magna Fish - Danio rerio - Embryo	21 days 5 weeks

#### 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
dibutyl phthalate 2,2'-[(4-methylphenyl)imino] bisethanol	4.46 1.09	165.96	low low
3-trimethoxysilylpropyl methacrylate	2.1	-	low
dibenzoyl peroxide	3.2	-	low

#### **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.

#### United States - RCRA Toxic hazardous waste "U" List

Ingredient	CAS#		Reference number
Dibutyl phthalate; 1,2-Benzenedicarboxylic acid, dibutyl ester	84-74-2	Listed	U069

# **Section 14. Transport information**

	DOT Classification	IMDG	IATA
UN number	UN3082	UN3082	UN3082
UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (dibutyl phthalate). Marine pollutant (dibutyl phthalate) RQ (dibutyl phthalate)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (dibutyl phthalate). Marine pollutant (dibutyl phthalate)	Environmentally hazardous substance, liquid, n.o.s. (dibutyl phthalate)
Transport hazard class(es)	9	9	9
Packing group	III	III	III
Environmental hazards	Yes.	Yes.	Yes.
Additional information	Non-bulk packages of this product are not regulated as hazardous materials in package sizes less than the product reportable quantity, 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.  Reportable quantity 200 lbs / 90.8 kg [15.991 gal / 60. 533 L] Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.	This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4. 1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1. 1.8.  Emergency schedules (EmS) F-A, S-F  Special provisions 274, 335, 969	This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5. 0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.  Passenger and Cargo Aircraft Quantity limitation: 450 L  Packaging instructions: 964  Cargo Aircraft Only Quantity limitation: 450 L  Packaging instructions: 964  Limited Quantities -  Passenger Aircraft Quantity limitation: 30 kg  Packaging instructions: Y964  Special provisions  A97, A158, A197
	Limited quantity Yes.  Special provisions 8, 146, 173, 335, IB3, T4, TP1, TP29		

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: Siloxanes and Silicones, di-Me, reaction products with silica; mequinol

United States inventory (TSCA 8b): All components are listed or exempted.

Clean Water Act (CWA) 307: dibutyl phthalate; zinc oxide

Clean Water Act (CWA) 311: dibutyl phthalate

Clean Air Act Section 112

(b) Hazardous Air **Pollutants (HAPs)**  : Listed

Clean Air Act Section 602

: Not listed

**Class I Substances** Clean Air Act Section 602

**Class II Substances** 

: Not listed

**DEA List I Chemicals** 

(Precursor Chemicals)

: Not listed

**DEA List II Chemicals** 

: Not listed

(Essential Chemicals)

**SARA 302/304** 

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

			SARA 302 TPQ		SARA 304 RQ	
Name	%	EHS	(lbs)	(gallons)	(lbs)	(gallons)
1,4-dihydroxybenzene	<0.014	Yes.	500 / 10000	-	100	-

**SARA 304 RQ** : 793650.8 lbs / 360317.5 kg [63457.2 gal / 240211.6 L]

**SARA 311/312** 

: Immediate (acute) health hazard Classification

Delayed (chronic) health hazard

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

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
(1-methylethylidene)bis(4, 1-phenyleneoxy-2,1-ethanediyl) bismethacrylate	10-30	No.	No.	No.	Yes.	No.
7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3, 14-dioxa-5,12-diazahexadecane-1, 16-diyl bismethacrylate	10-30	No.	No.	Yes.	Yes.	No.
dibutyl phthalate	1-5	No.	No.	No.	No.	Yes.
2,2'-[(4-methylphenyl)imino]bisethanol	1-5	No.	No.	No.	Yes.	No.
3-trimethoxysilylpropyl methacrylate	1-5	No.	No.	No.	Yes.	No.
dibenzoyl peroxide	0.1-1	No.	No.	Yes.	Yes.	No.

#### **SARA 313**

Temphase Base and Catalyst Paste

### Section 15. Regulatory information

	Product name	CAS number	%
Form R - Reporting requirements	dibutyl phthalate	84-74-2	1-5
Supplier notification	dibutyl phthalate	84-74-2	1-5

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 : The following components are listed: MINERAL WOOL FIBER; DIBUTYL PHTHALATE

New York : The following components are listed: Di-n-butyl phthalate; 1,2-Benzenedicarboxylic acid,

dibutyl ester

New Jersey : The following components are listed: DI-N-BUTYL PHTHALATE; 1,

2-BENZENEDICARBOXYLIC ACID, DIBUTYL ESTER

Pennsylvania : The following components are listed: 1,2-BENZENEDICARBOXYLIC ACID, DIBUTYL

**ESTER** 

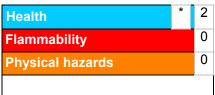
#### California Prop. 65

**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	•	Maximum acceptable dosage level
dibutyl phthalate Titanium dioxide			Yes. No.

### 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.)



### Section 16. Other information

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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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• 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 = 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

: 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.