SAFETY DATA SHEETS

This SDS packet was issued with item:

076460315

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

076460307 076460349



MATERIAL SAFETY DATA SHEET

M.S.D.S. #00340 Page 1 of 2

September 25, 2009

1. Chemical Product and Contact Information

Bond-1® SF Solvent-Free SE Adhesive **Product Name:**

00340 Material Safety Sheet Number: 12/01/08 Date of Issue: **Revision Date:** 09/25/09

Company Identification: Pentron Clinical

1717 West Collins Ave. Orange, CA 92867 Phone: 800-551-0283

203-265-7397

Emergency Information Chemtrec: 800-424-9300 **Chemtrec International:** 202-483-7616

2. Composition/Information on Ingredients

Chemical characteristics: Mixture of UDMA, TEGDMA, HEMA, & 4-MET 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/m³		
	0710 11	OSHA PEL	ACGIH TLV	
UDMA	74389-53-0	N/E	N/E	
TEGDMA	109-10-6	N/E	N/E	
HEMA	868-77-9	N/E	N/E	
4-MET	N/A	N/E	N/E	
Silane treated barium glass	N/E	N/E	N/E	
Silica (amorphous)	69012-64-2	N/E	2R	
Minor additives	Various	N/A	N/A	
Photo Curing System	Various	N/E	N/E	

3. Hazard Identification

Risk identification:

Special risks for human

beings and environment:

None known. 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

After skin contact: Wash with plenty of soap and water.

After eye contact:

Rinse with plenty of water and contact an ophthalmologist.

After swallowing:

Seek medical advice immediately.

5. Fire Fighting Measures

Extinguishing media: CO2, water, dry chemical. Unknown.

Protective equipment:

6. Accidental Release Measures

Personal precautions:

Environmental precautions:

Absorb with inert material. Collect in closed containers and dispose of as

Methods for cleaning up:

recommended. Avoid skin contact, wear protective equipment. Dispose according to Federal, State, and local regulations.

Additional information: Unknown.

7. Handling and Storage Handlina:

Storage:

Practice good hygienic measures. Refrigeration required. Store at 2°-8°C, 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: General measure of protection

Protective gloves, goggles are recommended.

and hygiene:

Normal hygienic measures. Not necessary.

Respiration: Hands: Eyes:

Protective gloves. OSHA approved goggles.

9. Physical and Chemical Properties

Odor:

Form: Appearance: Color: Slightly yellow. Ester-like.

Information on change in the physical state

Melting point/melting range:

Unknown. Unknown Unknown.

Unknown.

Unlikely.

Boiling point/boiling range: Flash point:

Autoignition temperature: Danger of explosion: Density:

1.5 gm/cm3 Vapor pressure: Unknown. Unknown.

pH: Solubility in/miscibility with Water: Content of solvents:

3~4 in uncured state in water. Slightly. None.

Organic solvents: None. Content of solids: ≤50% by weight

10. Stability and Reactivity

Incompatibility with other substances: Stable. Avoid exposure to peroxide and excessive heat. Hazardous decomposition products: Unknown.

11. Toxicological Information

Carcinogenicity:

Viscosity:

None of the components of this material are listed by IARC, NTP, OSHA, or ACGIH as carcinogens.

Unknown. Inhalation, skin, and eyes.

12. Ecological Information

Unknown

General information:

Primary routes of entry:

Classification of water endangerment: 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 guidelines: Unknown.

National Prescriptions: Unknown.

Classification according to VbF: Unknown.

16. Other Information

INFORMATION REFERS.

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

NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH

SAFETY DATA SHEET

Bond-1® SF Solvent-Free SE Adhesive

Section 1. Identification

GHS product identifier

: Bond-1® SF Solvent-Free SE Adhesive

Other means of identification

: Not available.

Product type

: Liquid.

Relevant identified uses of the substance or mixture and uses advised against

Product use : Dental product: Self-etch adhesive

Area of application : Professional applications.

: Pentron Clinical **Manufacturer**

> 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

TOXIC TO REPRODUCTION (Fertility) - Category 2

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract

irritation) - Category 3

Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 39.3%

GHS label elements

Hazard pictograms





Signal word

Warning

Hazard statements

: Causes serious eye irritation. Causes skin irritation.

Suspected of damaging fertility. May cause respiratory irritation.

Precautionary statements

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Section 2. Hazards identification

Prevention

: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wear protective gloves. Wear eye or face protection. Use only outdoors or in a well-ventilated area. Avoid breathing vapor. Wash hands thoroughly after handling.

Response

: IF exposed or concerned: Get medical attention. 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: 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.

Storage

: Store locked up.

Disposal

: Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazards not otherwise classified

: None known.

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	t name Other names		CAS number	
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			
2-hydroxyethyl methacrylate	2-hydroxyethyl methacrylate	5-10	868-77-9	
2,2'-ethylenedioxydiethyl dimethacrylate	2,2'-ethylenedioxydiethyl	5-10	109-16-0	
	dimethacrylate			
diphenyl(2,4,6-trimethylbenzoyl)phosphine	diphenyl(2,4,	0.1-1	75980-60-8	
oxide	6-trimethylbenzoyl)			
	phosphine oxide			

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.

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Section 4. First aid measures

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : Causes serious eye irritation.

Inhalation : May cause respiratory irritation. Exposure to decomposition products may cause a

health hazard. Serious effects may be delayed following exposure.

Skin contact : Causes skin irritation.

: Irritating to mouth, throat and stomach. Ingestion

Over-exposure signs/symptoms

Eye contact : Adverse symptoms may include the following:

> pain or irritation watering redness

Inhalation : Adverse symptoms may include the following:

respiratory tract irritation

coughing

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

The exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments

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.

: In case of inhalation of decomposition products in a fire, symptoms may be delayed.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Notes to physician

Suitable extinguishing

media

: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing

: 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.

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Section 5. Fire-fighting measures

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.

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. 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.

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Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

None

Appropriate engineering

controls

Environmental exposure

controls

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

conditions of product use.

: 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

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

: No special measures are required for small quantities under normal and intended 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. [Gel] Color : Slight. Yellow. Odor : Fruity. Ester. : Not available. **Odor threshold**

Ha : 3 to 4 [uncured, water / Isopropyl alcohol (50/50)]

: Not available. **Melting point Boiling point** : Not available. : Not available. Flash point : Not available. **Evaporation rate** Flammability (solid, gas) : Not applicable. Lower and upper explosive : Not available.

(flammable) limits

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

Solubility : Partially soluble in the following materials: cold water and hot water.

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Section 9. Physical and chemical properties

Solubility in water Partition coefficient: n-

octanol/water

: Not available.

: Not available.

Auto-ignition temperature : Not available. **Decomposition temperature** : Not available.

SADT : Not available. **Viscosity** : Not available. **Density** : 1.5 g/cm³

Section 10. Stability and reactivity

: No specific test data related to reactivity available for this product or its ingredients. Reactivity

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. Initiators. Loss of inhibitor or heat may cause polymerization.

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

Incompatible with peroxides.

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
2-hydroxyethyl methacrylate 2,2'-ethylenedioxydiethyl dimethacrylate	LD50 Oral LD50 Oral		4230 mg/kg 10837 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 ISO 7405:2008 and EN ISO 10993-1:2009.

Irritation/Corrosion

Not available.

Conclusion/Summary

Skin

: Based on the criteria of the protocol, this product is considered a negligible irritant per ISO 10993-10.

Sensitization

Not available.

Conclusion/Summary

Skin : Kligman score: Grade I (weak sensitizer)

Mutagenicity

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Section 11. Toxicological information

: No mutagenic effect.

Product/ingredient name	Test	Experiment	Result
	Bacterial Reverse Mutation Test	Experiment: In vitro	Negative
		Subject: Bacteria	

Conclusion/Summary

Carcinogenicity

Not available.

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
2-hydroxyethyl methacrylate	Category 3	Not applicable.	Respiratory tract irritation
2,2'-ethylenedioxydiethyl dimethacrylate	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 : May cause respiratory irritation. Exposure to decomposition products may cause a

health hazard. Serious effects may be delayed following exposure.

Skin contact: Causes skin irritation.

Ingestion: Irritating to mouth, throat and stomach.

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:

respiratory tract irritation

coughing

reduced fetal weight increase in fetal deaths skeletal malformations

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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

effects

: Not available.

Potential delayed effects

: Not available.

Long term exposure

Potential immediate

: Not available.

effects

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 : No known significant effects or critical hazards.
 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	28831.9 mg/kg

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
2-hydroxyethyl methacrylate	Acute LC50 227000 μg/l Fresh water	Fish - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling)	96 hours

Persistence and degradability

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Section 12. Ecological information

Product/ingredient name	Test	Result		Dose		Inoculum	
2-hydroxyethyl methacrylate	301C Ready Biodegradability - Modified MITI Test (I)	92 to 100 %	% - 14 days	-		-	
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability	
2-hydroxyethyl methacrylate	-	-			Readily		-

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
2-hydroxyethyl methacrylate 2,2'-ethylenedioxydiethyl dimethacrylate	0.42 1.88	-	low low
diphenyl(2,4, 6-trimethylbenzoyl)phosphine oxide	-	53 to 72	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.

Section 14. Transport information

	DOT Classification	IMDG	IATA
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	-	-	-

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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.

Transport in bulk according : Not available.

to Annex II of MARPOL 73/78 and the IBC Code

Section 15. Regulatory information

: TSCA 5(a)2 final significant new use rules: 2-[(2-methyl-1-oxoallyl)oxy]ethyl 1, U.S. Federal regulations

3-dihydro-1,3-dioxoisobenzofuran-5-carboxylate

TSCA 8(a) PAIR: mequinol

TSCA 12(b) one-time export: 2-[(2-methyl-1-oxoallyl)oxy]ethyl 1,3-dihydro-1,

3-dioxoisobenzofuran-5-carboxylate

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

(Essential Chemicals)

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : Immediate (acute) health hazard

Delayed (chronic) health hazard

Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
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.
2-hydroxyethyl methacrylate	5-10	No.	No.	No.	Yes.	No.
2,2'-ethylenedioxydiethyl dimethacrylate	5-10	Yes.	No.	No.	Yes.	No.
diphenyl(2,4,6-trimethylbenzoyl) phosphine oxide	0.1-1	No.	No.	No.	No.	Yes.

SARA 313

Not applicable.

State regulations

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Section 15. Regulatory information

Massachusetts : The following components are listed: MINERAL WOOL FIBER

New York : 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.

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

Date of issue/Date of

revision

: 01/05/2015

Date of previous issue

: No previous validation

Version

: 1

Prepared by

: IHS

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

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Section 16. Other information

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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