

Safety Data Sheet

according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

Date of issue: 08/23/2019 Revision date: n/a Printed: 08/23/2019 Version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name : Endurable Concrete Armor-Component 1

Product code : n/a

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

Use of the substance/mixture : Industrial use
Construction coating

Use advised against : None identified

1.3. Details of the supplier of the safety data sheet

HDIP Inc.
20407 Christmas Rdg.
Bend, OR 97702
Tel: 800-910-3120

1.4. Emergency telephone number

Emergency number : 800-910-3120
Mon - Fri 8:30- 4:30 (PST)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification

SKIN IRRITATION - Category 2

EYE IRRITATION - Category 2A

SKIN SENSITISATION - Category 1

2.2. GHS label elements

Hazard pictograms:



Signal word: Warning

Hazard statements:

H315 Causes skin irritation.

H319 Causes serious eye irritation.

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H317 May cause an allergic skin reaction.

Precautionary statements:

General: Not applicable

2.3. Prevention:

Prevention	: Wear protective gloves. Wear eye or face protection. Avoid breathing vapor. Wash hands thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.
Response: IF ON SKIN	: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical attention.
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	: Dispose of contents and container in accordance with all local, regional, national and international regulations.

2.4. Other hazards which do not result in classification:

None known.

SECTION 3: Composition/information on ingredients

3.1. Substances/Mixture:

Mixture

Name	CAS	%
Solid Epoxy Resin (Proprietary)		50-75
Diacetone Alcohol	123-42-2	0-5
2-Propanol, 1-butoxy	5131-66-8	0-3
Oxirane, Mono[(C12-14-alkyloxy)methyl] Derivs.	68609-97-2	
1-Methoxy-2-Propanol	107-98-2	
Poly(oxy-1,2-ethanediyl), .alpha.-(2-propylheptyl)-.omega.-hydroxy-	160875-66-1	

*Occupational exposure limits, if available, are listed in Section 8.

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SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- First-aid measures after skin contact : Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- First-aid measures after eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
- First-aid measures after ingestion : Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

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

4.3. Notes to physician:

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

4.4. Specific treatments:

No specific treatment.

4.5. Protection of first aid personnel:

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. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.6. See toxicological information (Section 11)

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire.
- Unsuitable extinguishing media : None known.

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5.2. Special hazards arising from the chemical: In a fire or if heated, a pressure increase will occur and the container may burst.

5.3. Hazardous thermal decomposition products:

Decomposition products may include the following materials: carbon dioxide carbon monoxide.

5.4. Advice for firefighters

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

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

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders: : For emergency responders: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials.

See also the information in "For non-emergency personnel".

6.2. Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3. Methods and material for containment and cleaning up

Methods and material for containment and cleaning up : Small spill: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13 of SDS). Dispose of via a licensed waste disposal contractor.

Contaminated absorbent material may pose the same hazard as the spilled product.

Note: see section 1 of SDS for emergency contact information and section 13 of SDS for waste disposal.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Protective measures : Put on appropriate personal protective equipment (see section 8 of SDS). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2. Conditions for safe storage, including any incompatibilities

- 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 of SDS) 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.

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Solid Epoxy Resin (Proprietary)	None.
2-Propanol, 1-butoxy	None.
Diacetone Alcohol	ACGIH TLV (1994-09-01) TWA 238 mg/m3 50 ppm OSHA PEL 1989 (1989-03-01) TWA 240 mg/m3 50 ppm OSHA PEL (1993-06-30) TWA 240 mg/m3 50 ppm NIOSH REL (1994-06-01) TWA - TLV and PEL 240 mg/m3 50 ppm
Oxirane, Mono[(C12-14-alkyloxy)methyl] Derivs.	None.
1-Methoxy-2-Propanol	ACGIH TLV (2013-06-14) TWA 184 mg/m3 50 ppm STEL 369 mg/m3 100 ppm OSHA PEL 1989 (1989-03-01) TWA 360 mg/m3 100 ppm STEL 540 mg/m3 150 ppm NIOSH REL (1994-06-01) TWA - TLV and PEL 360 mg/m3 100 ppm STEL 540 mg/m3 150 ppm
Poly(oxy-1,2-ethanediyl), .alpha.-(2-propylheptyl)-.omega.-hydroxy-	None.
2-Propanol, 1-butoxy	None.

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Diacetone Alcohol	ACGIH TLV (1994-09-01) TWA 238 mg/m ³ 50 ppm OSHA PEL 1989 (1989-03-01) TWA 240 mg/m ³ 50 ppm OSHA PEL (1993-06-30) TWA 240 mg/m ³ 50 ppm
	NIOSH REL (1994-06-01) TWA - TLV and PEL 240 mg/m ³ 50 ppm
Solid Epoxy Resin (Proprietary)	None.

8.2. Exposure controls

- Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
- Appropriate engineering controls : No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.
- Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

- Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: 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.

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- Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- 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 : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- Physical state : Liquid
- Color : White
- Odor : Mild
- Odor threshold : No data available
- pH : 7.0-9.0
- Melting point : No data available
- Freezing point : No data available
- Boiling point : No data available
- Flash point : 43.4 °C (110.1 °F) (ASTM D 93) Product does not sustain combustion.
- Burning time : No data available
- Burning rate : No data available

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Evaporation rate	: No data available
Flammability (solid, gas)	: Not applicable
Lower and upper explosive (flammable) limits	: Lower: Not available Upper: Not available
Vapor pressure	: No data available
Vapor density	: No data available
Relative density	: 1.0725 @ 25 °C (77 °F)
Solubility	: No data available
Solubility in water	: Miscible
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
SADT	: No data available
Viscosity: Dynamic	: 3 - 6 Pa·s @ 25 °C (77 °F)
Kinematic	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions.

10.2. Chemical stability

The product is stable.

10.3. Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

10.4. Conditions to avoid

No specific data.

10.5. Incompatible materials

No specific data.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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SECTION 11: Toxicological information

Information on toxicological effects

11.1. Acute toxicity

<u>Product/ingredient name</u>	<u>Result</u>	<u>Species</u>	<u>Dose</u>	<u>Exposure</u>
Oxirane, Mono[(C12-14-alkyloxy)methyl] Derivs.	LD50 Oral	Rat	17,100 mg/kg	—
1-Methoxy-2-Propanol	LD50 Oral	Rat	3,739 mg/kg	—
	LC50 Inhalation	Rat		5 hr
	LD50 Dermal	Rabbit	13,536 mg/kg	—
Poly(oxy-1,2-ethanediyl), .alpha.-(2-propylheptyl)-.omega.-hydroxy-	LD50 Oral	Rat	500 - 2,000 mg/kg	—
2-Propanol, 1-butoxy	LD50 Oral	Rat-female	> 2,124 mg/kg	—
	LD50 Oral	Rat-male	> 2,612 mg/kg	—
	LC50 Inhalation	Rat	> 3,412 mg/l	4 hr
	LD50 Dermal	Rat	> 2,000 mg/kg	—
	LD50 Dermal	Rabbit	3,100 mg/kg	—
Diacetone Alcohol	LD50 Oral	Rat	4,000 mg/kg	—
	LD50 Oral	Rat	2,520 mg/kg	—
	LD50 Dermal	Rabbit	13,500 mg/kg	—
Solid Epoxy Resin (Proprietary)	LD50 Oral	Rat	> 2,000 mg/kg	—
	LD50 Dermal	Rat	> 2,000 mg/kg	—

Conclusion/Summary: Not available

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11.2. Irritation/Corrosion

<u>Product/ingredient name</u>	<u>Result</u>	<u>Species</u>	<u>Score</u>	<u>Exposure</u>	<u>Observation</u>
Oxirane, Mono[(C12-14-alkyloxy)methyl] Derivs.	Skin - Primary dermal irritation index (PDI) OTS 798.4470 Acute Dermal Irritation	Rabbit	4.1	24 hrs	72 hrs
	Skin-	Rabbit	5.75	24 hrs	72 hrs
	Primary dermal irritation index (PDI) 404 Acute Dermal Irritation/Corrosion	—	—	—	—
	eyes - Cornea opacity 405 Acute Eye Irritation/Corrosion	Rabbit	2	—	1-24 hrs
	Skin - Moderate irritant	Rabbit	—	24 hrs	—
Diacetone Alcohol	eyes - Severe irritant	Rabbit	—	24 hrs	—
	Skin - Mild irritant	Rabbit	—	—	—
	eyes - Severe irritant	Rabbit	—	—	—

Conclusion/Summary

Skin : Not available

Eyes : Not available

Respiratory : Not available

Sensitization

Conclusion/Summary

Skin : Not available

Respiratory : Not available

Mutagenicity

Conclusion/Summary : Not available

Carcinogenicity

Conclusion/Summary : Not available

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Reproductive toxicity

Conclusion/Summary : Not available

Teratogenicity

Conclusion/Summary : Not available

11.3. Specific target organ toxicity (single exposure)

<u>Product/ingredient name</u>	<u>Category</u>	<u>Route of exposure</u>	<u>Target organs</u>
1-Methoxy-2-Propanol	Category 3	—	Narcotic effects
Poly(oxy-1,2-ethanediyl), .alpha.-(2-propylheptyl)-.omega.-hydroxy-	Category 3	—	Respiratory tract irritation
2-Propanol, 1-butoxy	Category 3	—	Respiratory tract irritation
Diacetone Alcohol	Category 3	—	Respiratory tract irritation

Specific target organ toxicity (repeated exposure): Not available

Aspiration hazard: Not available

Information on likely routes of exposure: Not available

11.4. Potential acute health effects

Eye contact: Causes serious eye irritation.

Inhalation: No known significant effects or critical hazards.

Skin contact: Causes skin irritation. May cause an allergic skin reaction.

Ingestion: No known significant effects or critical hazards.

11.5. Symptoms related to 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: Adverse symptoms may include the following: irritation redness

Ingestion: No specific data.

11.6. Delayed and immediate effects as well as chronic effects from short and long-term exposure

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Short term exposure

Potential immediate effects: Not available

Potential delayed effects: Not available

Long term exposure

Potential immediate effects: Not available

Potential delayed effects: Not available

Potential chronic health effects

Conclusion/Summary: Not available

General: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

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: No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Oral	20,247.2 mg/kg

SECTION 12: Ecological information

12.1. Toxicity

<u>Product/ingredient name</u>	<u>Result</u>	<u>Species</u>	<u>Exposure</u>
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	Acute LC50 > 1.8 g/l - 203 Fish, Acute Toxicity Test	Fish - Rainbow trout,donaldson trout	96 h
	Acute LC50 > 5.0 g/l - 203 Fish, Acute Toxicity Test	Fish - Bluegill	96 h

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	Acute EC50 7.2 mg/l - 202 Daphnia sp. Acute Immobilization Test and Reproduction Test	Aquatic invertebrates. Water flea	48 h
	Acute EC50 844 mg/l - 201 Alga, Growth Inhibition Test	Aquatic plants - Algae	72 h
4-hydroxy-4-methylpentan-2-one	Acute LC50 420,000 µg/l Fresh water	Fish - Fish	96 h

Conclusion/Summary: Not available.

12.2. Persistence/degradability

Conclusion/Summary: Not available.

12.3. Bioaccumulative potential

<u>Product/ingredient name</u>	<u>LogPow</u>	<u>BCF</u>	<u>Potential</u>
Oxirane, Mono[(C12-14-alkyloxy)methyl] Derivs.	3.77	160 - 263 160.00	Low
2-Propanol, 1-butoxy	1.15	—	Low
Diacetone Alcohol	-0.14 - 1.03	—	Low

12.4. Mobility in soil

Soil/water partition coefficient (KOC): Not available

12.5. Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal methods: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

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SECTION 14: Transport information

The data provided in this section is for information only and may not be specific to your package size or mode of transport. You will need to apply the appropriate regulations to properly classify your shipment for transportation.

14.1. International transport regulations

<u>Regulatory information</u>	<u>UN/NA number</u>	<u>Proper shipping name</u>	<u>Classes/*PG</u>	<u>Reportable Quantity (RQ)</u>
CFR		Non-regulated		
TDG		Non-regulated		
IMO/IMDG		Non-regulated		
IATA (Cargo)		Non-regulated		

*PG : Packing group

14.2. 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.

SECTION 15: Regulatory information

15.1. US Federal regulations

Section 15. Regulatory information

United States

U.S. Federal regulations:

United States - TSCA 12(b) - Chemical export notification: None required.

United States - TSCA 5c2 - Final significant new use rules: Not listed

United States - TSCA 5c2 - Proposed significant new use rules: Not listed

United States - TSCA 5(e) - Substances consent order: Not listed

SARA 311/312 Classification - Immediate (acute) health hazard

California Prop. 65:

WARNING: This product contains a chemical known to the State of California to cause cancer., **WARNING:** This product contains less than 1% of a chemical known to the State of California to cause birth defects or other reproductive harm.

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

Trade Secret: The claim for trade secret has been filed in Canada under HMIRC.

15.2. International regulations

International lists:

Australia inventory (AICS): Not determined.

Canada inventory: At least one component is not listed in DSL but all such components are listed in NDSL.

Japan inventory: Not determined.

China inventory (IECSC): Not determined.

Korea inventory: All components are listed or exempted.

New Zealand Inventory (NZIoC): Not determined.

Philippines inventory (PICCS): Not determined.

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

Taiwan inventory (CSNN): All components are listed or exempted.

15.3. Additional information:

One or more components have been granted exemption status for the Chinese Inventory (IECSC). Volume and validity restrictions may apply. Check with supplier for update.

SECTION 16: Other information

Indication of changes : Not applicable

Revision date : Not applicable

Hazardous Material Information System III (U.S.A.) :

Health: 2

Flammability: 1

Physical hazards: 0

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 MSDSs 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).

The customer is responsible for determining the PPE code for this material. For more information on HMIS[®] Personal Protective Equipment (PPE) codes, consult the HMIS[®] Implementation Manual.

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product