PRODUCT NAME: ABRO Epoxy Steel Adhesive (one hour) (Hardener)

PRODUCT NUMBER/SIZE: ES-508 / 2 oz. **Revision Date: 08/13/2020**

SECTION 1
Identification of the Substance and of the Company/Undertaking

MANUFACTURER'S NAME:	**ABRO INDUSTRIES, INC.**
ADDRESS:	**3580 Blackthorn Court South Bend, IN 46628 USA**
PRODUCT DESCRIPTION:	**Adhesive (Part A)**
COMPANY PHONE:	**574-232-8289**
EMERGENCY 24-HR TELEPHONE:	**Chemtrec: US/Canada 1-800-424-9300 International +1-703-527-3887**

SECTION 2
Hazards Identification

GHS classification in accordance with: (US) OSHA (29 CFR 1910.1200)

- Skin corrosion/irritation (chapter 3.2), Cat. 2
- Eye damage/irritation (chapter 3.3), Cat. 2A

-Skin sensitization Cat. 1

-Carcinogenicity Cat. 2

Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 2.2%

Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 2.2%

Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 2.2%

Label Pictogram(s):

Signal Word: **WARNING**

Hazard Phrases: Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. Suspected of causing cancer.

Precautionary Phrases:	Wash hands thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing vapor.
Response:	IF ON SKIN: Wash with plenty of water and soap. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. 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 advice/attention.
Storage / Disposal:	Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations.
Other hazards which do not result in classification	This product contains chemicals known to cause cancer. FOR PROFESSIONAL USE ONLY. This product must be mixed with other components before use. Before opening the packages, READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS. Keep out of reach of children. Do not transfer contents to other containers for storage.

SECTION 3
Composition/Information on Ingredients

Mixtures:

Hazardous components

Component Concentration	% Weight
Calcium carbonate (Natural) (CAS no.: 471-34-1)	>= 25 - <= 50
Epoxy Polymer (CAS no.: 1675-54-3)	>= 25 - <= 50
Iron Oxide (CAS no.: 1309-37-1)	>= 10 - <= 25
Magnesium Carbonate (CAS no.: 546-93-0)	<= 10
Distillates (petroleum), catalytic reformer fractionator residue, intermediate boiling (CAS no.: 68477-30-5)	<= 3
Amorphous Silica (CAS no.: 7631-86-9)	<= 3
Carbon Black (CAS no.: 1333-86-4)	<= 0.3

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.

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

SECTION 4
First Aid Measures

First Aid Measures

General Advice	If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

	Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children
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. 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.
Skin Contact	Wash contaminated skin with plenty of soap and water. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
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.
If Swallowed	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.
Personal Protective Equipment for first-aid responders	Use personal protective equipment as required. 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.

Most important symptoms/effects, acute and delayed
Causes serious eye irritation.
Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
Causes skin irritation. May cause an allergic skin reaction.
If ingested, Irritating to mouth, throat and stomach.

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.

No specific treatment.

Protection of first-aiders
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.

SECTION 5
Fire Fighting Measures

Suitable Extinguishing Media:	Carbon dioxide, dry chemical, foam
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 and/or metal oxide(s)
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 should be taken involving any personal risk or without suitable training. Protective equipment for firefighters: Firefighters should wear full protective clothing including self-contained breathing apparatus, SCBA (approved or equivalent)

SECTION 6
Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:	Keep unnecessary personnel away. Do not touch or walk through spilled material. Ensure adequate ventilation. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.
Methods and materials for containment and cleaning up:	Stop the flow of material, if this is without risk. Before attempting clean up, refer to hazard data given above. Dampen material with water and use shovel or scoop to collect material in clean container for proper disposal. Rinse area with water. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice.
Environmental Precautions:	Prevent entry into waterways, sewers, basements or confined areas. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

SECTION 7
Handling and Storage

Precautions for Safe Handling

Precautions for safe handling:	Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special

	instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. 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:	Use good industrial hygiene practices in handling this material. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated skin contact with this material. Wash thoroughly after handling. Avoid breathing vapors or mist. Use personal protective equipment as required.
Conditions for safe storage, including any incompatibilities:	Keep out of reach of children. 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. See Section 10 for incompatible materials before handling or use.

SECTION 8
Exposure Controls/Personal Protection

Control parameters
Occupational exposure limits (OSHA United States)

CAS: 471-34-1
Calcium Carbonate
NIOSH REL (United States, 10/2016)
TWA: 5 mg/m³ 10 hours. Form: Respirable fraction
TWA: 10 mg/m³ 10 hours. Form: Total
CAS: 1675-54-3
bis-[4-(2,3-epoxipropoxi) phénol] propane
None
CAS: 1309-37-1
Iron Oxide
NIOSH REL (United States, 10/2016)
TWA: 5 mg/m³, (as Fe) 10 hours. Form: Dust and fumes
OSHA PEL (United States, 5/2018)
TWA: 5 mg/m³ 8 hours.
ACHIH TLV (United States, 3/2019)
TWA: 5 mg/m³ 8 hours. Form: Respirable fraction
CAS: 546-93-0
Magnesium Carbonate
NIOSH REL (United States, 10/2016)
TWA: 5 mg/m³ 10 hours. Form: Respirable fraction
TWA: 10 mg/m³ 10 hours. Form: Total
OSHA PEL (United States, 5/2018)
TWA: 5 mg/m³ 8 hours. Form: Respirable fraction

TWA: 15 mg/m³ 8 hours. Form: Total dust

CAS: 68477-30-5

Distillates (petroleum), catalytic reformer fractionator residue, intermediate boiling

None

CAS: 7631-86-9

Amorphous Silica

NIOSH REL (United States, 10/2016)
TWA: 6 mg/m³ 10 hours.
TWA: 0.1 mg of PAHs/cm³ 10 hours.
ACGIH TLV (United States, 3/2019)
TWA: 3 mg/m³ 8 hours. Form: Inhalable fraction
OSHA PEL (United States, 5/2018)
TWA: 3.5 mg/m³ 8 hours.

Occupational exposure limits (Canada)

CAS: 1333-86-4

Carbon Black

NIOSH REL (United States, 10/2016)
TWA: 3.5 mg/m³ 10 hours.
CA British Columbia Provincial (Canada, 5/2019)
TWA: 3 mg/m³ 8 hours. Form: Inhalable
CA Ontario Provincial (Canada, 1/2018)
TWA: 3 mg/m³ 8 hours. Form: Inhalable fraction
CA Alberta Provincial (Canada, 6/2018)
8 hours OEL: 3.5 mg/m³ 8 hours
CA Quebec Provincial (Canada, 1/2014)
TWAEV: 3.5 mg/m³ 8 hours
CA Saskatchewan Provincial (Canada, 7/2013)
STEL: 7 mg/m³ 15 minutes
TWA: 3.5 mg/m³ 8 hours

Occupational exposure limits (Mexico)

None

Appropriate engineering controls

If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants 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, such as personal protective equipment (PPE)

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
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
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.

General hygiene considerations:
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.

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

Information on basic physical and chemical properties

Appearance/form (physical state, color, etc.)	Liquid
Odor	Not available
Odor threshold	Not available
pH	Not available
Melting point/freezing point	Not available
Initial boiling point and boiling range	Not available
Flash point	Closed cup: >94°C (>201.2°F) [Pensky-Martens.
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Upper/lower flammability limits	Not applicable
Upper/lower explosive limits	Not applicable
Vapor pressure	Not available
Vapor density	Not available
Relative density	1.88
Solubility(ies)	Not available
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Kinematic (40°C (104°F)): >0.205 cm^2/s (>20.5 cSt)
Molecular weight	Not applicable
Aerosol product	
Heat of combustion	0.0006 kJ/g

SECTION 10
Stability and Reactivity

Reactivity

No data available.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Conditions to avoid

No data available.

Incompatible materials

No data available.

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

Calcium Carbonate: LD50 Oral Rat 6450 mg/kg
Bis-[4-(2,3-epoxipropoxi) phenyl] propane: LD50 Dermal Rabbit 20 g/kg
Magnesium Carbonate: LD50 Oral Rat 8000 mg/kg
Carbon Black: LD50 Oral Rat >15400 mg/kg

Skin corrosion/irritation

Calcium Carbonate
Eyes - Severe irritant Rabbit – 24 hours 750 ug
Skin - Moderate irritant Rabbit – 24 hours 500 mg

Bis-[4-(2,3-epoxipropoxi) phenyl] propane
Eyes – Severe irritant Rabbit – 24 hours 2 mg
Skin - Mild irritant Rabbit – 500 mg

Amorphous Silica
Eyes – Mild irritant Rabbit – 24 hours 25 mg

Sensitization

Not available

Mutagenicity

Not available

Carcinogenicity

Not available

Classification
IARC
Bis-[4-(2,3-epoxipropoxi) phenyl] propane – 3
Iron Oxide – 3
Amorphous Silica – 3
Carbon Black – 2B

Reproductive toxicity
Not available

Teratogenicity
Not available

Specific target organ toxicity (single exposure)
Not available

Specific target organ toxicity (repeated exposure)
Not available

Aspiration Hazard
Distillates (petroleum), catalytic reformer fractionator residue, intermediate-boiling
Aspiration Hazard – CAT 1

Information on the likely routes of exposure:
Not available

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.

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.

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 effects:	Not available.
Potential delayed effects:	Not available.
Potential chronic health effects	Not available.

General:	Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity:	Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.

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 Not available.

SECTION 12
Ecological Information

Toxicity

Product Name	Result	Species	Exposure
Calcium Carbonate	Acute LC50 >56000 ppm Fresh water Chronic NOEC 61 mg/g Fresh water	Fish - Gambusia affinis – Adult Fish - Oncorhynchus mykiss Juvenile (Fledgling, Hatchling, Weanling)	96 hours 28 days

Persistence and degradability
There is no data available.

Bioaccumulative potential
There is no data available.

Mobility in soil
Not available

Other adverse effects
No known significant effects or critical hazards.

SECTION 13
Disposal Considerations

Disposal of the product
The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should 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.

Disposal of contaminated packaging
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 empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Do not reuse container.

Sewage disposal
Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14
Transport Information

	DOT Classification	TDG Classification	Mexico Classification	IATA	IMDG
UN number	Not regulated	Not regulated	Not regulated	UN3082	UN3082
UN proper shipping name	-	-	-	Environmentally Hazardous Substance, Liquid, N.O.S. (Epoxy Polymer)	Environmentally Hazardous Substance, Liquid, N.O.S. (Epoxy Polymer) Marine pollutant (Epoxy Polymer)
Transport hazard class(es)	-	-	-		
Packing group	-	-	-	III	III
Environmental hazards	No	No	No	Yes	Yes
Additional information	-	-	-	This product is not regulated as a dangerous good when transported in sizes of =<5 L or =<5 kg, provided the packaging meet the general provisions of 5.0.5.4.1. 5.0.2.6.1.1 and 5.0.2.8.	This product is not regulated as a dangerous good when transported in sizes of =<5 L or =<5 kg, provided the packaging 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** F-A, S-F

Special precautions for user:
The presence of a shipping description for a particular mode of transport (sea, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole

responsibility of the person offering the product for transport. People loading and unloading dangerous goods must be trained on all of the risks deriving from the substances and on all actions in case of emergency situations.: Not available

Transport in bulk according to Annex II of MARPOL and IBC Code:
Multi-modal shipping descriptions are provided for informational purposes

Proper shipping name: Not available.
Ship type: Not available.
Pollution category: Not available.

SECTION 15
Regulatory Information

Safety, health and environmental regulations specific for the product in question

International regulations

Australia inventory (AICS):
Not determined

China inventory (IECSC):
Not determined

Japan inventory (ENCS):
Not determined

Japan inventory (ISHL):
Not determined

Korea inventory (KECI):
Not determined

New Zealand inventory of chemicals (NZIoC):
Not determined

Philippines inventory (PICCS):
Not determined

Taiwan chemical substances inventory (TCSI):
Not determined

Thailand inventory:
Not determined

Turkey inventory:
Not determined

Vietnam inventory:
Not determined

Chemical Safety Assessment

U.S. Federal regulations: TSCA 8(a) CDR Exempt/Partial Exemption: Not determined
United States inventory (TSCA 8b): Not determined

CLEAN AIR ACT SECTION 112: Not listed

CLEAN AIR ACT SECTION 602 - CLASS I SUBSTANCES: Not listed
CLEAR AIR ACT SECTION 602 - CLASS II STUBSTANCES: Not listed
DEA LIST I CHEMICALS: Not listed
DEA LIST II CHEMICALS: Not listed

SARA 313: supplier notification can be found on the Environmental Data Sheet

CALIFORNIA PROP. 65: WARNING: This product contains chemical known to the State of California to cause cancer.

HMIS Rating

60 Minute Epoxy Steel Hardener	
HEALTH	2
FLAMMABILITY	1
PHYSICAL HAZARD	0
PERSONAL PROTECTION	B

NFPA Rating

SECTION 16
Other Information

We believe all information given is accurate. It is offered in good faith but without guarantee. Since conditions of use are beyond our control, user assumes all responsibility and risk.

The supplier disclaims all expressed or implied warranties of merchantability or fitness for a specific use, with respect to the product or the information provided herein, except for conformation to contracted specifications. All information appearing herein is based upon data obtained from manufacturers and/or recognized technical sources. While the information is believed to be accurate, we make no representations as to its accuracy or sufficiency. Conditions of use are beyond our control, and therefore users are responsible for verifying the data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product. Users also assume all risks in regards to the publication or use of, or reliance upon, information contained herein. This information relates only to the product designated herein, and does not relate to its use in combination with any other material or process.

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

PRODUCT NAME: ABRO Epoxy Steel Adhesive (one hour) (Hardener)

PRODUCT NUMBER/SIZE: ES-508 / 2 oz. **Revision Date: 08/13/2020**

SECTION 1
Identification of the Substance and of the Company/Undertaking

MANUFACTURER'S NAME:	**ABRO INDUSTRIES, INC.**
ADDRESS:	**3580 Blackthorn Court South Bend, IN 46628 USA**
PRODUCT DESCRIPTION:	**Adhesive (Part B)**
COMPANY PHONE:	**574-232-8289**
EMERGENCY 24-HR TELEPHONE:	**Chemtrec: US/Canada 1-800-424-9300 International +1-703-527-3887**

SECTION 2
Hazards Identification

GHS classification in accordance with: (US) OSHA (29 CFR 1910.1200)

- Skin corrosion/irritation (chapter 3.2), Cat. 2
- Eye damage/irritation (chapter 3.3), Cat. 2A
- Skin sensitization Cat. 1
- Carcinogenicity Cat. 2
- Toxic to Reproduction (Fertility) – CAT 2
- Toxic to Reproduction (Unborn child) – CAT 2
- Specific Target Organ Toxicity (Repeated Exposure) (lungs) – CAT 1

Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 27.6%

Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 30%

Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 32.5%

Label Pictogram(s):

Signal Word:	**DANGER**
Hazard Phrases:	Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. Suspected of causing cancer.
Precautionary Phrases:	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. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.
Response:	IF ON SKIN: Wash with plenty of water and soap. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. 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 advice/attention.
Storage / Disposal:	Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations.
Other hazards which do not result in classification	WARNING: This product contains a chemical known to the State of California to cause cancer. FOR PROFESSIONAL USE ONLY. This product must be mixed with other components before use. Before opening the packages, READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS. Adequate ventilation required when sanding or abrading the dried film. If Adequate ventilation cannot be provided wear an approved particulate respirator (NIOSH approved). Follow respirator manufacturer's directions for respirator use. DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Abrading or sanding of the dry film may release Crystalline Silica which has been shown to cause lung damage and cancer under long term exposure. This product contains a Significant New Use Rule (SNUR) Chemical. Do not allow this product to enter drains, sewers, wastewater treatment systems, groundwater, streams, lakes or ponds. See Environmental Data Sheet (EDS) for additional details. Please refer to the SDS for additional information. Keep out of reach of children. Do not transfer contents to other containers for storage.

SECTION 3
Composition/Information on Ingredients

Mixtures:

Hazardous components

Component Concentration	% Weight
Barium Sulfate (CAS no.: 7727-43-7)	>= 25 - <= 50
Pentaeythritol-PO-mercaptoglycerol (CAS no.: 72244-98-5)	>= 25 - <= 50
Talc (CAS no.: 14807-96-6)	>= 10 - <= 25
Calcium Carbonate (CAS no.: 471-34-1)	<= 10
Magnesium Carbonate (CAS no.: 546-93-0)	<= 10

2,4,6-tris (dimethylaminomethyl) phenol (CAS no.: 90-72-2)	**<= 3**
4-Nonylphenol (CAS no.: 84852-15-3)	**<= 3**
Fumed Amorphous Silica (CAS no.: 112945-52-5)	**<= 3**
Crystalline Silica, respirable powder (CAS no.: 14808-60-7)	**<= 0.3**

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.

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

SECTION 4
First Aid Measures

First Aid Measures

General Advice	If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children
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. 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.
Skin Contact	Wash contaminated skin with plenty of soap and water. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
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.
If Swallowed	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.
Personal Protective Equipment for first-aid responders	Use personal protective equipment as required. 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.

Most important symptoms/effects, acute and delayed
Causes serious eye irritation.
Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
Causes skin irritation. May cause an allergic skin reaction.
If ingested, Irritating to mouth, throat and stomach.

Over-exposure signs/symptoms

Eye:	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
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.

No specific treatment.

Protection of first-aiders
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.

SECTION 5
Fire Fighting Measures

Suitable Extinguishing Media:	Carbon dioxide, dry chemical, foam
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 and/or metal oxide(s)
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 should be taken involving any personal risk or without suitable training.

Protective equipment for firefighters: Firefighters should wear full protective clothing including self-contained breathing apparatus, SCBA (approved or equivalent)

SECTION 6
Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:

Keep unnecessary personnel away. Do not touch or walk through spilled material. Ensure adequate ventilation. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.

Methods and materials 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). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Environmental Precautions:

This product contains a Significant New Use Rule (SNUR) Chemical. Do not allow this product to enter drains, sewers, wastewater treatment systems, groundwater, streams, lakes or ponds. See Environmental Data Sheet (EDS) for additional details.
Prevent entry into waterways, sewers, basements or confined areas. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

SECTION 7
Handling and Storage

Precautions for Safe Handling

Precautions for safe handling:

Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. 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:	Use good industrial hygiene practices in handling this material. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated skin contact with this material. Wash thoroughly after handling. Avoid breathing vapors or mist. Use personal protective equipment as required.
Conditions for safe storage, including any incompatibilities:	Keep out of reach of children. 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. See Section 10 for incompatible materials before handling or use.

SECTION 8
Exposure Controls/Personal Protection

Control parameters
Occupational exposure limits (OSHA United States)

CAS: 7727-43-7
Barium Sulfate
ACGIH TLV (United States, 3/2019)
TWA: 5 mg/m³ 8 hours. Form: Inhalable fraction
NIOSH REL (United States, 10/2016)
TWA: 5 mg/m³ 10 hours. Form: Respirable fraction
TWA: 10 mg/m³ 10 hours. Form: Total
OSHA PEL (United States, 5/2018)
TWA: 5 mg/m³ 8 hours. Form: Respirable fraction
TWA: 15 mg/m³ 8 hours. Form: Total dust

CAS: 72244-98-5
Pentaerythritol-PO-mercaptoglycerol
None

CAS : 14807-96-6
Talc
NIOSH REL (United States, 10/2016)
TWA: 2 mg/m³ 10 hours. Form: Respirable fraction
ACGIH TLV (United States, 3/2019)
TWA: 2 mg/m³ 8 hours. Form: Respirable fraction

CAS: 471-34-1
Calcium Carbonate
NIOSH REL (United States, 10/2016)
TWA: 5 mg/m³ 10 hours. Form: Respirable fraction
TWA: 10 mg/m³ 10 hours. Form: Total

CAS: 546-93-0
Magnesium Carbonate
NIOSH REL (United States, 10/2016)
TWA: 5 mg/m³ 10 hours. Form: Respirable fraction
TWA: 10 mg/m³ 10 hours. Form: Total

OSHA PEL (United States, 5/2018)
TWA: 5 mg/m³ 8 hours. Form: Respirable fraction
TWA: 15 mg/m³ 8 hours. Form: Total dust

CAS : 90-72-2

2,4,6-tris (dimethylaminomethyl) phénol

None

CAS : 84852-15-3

4-Nonylphenol

None

CAS: 112945-52-5

Fumed Amorphous Silica
NIOSH REL (United States, 10/2016)
TWA: 6 mg/m³ 10 hours.

CAS : 14808-60-7

Crystalline Silica, respirable powder
OSHA PEL Z3 (United States, 6/2016)
TWA: 250 mppcf / (%SiO2+5) 8 hours. Form: Respirable
TWA: 10 mg/m³ (%SiO2+2) 8 hours. Form: Respirable
OSHA PEL (United States, 5/2018)
TWA: 50 ug/m³ 8 hours. Form: Respirable dust
ACGIH TLV (United States, 3/2019)
TWA: 0.025 mg/m³ 8 hours. Form: Respirable fraction
NIOSH REL (United States, 10/2016)
TWA: 0.05 mg/m³ 10 hours. Form: Respirable dust

Occupational exposure limits (Canada)

CAS: 14807-96-6

Talc (none asbestiform)
CA British Columbia Provincial (Canada, 5/2019)
TWA: 2 mg/m³ 8 hours. Form: Respirable
TWA: 0.1 f/cc 8 hours.
CA Quebec Provincial (Canada, 1/2014)
TWAEV: 3 mg/m³ 8 hours. Form: Respirable dust
CA Ontario Provincial (Canada, 1/2018)
TWA: 2 mg/m³ 8 hours. Form: Respirable fraction
TWA: 2 f/cc 8 hours
CA Alberta Provincial (Canada, 6/2018)
8 hours OEL: 2 mg/m³ 8 hours Form: Respirable particulate
CA Saskatchewan Provincial (Canada, 7/2013)
TWA: 2 mg/m³ 8 hours. Form: Respirable fraction

CAS: 14808-60-7

Quartz
CA British Columbia Provincial (Canada, 5/2019)
TWA: 0.025 mg/m³ 8 hours. Form: Respirable
CA Quebec Provincial (Canada, 1/2014)
TWAEV: 0.1 mg/m³ 8 hours. Form: Respirable dust
CA Ontario Provincial (Canada, 1/2018)
TWA: 0.1 mg/m³ 8 hours. Form: Respirable fraction
CA Alberta Provincial (Canada, 6/2018)
8 hours OEL: 0.025 mg/m³ 8 hours Form: Respirable particulate
CA Saskatchewan Provincial (Canada, 7/2013)
TWA: 0.05 mg/m³ 8 hours. Form: Respirable fraction

Occupational exposure limits (Mexico)

None

Appropriate engineering controls

If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Environmental exposure controls

This product contains a Significant New Use Rule (SNUR) Chemical. Do not allow this product to enter drains, sewers, wastewater treatment systems, groundwater, streams, lakes or ponds. See Environmental Data Sheet (EDS) for additional details

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, such as personal protective equipment (PPE)

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

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

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.

General hygiene considerations:

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.

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

Information on basic physical and chemical properties

Appearance/form (physical state, color, etc.)	Liquid
Odor	Not available
Odor threshold	Not available
pH	Not available
Melting point/freezing point	Not available
Initial boiling point and boiling range	Not available
Flash point	Closed cup: 94°C (201.2°F) [Pensky-Martens]
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Upper/lower flammability limits	Not applicable
Upper/lower explosive limits	Not applicable
Vapor pressure	Not available
Vapor density	Not available
Relative density	2.04
Solubility(ies)	Not available
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Kinematic (40°C (104°F)): >0.205 cm^2/s (>20.5 cSt)
Molecular weight	Not applicable
Aerosol product	
Heat of combustion	2.145 kJ/g

SECTION 10
Stability and Reactivity

Reactivity

No data available.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Conditions to avoid

No data available.

Incompatible materials

No data available.

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
Calcium Carbonate: LD50 Oral Rat 6450 mg/kg
Magnesium Carbonate: LD50 Oral Rat 8000 mg/kg
2,4,6-tris (dimethylaminomethyl) phenol: LD50 Dermal Rat 1280 mg/kg
LD50 Oral Rat 1200 mg/kg
4-Nonylphenol: LD50 Oral Rat 1300 mg/kg
Fumed Amorphous Silica: LD50 Oral Rat 3160 mg/kg

Skin corrosion/irritation
Talc
Skin – Mild irritant Human – 72 hours 300ug I

Calcium Carbonate
Eyes - Severe irritant Rabbit – 24 hours 750 ug
Skin - Moderate irritant Rabbit – 24 hours 500 mg

2,4,6-tris (dimethylaminomethyl) phenol
Eyes – Severe irritant Rabbit – 24 hours 50 ug
Skin - Mild irritant Rat – 0.025 MI
Skin – Severe irritant Rat – 0.25 MI
Skin – Severe irritant Rabbit – 24 hours 2 mg

4-Nonylphenol
Eyes – Severe irritant Rabbit – 100 mg
Skin – Severe irritant Rabbit – 24 hours 500 mg

Sensitization
Not available

Mutagenicity
Not available

Carcinogenicity
Not available

Classification
IARC
- Talc – 3
- Fumed Amorphous Silica – 3
- Crystalline Silica, respirable powder – 1

NTP
- Crystalline Silica, respirable powder – Known to be a human carcinogen

Reproductive toxicity
Not available

Teratogenicity
Not available

Specific target organ toxicity (single exposure)

Not available

Specific target organ toxicity (repeated exposure)
Talc
Category: 1 Exposure: Inhalation Target organs: lungs

Crystalline Silica, respirable powder
Category: 1 Exposure: Inhalation Target organs: not determined

Aspiration Hazard
Not available.

Information on the likely routes of exposure :
Not available

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.

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
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 effects :	Not available.
Potential delayed effects :	Not available.
Potential chronic health effects	Not available.

General :	Causes damage to organs through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity :	Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
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

Oral – ATE value 18433.33 mg/kg

Dermal – ATE value 36341.85 mg/kg

SECTION 12
Ecological Information

Toxicity

Product Name	Result	Species	Exposure
Barium Sulfate	Acute EC50 634 mg/l Fresh water	Crustaceans – Cypris subglobosa	48 hours
	Acute EC50 32 mg/l Fresh water	Daphnia – Daphnia magna	48 hours
	Acute LC50 >56000 ppm Fresh water	Fish - Gambusia affinis – Adult	96 hours
Calcium Carbonate	Chronic NOEC 61 mg/g Fresh water	Fish - Oncorhynchus mykiss Juvenile (Fledgling, Hatchling, Weanling)	28 days
4-Nonylphenol	Acute EC50 0.03 mg/l Marine water	Algae – Skeletonema costatum	72 hours
	Acute EC50 0.027 mg/l Marine water	Algae – Skeletonema costatum	96 hours
	Acute EC50 137 ug/l Marine water	Crustaceans – Eohaustorius estuaries – Adult	48 hours
	Acute LC50 17 ug/l Marine water	Fish – Pleuronectes americanus – Larvae	96 hours
	Chronic EC10 0.012 mg/l Marine water	Algae – Skeletonema costatum	96 hours
	Chronic NOEC 5 ug/l Fresh water	Crustaceans – Gammarus fossarum – Adult	21 days
	Chronic NOEC 7.4 ug/l Fresh water	Fish – Pimephales promelas - Embryo	33 days

Persistence and degradability

There is no data available.

Bioaccumulative potential

4-Nonylphenol – BCF 740 Potential-high

Mobility in soil

Not available

Other adverse effects

No known significant effects or critical hazards.

SECTION 13
Disposal Considerations

Disposal of the product

This product contains a Significant New Use Rule (SNUR) Chemical. Do not allow this product to enter drains, sewers, wastewater treatment systems, groundwater, streams, lakes or ponds. See Environmental Data Sheet (EDS) for additional details.

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should 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.

Disposal of contaminated packaging
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 empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Do not reuse container.

Sewage disposal
Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14
Transport Information

	DOT Classification	TDG Classification	Mexico Classification	IATA	IMDG
UN number	Not regulated	Not regulated	Not regulated	UN3082	UN3082
UN proper shipping name	-	-	-	Environmentally Hazardous Substance, Liquid, N.O.S. (Epoxy Polymer)	Environmentally Hazardous Substance, Liquid, N.O.S. (Epoxy Polymer) Marine pollutant (Epoxy Polymer)
Transport hazard class(es)	-	-	-		
Packing group	-	-	-	III	III
Environmental hazards	No	No	No	Yes	Yes
Additional information	-	-	-	This product is not regulated as a dangerous good when transported in sizes of =<5 L or =<5 kg, provided the packaging meet the general provisions of 5.0.5.4.1.	This product is not regulated as a dangerous good when transported in sizes of =<5 L or =<5 kg, provided the packaging meet the general provisions of

				5.0.2.6.1.1 and 5.0.2.8.	4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. **Emergency Schedules** F-A, S-F

Special precautions for user :
Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (sea, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport. People loading and unloading dangerous goods must be trained on all of the risks deriving from the substances and on all actions in case of emergency situations.

Transport in bulk according to Annex II of MARPOL and IBC Code :
Not available

Proper shipping name : Not available.
Ship type : Not available.
Pollution category : Not available.

SECTION 15
Regulatory Information

Safety, health and environmental regulations specific for the product in question

U.S. Federal regulations
TSCA 5(a) final significant new use rules: 4-Nonylphenol
This product contains a Significant New Use Rule (SNUR) Chemical. Do not allow this product to enter drains, sewers, wastewater treatment systems, groundwater, streams, lakes or ponds. See Environmental Data Sheet (EDS) for additional details.

SARA 313
SARA 313 (40 CFR 372.45) supplier notification can be found on the Environmental Data Sheet.

California Prop. 65
WARNING: This product contains a chemical known to the State of California to cause cancer.

International regulations

Australia inventory (AICS):
Not determined

China inventory (IECSC):
Not determined

Japan inventory (ENCS):
Not determined

Japan inventory (ISHL):
Not determined

Korea inventory (KECI):
Not determined

New Zealand inventory of chemicals (NZIoC):
Not determined

Philippines inventory (PICCS):
Not determined

Taiwan chemical substances inventory (TCSI):
Not determined

Thailand inventory:
Not determined

Turkey inventory:
Not determined

Vietnam inventory:
Not determined

HMIS Rating

60 Minute Epoxy Steel Hardener	
HEALTH	2
FLAMMABILITY	1
PHYSICAL HAZARD	0
PERSONAL PROTECTION	B

NFPA Rating

SECTION 16
Other Information

We believe all information given is accurate. It is offered in good faith but without guarantee. Since conditions of use are beyond our control, user assumes all responsibility and risk.

The supplier disclaims all expressed or implied warranties of merchantability or fitness for a specific use, with respect to the product or the information provided herein, except for conformation to contracted specifications. All information appearing herein is based upon data obtained from manufacturers and/or recognized technical sources. While the information is believed to be accurate, we make no representations as to its accuracy or sufficiency. Conditions of use are beyond our control, and therefore users are responsible for verifying the data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product. Users also assume all risks in regards to the publication or use of, or reliance upon, information contained herein. This information relates only to the product designated herein, and does not relate to its use in combination with any other material or process.

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