

PRODUCT NAME: ABRO Epoxy Steel Adhesive (one hour)
(Hardener)
PRODUCT NUMBER/SIZE: ES-506 / 2 oz.

Revision Date: 04/29/2019

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
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. 2

Label Pictogram(s):



Signal Word: WARNING

Hazard Phrases: Causes skin irritation. Causes serious eye irritation

Precautionary Phrases: Wash hands thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.

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 None known.

SECTION 3 Composition/Information on Ingredients

**Mixtures:
Hazardous components**

Component Concentration	
2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL (CAS no.: 90-72-2; EC no.: 202-013-9; Index no.: 603-069-00-0) >= 5 - <= 15 % (weight) CLASSIFICATIONS: Acute toxicity (chapter 3.1), Cat. 4; Serious eye damage/eye irritation (chapter 3.3), Cat. 2; Skin corrosion/irritation (chapter 3.2), Cat. 2. HAZARDS: H302 - Harmful if swallowed; H315 - Causes skin irritation; H319 - Causes serious eye irritation.	>= 5 - <= 15 %
Calcium carbonate (Natural) (CAS no.: 1317-65-3) CLASSIFICATIONS: No data available. HAZARDS: No data available.	>= 5 - <= 25 %
nonylphenol (CAS no.: 25154-52-3; EC no.: 246-672-0; Index no.: 601-053-00-8) CLASSIFICATIONS: Toxic to reproduction (chapter 3.7), Cat. 2; Acute toxicity (chapter 3.1), Cat. 4; Skin corrosion/irritation (chapter 3.2), Cat. 1B; Hazardous to the aquatic environment, short-term (acute) (chapter 4.1), Cat. 1; Hazardous to the aquatic environment, long-term (chronic) (chapter 4.1), Cat. 1. HAZARDS: H302 - Harmful if swallowed; H314 - Causes severe skin burns and eye damage; H361fd - ; H400 - Very toxic to aquatic life; H410 - Very toxic to aquatic life with long lasting effects.	>= 3 - <= 13 %
Barium sulfate (CAS no.: 7727-43-7) CLASSIFICATIONS: No data available. HAZARDS: No data available.	>= 10 - <= 35 %
TALC powder (CAS no.: 14807-96-6) CLASSIFICATIONS: No data available. HAZARDS: No data available.	>= 10 - <= 35 %
Fatty acids, C18-unsatd, dimers, polymers with tall-oil fatty acids and triethylenetetramine (CAS no.: 68082-29-1) CLASSIFICATIONS: No data available. HAZARDS: No data available.	>= 20 - <= 50 %

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 20 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 20 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

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.

SECTION 5
Fire Fighting Measures

Suitable Extinguishing Media:

Carbon dioxide, dry chemical, foam

Specific hazards arising from the chemical

Not available

Special protective actions for fire-fighters

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

Further Information:

Hazardous combustion products: May include and are not limited to: Oxides of carbon. Oxides of nitrogen. Oxides of Sulphur.

Explosion data:

Sensitivity to mechanical impact: Not available

Sensitivity to static discharge: Not available

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.

SECTION 7 Handling and Storage

Precautions for Safe Handling

Precautions for safe handling:

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 a tightly closed container in a dry, cool, well-ventilated place. Keep away from incompatible materials such as strong oxidizing agents, peroxides, acids, sodium hypochlorite, calcium hypochlorite.

SECTION 8 Exposure Controls/Personal Protection

Control parameters

CAS: (not specified)
Soapstone

Cal/OSHA: See Annotated Z-3 PEL inhalation; NIOSH: See Annotated Z-3 REL inhalation;
OSHA: See Annotated Z-3 ppm PEL inhalation; See Annotated Z-3 mg/m3 PEL inhalation

CAS: 1317-65-3

Calcium Carbonate

Cal/OSHA: see PNOR PEL inhalation

Calcium Carbonate, Respirable fraction

Cal/OSHA: 5 mg/m3 PEL inhalation; NIOSH: 5 mg/m3 REL inhalation; OSHA: 5 mg/m3 PEL inhalation

Calcium Carbonate, Total dust

Cal/OSHA: 10 mg/m3 PEL inhalation; NIOSH: 10 mg/m3 REL inhalation; OSHA: 15 mg/m3 PEL inhalation

Limestone

Cal/OSHA: see PNOR PEL inhalation

Limestone, Respirable fraction

Cal/OSHA: 5 mg/m3 PEL inhalation; NIOSH: 5 mg/m3 REL inhalation; OSHA: 5 mg/m3 PEL inhalation

Limestone, Total dust

Cal/OSHA: 10 mg/m3 PEL inhalation; NIOSH: 10 mg/m3 REL inhalation; OSHA: 15 mg/m3 PEL inhalation

Marble

Cal/OSHA: See PNOR PEL inhalation

Marble, Respirable fraction

Cal/OSHA: 5 mg/m3 PEL inhalation; NIOSH: 5 mg/m3 REL inhalation; OSHA: 5 mg/m3 PEL inhalation

Marble, Total dust

Cal/OSHA: 10 mg/m3 PEL inhalation; NIOSH: 10 mg/m3 REL inhalation; OSHA: 15 mg/m3 PEL inhalation

CAS: 14807-96-6

Silicates (less than 1% crystalline silica), Talc (containing no asbestos), respirable dust

Cal/OSHA: See Annotated Z-3 PEL inhalation; NIOSH: See Annotated Z-3 REL inhalation;

OSHA: See Annotated Z-3 ppm PEL inhalation; See Annotated Z-3 mg/m3 PEL inhalation

CAS: 7727-43-7

Barium sulfate

Cal/OSHA: see PNOR PEL inhalation

Barium sulfate, Respirable fraction

Cal/OSHA: 5 mg/m3 PEL inhalation; NIOSH: 5 mg/m3 REL inhalation; OSHA: 5 mg/m3 PEL inhalation

Barium sulfate, Total dust

Cal/OSHA: 10 mg/m3 PEL inhalation; NIOSH: 10 mg/m3 REL inhalation; OSHA: 15 mg/m3 PEL inhalation

Appropriate engineering controls

General ventilation normally adequate. Showers. Eye wash Stations.

Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Safety glasses with side shields or goggles.

Skin protection

Protective gloves and clothing.

Body protection

As required by employer code

General hygiene considerations: Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.

Respiratory protection

Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.

SECTION 9
Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance/form (physical state, color, etc.)	Beige colored liquid
Odor	mild odor
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: >93.3°C (>199.9°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	1.6 - 1.8
Solubility(ies)	Not available
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available
Explosive properties	Not available
Oxidizing properties	Not available

Other safety information

VOC % content <1%

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

Excessive heat

Incompatible materials

Strong oxidizing agents, peroxides, acids, sodium hypochlorite, calcium hypochlorite.

Hazardous decomposition products

Carbon oxides. Nitrogen oxides. Oxides of Sulphur

SECTION 11
Toxicological Information

Information on toxicological effects

Acute toxicity

2,4,6-Tris(dimethylaminomethyl) phenol: LD50 Dermal Rat 1280 mg/kg - LD50 Oral Rat 1200 mg/kg

Ingestion: Irritating to mouth, throat and stomach.

Skin corrosion/irritation

2,4,6-Tris(dimethylaminomethyl) phenol
Skin - Mild irritant Rat - 0.025 mL -
Skin - Severe irritant Rat - 0.25 mL -
Skin - Severe irritant Rabbit - 24 hours 2 mg

Serious eye damage/irritation

Eyes - Severe irritant Rabbit - 24 hours 50 µg

Respiratory or skin sensitization

Inhalation: Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

Germ cell mutagenicity

There is no data available.

Carcinogenicity

There is no data available.

Reproductive toxicity

There is no data available.

STOT-single exposure

Eyes, Respiratory system, skin.

STOT-repeated exposure

Eyes, Respiratory system, skin.

Aspiration hazard

There is no data available.

Additional information

Numerical measures of toxicity - Acute Toxicity estimates

Oral ATEmix = 1230 mg/kg
Dermal ATEmix = 2000 mg/kg
Inhalation ATEmix = 1.5 mg/l

SECTION 12 Ecological Information

Toxicity

There is no data available.

Persistence and degradability

There is no data available.

Bioaccumulative potential

Low

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

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

SECTION 15 Regulatory Information

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

Pennsylvania Right To Know Components

Chemical name: Phenol, nonyl-
CAS number: 25154-52-3

Pennsylvania Right To Know Components

Chemical name: Barium sulfate
CAS number: 7727-43-7

Pennsylvania Right To Know Components

Chemical name: Talc
CAS number: 14807-96-6

New Jersey Right To Know Components

Common name: BARIUM SULFATE
CAS number: 7727-43-7

New Jersey Right To Know Components

Common name: TALC (NOT CONTAINING ASBESTOS FIBERS)
CAS number: 14807-96-6

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

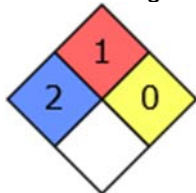
SARA 302/304: No products were found
SARA 304 RQ: Not applicable
SARA 311/312: Immediate (acute) health hazard
Composition/Information on ingredients: 2,4,6-Tris(dimethylaminomethyl)phenol 5-15%,
Immediate (acute) health hazard

CALIFORNIA PROP. 65: No products were found

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)
(Resin)
PRODUCT NUMBER/SIZE: ES-506 / 2 oz.

Revision Date: 04/29/2019

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
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. 2

Label Pictogram(s):



Signal Word: WARNING

Hazard Phrases: Causes skin irritation. Causes serious eye irritation

Precautionary Phrases: Wash hands thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.

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

None known.

**SECTION 3
Composition/Information on Ingredients**

**Mixtures:
Hazardous components**

Component Concentration	
Calcium carbonate (Natural) (CAS no.: 1317-65-3) (Weight)	>= 5 - <= 25 %
CLASSIFICATIONS: No data available. HAZARDS: No data available.	
TALC powder (CAS no.: 14807-96-6) % (Weight)	>= 10 - <= 35
CLASSIFICATIONS: No data available. HAZARDS: No data available.	
EPOXYRESIN, reaction product: BISPHENOL-A(EPICHLOROHYDRIN) (CAS no.: 25068-38-6; EC no.: 500-033-5; Index no.: 603-074-00-8) % (Weight)	>= 25 - <= 45
CLASSIFICATIONS: Eye damage/irritation (chapter 3.3), Cat. 2; Skin corrosion/irritation (chapter 3.2), Cat. 2; Sensitization, skin (chapter 3.4), Cat. 1; Hazardous to the aquatic environment - long-term hazard (chapter 4.1), Cat. 2. HAZARDS: H315 - Causes skin irritation; H317 - May cause an allergic skin reaction; H319 - Causes serious eye irritation; H411 - Toxic to aquatic life with long lasting effects.	
Phenol, 4,4'-methylenebis- (CAS no.: 620-92-8) % (Weight)	>= 10 - <= 35
CLASSIFICATIONS: No data available. HAZARDS: No data available.	
IRON powder- Flammable (CAS no.: 7439-89-6) (Weight)	>= 5 - <= 15 %
CLASSIFICATIONS: No data available. HAZARDS: No data available.	
Iron oxide (Fe3O4) (CAS no.: 1317-61-9) % (Weight)	>= 0.1 - <= 3
CLASSIFICATIONS: No data available. HAZARDS: No data available.	
Distillates (petroleum), hydrotreated light (CAS no.: 64742-47-8) % (Weight)	>= 0.1 - <= 1
CLASSIFICATIONS: No data available. HAZARDS: No data available.	

**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 20 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 20 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

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.

**SECTION 5
Fire Fighting Measures**

Suitable Extinguishing Media:

Carbon dioxide, dry chemical, foam

Specific hazards arising from the chemical

Not available

Special protective actions for fire-fighters

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

Further Information:

Hazardous combustion products: May include and are not limited to: Oxides of carbon. Oxides of nitrogen. Oxides of Sulphur.

Explosion data:

Sensitivity to mechanical impact: Not available

Sensitivity to static discharge: Not available

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.

SECTION 7 Handling and Storage

Precautions for Safe Handling

Precautions for safe handling:

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 a tightly closed container in a dry, cool, well-ventilated place. Keep away from incompatible materials such as strong oxidizing agents, bases, acids, amines.

SECTION 8 Exposure Controls/Personal Protection

Control parameters

1. Calcium Carbonate (CAS: 1317-65-3)

PEL (Inhalation): see PNOR (Cal/OSHA)

OSHA Annotated Table Z-1, www.osha.gov

2. Calcium Carbonate, Total dust (CAS: 1317-65-3)

PEL (Inhalation): 15 mg/m³ (OSHA)
OSHA Annotated Table Z-1, www.osha.gov

3. Calcium Carbonate, Total dust (CAS: 1317-65-3)

PEL (Inhalation): 10 mg/m³ (Cal/OSHA/NIOSH)
OSHA Annotated Table Z-1, www.osha.gov

4. Calcium Carbonate, Respirable fraction (CAS: 1317-65-3)

PEL (Inhalation): 5 mg/m³ (Cal/OSHA/NIOSH)
OSHA Annotated Table Z-1, www.osha.gov

5. Limestone (CAS: 1317-65-3)

PEL (Inhalation): see PNOR (Cal/OSHA)
OSHA Annotated Table Z-1, www.osha.gov

6. Limestone, Total dust (CAS: 1317-65-3)

PEL (Inhalation): 15 mg/m³ (OSHA)
OSHA Annotated Table Z-1, www.osha.gov

10. Limestone, Total dust (CAS: 1317-65-3)

PEL (Inhalation): 10 mg/m³ (Cal/OSHA/NIOSH)
OSHA Annotated Table Z-1, www.osha.gov

11. Limestone, Respirable fraction (CAS: 1317-65-3)

PEL (Inhalation): 5 mg/m³ (Cal/OSHA/NIOSH)
OSHA Annotated Table Z-1, www.osha.gov

12. Marble (CAS: 1317-65-3)

PEL (Inhalation): See PNOR (Cal/OSHA)
OSHA Annotated Table Z-1, www.osha.gov

13. Marble, Total dust (CAS: 1317-65-3)

PEL (Inhalation): 15 mg/m³ (OSHA)
OSHA Annotated Table Z-1, www.osha.gov

14. Marble, Total dust (CAS: 1317-65-3)

PEL (Inhalation): 10 mg/m³ (Cal/OSHA/NIOSH)
OSHA Annotated Table Z-1, www.osha.gov

15. Marble, Respirable fraction (CAS: 1317-65-3)

PEL (Inhalation): 5 mg/m³ (Cal/OSHA/NIOSH)
OSHA Annotated Table Z-1, www.osha.gov

16. Silicates (less than 1% crystalline silica), Talc (containing no asbestos), respirable dust (CAS: 14807-96-6)

PEL (Inhalation): See Annotated Z-3 ppm (OSHA)
OSHA Annotated Table Z-1, www.osha.gov

17. Silicates (less than 1% crystalline silica), Talc (containing no asbestos), respirable dust (CAS: 14807-96-6)

PEL (Inhalation): See Annotated Z-3 mg/m³ (OSHA)
OSHA Annotated Table Z-1, www.osha.gov

18. Silicates (less than 1% crystalline silica), Talc (containing no asbestos), respirable dust (CAS: 14807-96-6)

PEL (Inhalation): See Annotated Z-3 (Cal/OSHA/NIOSH)
OSHA Annotated Table Z-1, www.osha.gov

19. Soapstone

PEL (Inhalation): See Annotated Z-3 ppm (OSHA)
OSHA Annotated Table Z-1, www.osha.gov

20. Soapstone

PEL (Inhalation): See Annotated Z-3 mg/m³ (OSHA)
OSHA Annotated Table Z-1, www.osha.gov

21. Soapstone

PEL (Inhalation): See Annotated Z-3 (Cal/OSHA/NIOSH)
OSHA Annotated Table Z-1, www.osha.gov

Appropriate engineering controls

General ventilation normally adequate. Showers. Eye wash Stations.

Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Safety glasses with side shields or goggles.

Skin protection

Protective gloves and clothing.

Body protection

As required by employer code

General hygiene considerations: Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.

Respiratory protection

Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.

**SECTION 9
Physical and Chemical Properties**

Information on basic physical and chemical properties

Appearance/form (physical state, color, etc.)	Dark brown colored liquid
Odor	Mild odor
Odor threshold	Not available
pH	Not available
Melting point/freezing point	Not available
Initial boiling point and boiling range	> 232°C (>450°F)
Flash point	Closed cup: >93.3°C (>199.9°F) [Pensky-Martens.
Evaporation rate	< 1
Flammability (solid, gas)	Not available
Upper/lower flammability limits	Not applicable
Upper/lower explosive limits	Not applicable
Vapor pressure	Not available
Vapor density	> 1
Relative density	1.5 - 1.7
Solubility(ies)	Not available
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available
Explosive properties	Not available

Oxidizing properties

Not available

Other safety information

VOC % content <1%

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

Excessive heat

Incompatible materials

Strong oxidizing agents, bases, acids, amines

Hazardous decomposition products

Carbon oxides.

SECTION 11 Toxicological Information

Information on toxicological effects

Acute toxicity

Ingestion: Irritating to mouth, throat and stomach.

Bisphenol A (25068-38-6) Oral LD50 = 11400 mg/kg (Rat)

Iron (7439-89-6) Oral LD50 = 984 mg/kg (Rat)

Skin corrosion/irritation

Skin Contact: Causes skin irritation.

Serious eye damage/irritation

Eye Contact: Causes serious eye irritation

Respiratory or skin sensitization

Inhalation: Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

Germ cell mutagenicity

There is no data available.

Carcinogenicity

There is no data available.

Reproductive toxicity

There is no data available.

STOT-single exposure

Eyes, Respiratory system, skin.

STOT-repeated exposure

Eyes, Respiratory system, skin.

Aspiration hazard

There is no data available.

Additional information

Numerical measures of toxicity - Acute Toxicity estimates

Oral ATEmix = 3544 mg/kg

Dermal ATEmix = 42800 mg/kg

Inhalation ATEmix = 32.1 mg/l

SECTION 12 Ecological Information

Toxicity

There is no data available.

Persistence and degradability

There is no data available.

Bioaccumulative potential

Low

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 Not regulated as dangerous goods.
IATA Not regulated as dangerous goods.
IMDG Not regulated as dangerous goods.

SECTION 15
Regulatory Information

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

New Jersey Right To Know Components

Common name: TALC (NOT CONTAINING ASBESTOS FIBERS)
 CAS number: 14807-96-6

Pennsylvania Right To Know Components

Chemical name: Talc
 CAS number: 14807-96-6

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

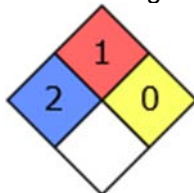
SARA 302/304: No products were found
 SARA 304 RQ: Not applicable
 SARA 311/312: Immediate (acute) health hazard
 Composition/Information on ingredients: 2,4,6-Tris(dimethylaminomethyl)phenol 5-15%,
 Immediate (acute) health hazard

CALIFORNIA PROP. 65: No products were found

HMIS Rating

60 Minutes Epoxy Steel Resin	
HEALTH	2
FLAMMABILITY	1
PHYSICAL HAZARD	0
PERSONAL PROTECTION	X

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.

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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