Company Name: Superior Stone Products, Inc.

Product Name: Superior Epoxies E-1010 - Part A - 1:1 Knife Grade

Issue Date: 12/8/05 Revision Date: 8/15/18 SDS Number: 200-25030



## Section I - Product and Company Identification

**Product Identifier:** Superior Epoxies E-1010 - Part A - 1:1 Knife Grade

Product Description/Use: Epoxy Adhesive and Filler

Product Code: 25030 Chemical Family: Epoxy Resin

Company: 24 Hour Emergency Telephone Number:

Superior Stone Products, Inc. CHEMTREC 800-424-9300

8580 Byron Commerce Drive Byron Center, MI 49546 Phone: (616) 583-0171

## Section II – Hazards Identification

GHS Hazard Classification(s):

Acute Toxicity: Category 4, Oral
Serious Eye Damage/Irritation: Category 2A
Skin Corrosion/Irritation: Category 2
Skin Sensitization: Category 1

Chronic hazards to the aquatic environment: Category 2





## Symbols: Hazard Statements:

H302: Harmful if swallowed.
H317: May cause allergic skin reaction.
H315: Causes skin irritation.
H335: May cause respiratory irritation.

H319: Causes serious eye irritation.

H411: Toxic to aquatic life with long lasting effects.

Signal Word(s): Warning

**Precautionary Statements:** 

P201: Obtain special instruction before use.

P202: Do not handle until all safety precautions have P273

been read and understood.

P260: Do not breathe dust/fume/gas/mist/vapor/spray.

P264: Wash skin thoroughly after handling.

P270: Do not eat, drink or smoke when using this

product.

Hazards not otherwise classified: None known.

P271: Use only outdoors or in a well-ventilated area. P272: Contaminated work clothing should not be

allowed out of the workplace.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye

protection/face protection.

Company Name: Superior Stone Products, Inc.

**Product Name: Superior Epoxies E-1010 - Part A - 1:1 Knife Grade** 

Issue Date: 12/8/05 Revision Date: 8/15/18 SDS Number: 200-25030



# Section III – Composition/Information on Ingredients

Substance/Mixture: Mixture

<u>Ingredient</u>	Synonym(s)	% (By Weight)	CAS#	EINECS Nc.
Bisphenol A/Epicholorhydrin	N/A	80-90%	25068-38-6	500-033-5
Based Epoxy Resin				
Propylene Carbonate	4-Methyl-1,3-dioxolan-2-one; Cyclic propylene carbonate; Carbonic acid propylene ester; Cyclic 1,2-propylene carbonate; Propylene glycol cyclic carbonate; 1,2-Propanediol carbonate; 4-Methyl-2-oxo-1,3-dioxolane	<5%	108-32-7	203-572-1
Trimethylolpropane	TMPTA	<5%	15625-89-5	293-701-3
Triacrylate				
Hydrophobic Amorphous	Hydrophobized Dispersed Silica, Synthetic	<10%	67762-90-7	N/A
Fumed Silica	Silica, X-ray Amorphous Silicon Dioxide			

### Section IV – First Aid Measures

If Swallowed: Rinse mouth. DO NOT INDUCE VOMITING. Call a POISON CENTER or doctor if you feel unwell.

**Skin Contact:** Remove immediately all contaminated clothing. Rinse skin with water.

**If Inhaled:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER OR doctor/physician.

**Eyes:** Flush with copious amounts of water for at least 10 minutes, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Seek immediate medical aid.

## **Section V - Fire Fighting Measures**

**Suitable Extinguishing Media:** Water Spray, foam, dry chemical, carbon dioxide or any extinguishing agent suitable for surrounding fire.

Unsuitable Extinguishing Media: None known.

**Special Fire Fighting Procedures:** Firefighters and others exposed to vapors or products of combustion should wear self-contained breathing apparatus and full protective clothing. Equipment should be thoroughly decontaminated after use. **Hazardous Products of Combustion:** Decomposition products may include the following material: carbon oxides, acids aldehydes, and other organic compounds.

### Section VI - Accidental Release Measures

### 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. Do not touch or walk through spilled material. Provide adequate ventilation.

**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. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. See also the information for non-emergency personnel.

## 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

Company Name: Superior Stone Products, Inc.

**Product Name: Superior Epoxies E-1010 - Part A - 1:1 Knife Grade** 

Issue Date: 12/8/05 Revision Date: 8/15/18 SDS Number: 200-25030



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.

## **Section VII - Handling and Storage**

Precautions for Safe Handling

**Protective Measures:** Put on appropriate personal protection equipment (see Section 8). 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. Do not breath vapor or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined space unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible materials, kept tightly closed when not in use. Store and use away from heat, sparks open flame or any other ignition source. Empty containers retain product residue and can be hazardous. Do no reuse container.

Advice on General Occupational Health: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for Safe Storage, Including and Incompatibles: Store in accordance with local regulations. Store in a segregated and approved area. 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. Segregate from oxidizing materials. 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 no store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Refer to the product label and/or technical data sheet for further information. Do not store in temperatures greater than 100°F.

Shelf Life: One (1) year when stored at room temperatures.

## **Section VIII - Exposure Controls/Personal Protection**

Likely Routes of Exposure: Inhalation, Dermal, Ingestion.

**Control Parameters** 

Occupational exposure Limits:

<u>Ingredient Name</u> <u>Exposure Limits</u>
Trimethylopropane Triacrylate **AIHA WEEL** 

TWA: 85 mg/m<sup>3</sup> - 8 hours

**Engineering Controls:** Use only with adequate ventilation to keep the airborne concentrations of this material below the recommended exposure standard. Engineering controls also need to keep gas vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

**Environmental Exposure Controls:** Emissions from ventilation of 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. 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, gasses or dusts. If contact is possible, the

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**Product Name: Superior Epoxies E-1010 - Part A - 1:1 Knife Grade** 

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following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Hand Protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body Protection: 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. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

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: Use a properly fitted, air-purifying of air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

# Section IX – Physical and Chemical Properties

Physical State: Viscous Liquid

Color: Clear Odor: Odorless

Odor Threshold: No Data

pH: 6-8

Melting Point: 3.2°F/-16.0°C
Boiling Point: 396.3°F/<202.4°C
Flash Point: 438.8°F/266.0°C
Burning Time: Not Available
Burning Rate: Not Available
Evaporation Rate: Not Available
Flammability (solid, gas): Not Available

Lower and Upper Explosive (Flammable) Limits: Not Available

Vapor Pressure: 4.6x10<sup>-8</sup> Pa @ 77°F/25°C Vapor Density: Not Available (Air = 1) Relative Density: 1.17 (Water = 1) Solubility: 6.9 mg/l (at 20°C) - Insoluble

Partition Coefficient: n-Octanol/water : Log P = 3.242 + /- 0.324 (at 25°C and pH 7.1)

Log Kow = 2.821

**Auto-Ignition temperature:** Not Available **Decomposition Temperature:** Not Available

**SADT:** Not Available

Viscosity: 11,500 - 13,500cps (25°C)

Molecular Weight: 368-400

## **Section X - Stability and Reactivity**

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

Chemical Stability: Material is stable at normal temperature and presure.

**Conditions to avoid:** Avoid excessive heating. Avoid contact with strong oxidizing agent, heat, spark and flames.

**Incompatibility (materials to avoid):** Strong acids, amines, bases, and oxidizing agents. **Hazardous Decomposition:** May product hazardous carbon oxides, chloro hydrogen.

Company Name: Superior Stone Products, Inc.

**Product Name: Superior Epoxies E-1010 - Part A - 1:1 Knife Grade** 

Issue Date: 12/8/05 Revision Date: 8/15/18 SDS Number: 200-25030



# **Section XI - Toxicological Information**

**Acute Toxicity:** 

Product/Ingredient Name Result **Species** Dose **Exposure** 11,400 mg/kg Bisphenol LD50 Oral Rat A/Epicholorhydrin Based LD50 Dermal Rat 2,000 mg/kg Epoxy Resin Tremethylolpropane LD50 Oral Rat 5,190 mg/kg Triacrylate LD50 Dermal Rabbit 5,170 mg/kg

Irritation/Corrosion:

Product/Ingredient Name Result **Species** Score Dose Observation Bisphenol Skin - Erythmea/Eschar 404 Acute Rabbit 1.5-2 A/Epicholorhydrin Based Dermal Irritation/Corrosion **Epoxy Resin** Skin - Edema 404 Acute Dermal 1.0-1.5 Rabbit Irritation/Corrosion Eyes - 405 Acute Eye Rabbit 0 Irritation/Corrosion Eyes - Redness of the Conjuntiva Rabbit 0.7 Skin - Mild Irritant Rabbit 24 hours Skin - Severe Irritant Rabbit 24 hours Eyes - Mild Irritant Rabbit

Sensitization: Not available Mutagenicity: Not available Carcinogenicity: Not available

**Reproductive Toxicity:** No adverse reproductive effects were observed in an O.E.C.D test guideline no 416 GLP twogeneration rat oral gavage study conducted up to a high dose level of 750 mg/kg/day that resulted in adult body weight decrements.

Teratogenicity: Not available

Specific Target Organ Toxicity (Single Exposure):

Product/Ingredient Name Category Route of Exposure Target Organs

Bisphenol Category 3 Inhalation Respiratory Tract Irritation

A/Epicholorhydrin Based

**Epoxy Resin** 

Trimethylolpropane Category 3 Inhalation Respiratory Tract Irritation

Triacrylate

Specific Target Organ Toxicity (Repeated Exposure):

<u>Product/Ingredient Name</u> <u>Category</u> <u>Route of Exposure</u> <u>Target Organs</u>

Trimethylolpropane Category 1 Dermal Skin

Triacrylate

Aspiration Hazard: Not available

Likely Routes of Exposure: Inhalation, Dermal, Ingestion.

Company Name: Superior Stone Products, Inc.

Product Name: Superior Epoxies E-1010 - Part A - 1:1 Knife Grade

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#### Potential Acute Health Effects:

Eye Contact: Causes serious eye irritation. Inhalation: May cause respiratory irritation.

Skin Contact: Causes skin irritation. May cause an alergic skin reaction.

Ingestion: Irritating to mouth, throat and stomach.

## Symptoms Related to the Physical, Chemical and Toxicological Characteristics:

Eye Contact: Adverse symptoms may include the following - Pain or Irritation. Watering. Redness. Inhalation: Adverse symptoms may include the following - Respiratory tract irritation, coughing.

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 Expousres:

**Short Term Exposures:** 

Potential Immediate Effects: Not available. Potential Delayed Effects: Not available.

Long Term Exposures:

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: 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: Not available.

## Section XII - Ecological Information

Toxicity:

Product/Ingredient Name **Exposure Species** Bisphenol Acute LC50 1.3 mg/l - 203 Fish, Fish - Fish 96 hours **Acute Toxicity Test** 

A/Epicholorhydrin Based

**Epoxy Resin** 

Acute EC50 2.1 mg/l - 202 Daphnia Aguatic invertebrates. Water Flea. 48 hours

sp. Acute Immobilization Test and

Reproduction Test.

Acute NOEC 0.3 mg/l - 211 Aquatic invertebrates. Water Flea 21 days

Daphnia Magna Reproduction Test

Acute LC50 11 mg/l Aquatic plants - Algae 72 hours

Persistence and Degradability: Not Available

**Bioaccumulative Potential:** 

Product/Ingredient Name LogPow Potential Bisphenol 2.64-3.78 3-31 31.00 low

A/Epicholorhydrin Based

**Epoxy Resin** 

Company Name: Superior Stone Products, Inc.

**Product Name: Superior Epoxies E-1010 - Part A - 1:1 Knife Grade** 

Issue Date: 12/8/05 Revision Date: 8/15/18 SDS Number: 200-25030



### Mobility in Soil:

Soil/water Partition Coefficient (Koc): Not available

Other Adverse Effects: No known significant effects or critical hazards.

## **Section XIII - Disposal Considerations**

The information in this section contains generic advice and guidance. The list of identified uses in Section 1 should be consulted for any available use-specific information.

**Disposal Methods:** The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. Disposal of surplus and non-recyclable products via a licensed waste disposal contractor. 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. Avoid disposal. Attempt to use product completely in accordance with intended use. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is no feasible.

**Special Precautions:** 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 no cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soul, water ways, drains and sewers.

# **Section XIV - Transportation Information**

DOT (DEPARTMENT OF TRANSPORTATION)

Not Regulated

Please refer to DOT regulations for more info

Canada (TDG)

Not Regulated

Please refer to TDG Regulations for more info

#### International Air Transport Association (IATA)

Technical Name: Environmentally Hazardous Substance, Liquid, N.O.S. (Liquid Epoxy Resin)

Hazard Class: 9

NA/UN Number: 3082 Packing Group: III ERG Code: 9L

Marine Pollutant: Yes

Please refer to IATA regulations for more info.

#### International Maratime Organization (IMO)

Technical Name: Environmentally Hazardous Substance, Liquid, N.O.S. (Liquid Epoxy Resin)

Hazard Class: 9 NA/UN Number: 3082 Packing Group: III EmS: F-A, S-F Marine Pollutant: Yes

Please refer to IMO regulations for more info.

**Special Precautions for User:** Transport within users premises: Always transport in closed containers that are upright and secure. Ensure that persons transporting the products know what to do in the event of an accident or spillage.

## **Section XV - Regulatory Information**

**United States Federal Regulations:** 

### Sara Title III - Section 311/312

CriteriaYes/NoImmediate (Acute) Health Effects:YesChronic (Delayed) Health Effects:YesFire Hazard:NoSudden Release of Pressure Hazard:NoReactivity:No

Company Name: Superior Stone Products, Inc.

**Product Name: Superior Epoxies E-1010 - Part A - 1:1 Knife Grade** 

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### **State Regulations:**

**California Prop, 65: Warning:** This product is not known to contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

#### Canada:

Canadian WHMIS Classification: D2B

Ingredient Disclosure List: Propylene Carbonate (108-32-7)

### **Section XVI - Other Information**

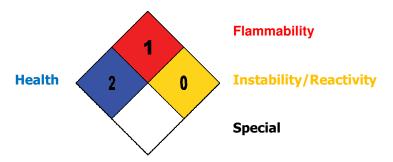
### Hazardous Material Information System (United States):

Health 2 Flammability 1 Physical Hazards 0

Caution: HMIS® rating are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® rating are not required on SDSs under 29 CFR 19101200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J.J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

### National Fire Protection Association (United States):



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Company Name: Superior Stone Products, Inc.

**Product Name: Superior Epoxies E-1010 - Part A - 1:1 Knife Grade** 

Issue Date: 12/8/05 Revision Date: 8/15/18 SDS Number: 200-25030



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PRODUCT IT DESCRIBES.

Company Name: Superior Stone Products, Inc.

Product Name: E-1010 - Part B - 1:1 Knife Grade

Issue Date: 12/8/05 Revision Date: 8/15/18 SDS Number: 200-25040



# Section I – Product and Company Identification

Superior Epoxies E-1010 - Part B - 1:1 Knife Grade Product Identifier:

Product Description/Use: Epoxy Adhesive and Filler

Product Code: 25040 Chemical Family: Epoxy Resin

24 Hour Emergency Telephone Number: Company:

CHEMTREC 800-424-9300 Superior Stone Products, Inc.

8580 Byron Commerce Drive Byron Center, MI 49546 Phone: (616) 583-0171

## Section II – Hazards Identification

GHS Hazard Classification(s):

Acute Toxicity: Category 4, Dermal **Acute Toxicity:** Category 4, Inhalation Acute Toxicity: Category 4, Oral Skin Corrosion/Irritation: Category 1B **Serious Eye Damage/Irritation:** Category 1 **Skin Sensitization:** Category 1 **Reproductive Toxicity:** Category 2 **Acute Aquatic Toxicity:** Category 1

**Chronic Aquatic Toxicity:** Category 1

Specific Target Organ Toxicity - Single Exposure: Category 3



Symbols:

Signal Word(s): Warning

Hazard Statements:

H302: Harmful if swallowed.

H314: Causes severe skin burns and eve damage.

H317: May cause allergic skin reaction.

H318: Causes serious eye damage.

H330: Fatal if Inhaled

H335: May cause respiratory irritation. H361 Suspected of damaging fertility or the unborn

child.

H410: Very toxic to aquatic life with long lasting effects.

### **Precautionary Statements:**

P201: Obtain special instruction before use.

P202: Do not handle until all safety precautions have

been read and understood.

P260: Do not breathe dust/fume/gas/mist/vapor/spray.

P264: Wash skin thoroughly after handling.

P270: Do not eat, drink or smoke when using this

product.

P271: Use only outdoors or in a well-ventilated area.

P272: Contaminated work clothing should not be allowed out of the workplace.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye

protection/face protection.

P281: Use personal protective as required.

P284: Wear respiratory protection.

Hazards not otherwise classified: None known.

Company Name: Superior Stone Products, Inc.

**Product Name: E-1010 - Part B - 1:1 Knife Grade** 

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# Section III – Composition/Information on Ingredients

Substance/Mixture: Mixture

Ingredient	Synonym(s)	<u>% (By</u>	CAS#	EINECS No.
Nonylphenol	Branched p-nonylphenol, C9	<u>Weight)</u> <35%	84852-15-3	284-325-5
Aminoethylpiperazine	branched alkyl phenol 1-(2-Aminoethyl)piperazine, 1-	>40%	140-31-8	205-411-0
Hydrophobic Amorphous Fumed	Piperazineethanamine, Piperazine, 1-(2-aminoethyl)- Hydrophobized Dispersed Silica,	5-10%	67762-90-7	N/A
Silica	Synthetic Silica, X-ray Amorphous Silicon Dioxide	3-10%	07702-90-7	NA

### Section IV – First Aid Measures

**If Swallowed:** Do NOT induce vomiting. Rinse mouth with water. If a person vomits when lying on their back, place them in the recovery position. Never give anything by mouth to an unconscious person. Prevent aspiration of vomit. Turn victim's head to the side. Consult a physician.

**Skin Contact:** Remove immediately all contaminated clothing and any extra material. Rinse skin with water. Maintain continuous irrigation until medical care can be received.

**If Inhaled:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER OR doctor/physician.

**Eyes:** Flush with copious amounts of water, occasionally lifting the upper and lower eyelids until medical attention is received. Check for and remove any contact lenses. Seek immediate medical aid.

# **Section V - Fire Fighting Measures**

**Suitable Extinguishing Media:** Alcohol resistant foam, dry chemical, carbon dioxide, dry sand, limestone powder. **Unsuitable Extinguishing Media:** None known.

**Special Fire Fighting Procedures:** Firefighters and others exposed to vapors or products of combustion should wear self-contained breathing apparatus and full protective clothing. Equipment should be thoroughly decontaminated after use. Downwind personnel must be evacuated.

**Hazardous Products of Combustion:** May generate ammonia gas. May generate toxic nitrogen oxide gases. Use of water may result in the formation of very toxic aqueous solution. do not allow run-off from fire fighting to enter drain or water courses. Incomplete combustion may form carbon dioxide. Burning produces noxious and toxic fumes.

### Section VI - Accidental Release Measures

## 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. Do not touch or walk through spilled material. Provide adequate ventilation.

**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. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. See also the information for non-emergency personnel.

### 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

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Product Name: E-1010 - Part B - 1:1 Knife Grade

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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.

## **Section VII - Handling and Storage**

**Precautions for Safe Handling** 

**Protective Measures:** Put on appropriate personal protection equipment (see Section 8). 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. Do not breath vapor or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined space unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible materials, kept tightly closed when not in use. Store and use away from heat, sparks open flame or any other ignition source. Empty containers retain product residue and can be hazardous. Do no reuse container.

Advice on General Occupational Health: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for Safe Storage, Including and Incompatibles: Store in accordance with local regulations. Store in a segregated and approved area. 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. Segregate from oxidizing materials. 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 no store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Refer to the product label and/or technical data sheet for further information. Do not store in temperatures greater than 100°F.

Shelf Life: One (1) year when stored at room temperatures.

# **Section VIII - Exposure Controls/Personal Protection**

Likely Routes of Exposure: Inhalation, Dermal, Ingestion.

**Control Parameters** 

Occupational exposure Limits:

Ingredient Name Exposure Limits

N/A N/A

**Engineering Controls:** Use only with adequate ventilation to keep the airborne concentrations of this material below the recommended exposure standard. Engineering controls also need to keep gas vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

**Environmental Exposure Controls:** Emissions from ventilation of 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. 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, gasses or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

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Hand Protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body Protection: 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. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

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: Use a properly fitted, air-purifying of air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

# **Section IX – Physical and Chemical Properties**

Physical State: Paste

**Color:** Light yellow/amber (darkens with age)

**Odor:** Amine Like

**Odor Threshold:** Not Available

pH: Alkaline

Melting Point: Not Available Boiling Point: >392°F/>200°C Flash Point: 267°F/130°C Burning Time: Not Available Burning Rate: Not Available Evaporation Rate: Not Available

Flammability (solid, gas): Not Applicable

Lower and Upper Explosive (Flammable) Limits: Not Applicable

Vapor Pressure: <1 mmHg at @  $70^{\circ}F/25^{\circ}C$ Vapor Density: Not Available (Air = 1) Relative Density: 1.07 (Water = 1)

Solubility: Slightly soluble

Partition Coefficient: n-Octanol/water: Not Available.

Auto-Ignition temperature: Not Available Decomposition Temperature: Not Available

**SADT:** Not Available **Viscosity:** Not Available

# Section X - Stability and Reactivity

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

Chemical Stability: Material is stable at normal temperature and pressure.

Conditions to avoid: No data available.

**Incompatibility (materials to avoid):** Strong oxidizing agents, sodium hypochlorite, organic acids, mineral acids, materials reactive with hydroxyl compounds. nitrous acid and other nitrosating agents. CAUTION: N-Nitrosaminesm many of which are known to be potent carcinogens, may be formed when the product comes in contact with nitrous, acid, nitrites or atmospheres with high nitrous oxide concentrations. Reaction wiht peroxides may result in violent decomposition of peroxide possible creating an explosion.

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Hazardous Decomposition: Nitric acid, ammonia, nitrogen oxides (NOx) Carbon monoxide, carbon dioxide, aldehydes, flammable hydrocarbon fragments. Nitrogen oxide can react with water vapors to form corrosive nitric acid.

## **Section XI - Toxicological Information**

**Acute Toxicity:** 

Product/Ingredient NameResultSpeciesDoseExposureProduct ComponentsLD50 - Oral (estimated)Rat1,412 mg/kg-LD50 - Dermal (estimated)Rabbit>880 mg/kg-

Irritation/Corrosion:

<u>Product/Ingredient Name</u> <u>Result</u> <u>Species</u> <u>Score</u> <u>Dose</u> <u>Observation</u>

Product Components Skin - OECD 404 - Causes burns Rabbit - - - Eyes - OECD 405 - Corrosive Rabbit - - -

Sensitization: Dermal sensitization to this product has been seen in some humans. The results of a test on guinea pigs

showed components of this substance to be a weak sesitizer.

Mutagenicity: Not available Carcinogenicity: Not available Reproductive Toxicity:

Product/Ingredient Name Species Resu

Nonylphenol Rat - Oral Effect on Newborn: Growth Statistics (e.g. reduced weight gain).

Effects on Newborn: Physical.

Suspected human reproductive toxicant.

Teratogenicity: Not available

Specific Target Organ Toxicity (Single Exposure): Not available

Specific Target Organ Toxicity (Repeated Exposure):

Aspiration Hazard: Not available

Likely Routes of Exposure: Inhalation, Dermal, Ingestion.

Potential Acute Health Effects:

Eye Contact: Causes eye burns. May cause blindness.

Inhalation: Can cause severe eye, skin and respiratory tract burns. Can be highly toxic by inhalation.

Skin Contact: Toxic in contact with skin. Causes skin burns.

Ingestion: If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus

and the stomach.

### Symptoms Related to the Physical, Chemical and Toxicological Characteristics:

Repeated and/or prolonged exposure to low concentrations of vapors and/or aerosols may cause: sore throat, asthma, eye disease, kidney disorders, liver disorders, skin disorders and allergies.

## Delayed and Immediate Effects and also Chronic Effects from Short and Long Term Exposures:

### **Short Term Exposures:**

Potential Immediate Effects: Not available. Potential Delayed Effects: Not available.

Long Term Exposures:

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: 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.

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Fertility effects: No known significant effects or critical hazards.

Numerical Measures of Toxicity:

Acute Toxicity Estimates: Not available.

Additional Information- Nonylphenol: Repeated dose toxicity - Rat - male and female - No observed adverse effect level -

10 mg/kg - Lowest observed adverse effect level - 50 mg/kg.

RTECS: Not Available.

Cough, shortness of breath. headache, nausea, vomiting. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

# **Section XII - Ecological Information**

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Product/Ingredient Name Nonylphenol	Result LC50 - Flow though test - 0.209 mg/l	<u>Species</u> Fish - Lepomis macrochirus	Exposure 96 hour
	EC50 - Semi-static test - 0.0844 mg/l	Daphnia magna (Water Flea)	48 hour
	EC50 - Static test - 0.33 mg/l	Selenastrum capriconutum (green algae)	72 hour

Persistence and Degradability: Not Available

Bioaccumulative Potential:

Product/Ingredient Name LogPow BCF Potential

Nonylphenol - 740 Primephales promelas (fathead

minnow) - 28 days

Mobility in Soil:

Soil/water Partition Coefficient (Koc): Not available

Other Adverse Effects: No known significant effects or critical hazards.

## **Section XIII - Disposal Considerations**

The information in this section contains generic advice and guidance. The list of identified uses in Section 1 should be consulted for any available use-specific information.

**Disposal Methods:** The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. Disposal of surplus and non-recyclable products via a licensed waste disposal contractor. 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. Avoid disposal. Attempt to use product completely in accordance with intended use. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is no feasible.

**Special Precautions:** 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 no cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soul, water ways, drains and sewers.

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**Section XIV - Transportation Information** 

DOT (DEPARTMENT OF TRANSPORTATION) Canada (TDG)

> Technical Name: Amines, liquid, corrosive, N.O.S Technical Name: Amines, liquid, corrosive, N.O.S

(Nonyl Phenol, Heterocyclic amine (Nonyl Phenol, Heterocyclic amine.

Hazard Class: 8 Hazard Class: 8 NA/UN Number: 2735 NA/UN Number: 2735 Packing Group: II Packing Group: II Marine Pollutant: Yes Marine Pollutant: Yes

Please refer to DOT regulations for more info Please refer to TDG Regulations for more info

International Air Transport Association (IATA) International Maratime Organization (IMO)

Technical Name: Amines, liquid, corrosive, N.O.S Technical Name: Amines, liquid, corrosive, N.O.S

(Nonyl Phenol, Heterocyclic amine (Nonyl Phenol, Heterocyclic amine.

Hazard Class: 8 Hazard Class: 8 NA/UN Number: 2735 NA/UN Number: 2735 Packing Group: II Packing Group: II ERG Code: 8L EmS: F-A, S-B Marine Pollutant: Yes Marine Pollutant: Yes

Please refer to IATA regulations for more info. Please refer to IMO regulations for more info.

Special Precautions for User: Transport within users premises: Always transport in closed containers that are upright and secure. Ensure that persons transporting the products know what to do in the event of an accident or spillage.

### Section XV - Regulatory Information

**United States Federal Regulations:** 

Sara Title III - Section 311/312

Criteria Yes/No Immediate (Acute) Health Effects: Yes Chronic (Delayed) Health Effects: No Fire Hazard: No Sudden Release of Pressure Hazard: No Reactivity: No

### State Regulations:

California Prop, 65: This product is not known to contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

Pennsylvania Right to Know: The following components are listed: 4-nonylphenol, branched (84852-15-3) New Jersey Right to Know: The following components are listed: 4-nonylphenol, branched (84852-15-3)

### Canada:

Canadian WHMIS Classification:

D1, D2A, D2B, E

Canadian Disclosure List:

N-Aminoethylpiperazine (140-31-8)

Nonlyphenol (84852-15-3)

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### Section XVI - Other Information

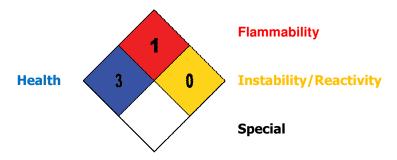
Hazardous Material Information System (United States):

Health 3 Flammability 1 Physical Hazards 0

Caution: HMIS® rating are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® rating are not required on SDSs under 29 CFR 19101200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J.J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

### National Fire Protection Association (United States):



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