

SAFETY DATA SHEET

Section 1: Manufacturer's Identification

Product Name: K-1034 HAPS FREE EPOXY REDUCER Product Code: K-1034
Manufacturer's Name: Induron Protective Coatings, LLC Emergency Phone: 1-800-424-9300
Address: 3333 Richard Arrington Blvd. N. Information Phone: (205)324-9584
Birmingham, Alabama 35234

Section 2: Composition / Information on Ingredients

GHS Ratings:

| | | |
|------------------|---|--|
| Flammable liquid | 2 | Flash point < 23°C and initial boiling point > 35°C (95°F) |
| Skin corrosive | 2 | Reversible adverse effects in dermal tissue, Draize score: >= 2.3 < 4.0 or persistent inflammation |
| Eye corrosive | 1 | Serious eye damage: Irreversible damage 21 days after exposure, Draize score: Corneal opacity >= 3, Iritis > 1.5 |
| Skin sensitizer | 1 | Skin sensitizer |

GHS Hazards

| | |
|------|-------------------------------------|
| H225 | Highly flammable |
| H315 | Causes skin irritation |
| H317 | May cause an allergic skin reaction |
| H318 | Causes serious eye damage |

GHS Precautions

| | |
|----------------|---|
| P210 | Keep away from heat/sparks/open flames/hot surfaces - No smoking. |
| P233 | Keep container tightly closed. |
| P240 | Ground/bond container and receiving equipment. |
| P241 | Use explosion-proof electrical equipment. |
| P242 | Use only non-sparking tools. |
| P243 | Take precautionary measures against static discharge. |
| P261 | Avoid breathing dust/fume/gas/mist/vapours/spray. |
| P264 | Wash equipment and contaminated skin thoroughly after handling. |
| P272 | Contaminated work clothing should not be allowed out of the workplace. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P310 | Immediately call a POISON CENTER or doctor/physician |
| P321 | Wash contaminated skin, follow Physician's instructions for treatment. |
| P362 | Take off contaminated clothing and wash before reuse |
| P363 | Wash contaminated clothing before reuse |
| P302+P352 | IF ON SKIN: Wash with soap and water |
| P303+P361+P353 | IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower |
| P305+P351+P338 | IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing |
| P332+P313 | If skin irritation occurs: Get medical advice/attention |
| P333+P313 | If skin irritation or a rash occurs: Get medical advice/attention |
| P370+P378 | In case of fire: Use CO ₂ , water spray, foam, or dry chemical to extinguish. |
| P403+P235 | Store in a well ventilated place. Keep cool |
| P501 | Dispose of contents/container in accordance to appropriate regulations and laws. |

Signal Word: Danger



Preexisting skin, eye, and respiratory disorders may be aggravated by exposure to this product. Impaired kidney and liver functions from preexisting disorders may be aggravated by exposure to this product.

Kidney damage may be evidenced by changes in urine output, urine appearance, or edema (swelling from fluid retention). Liver damage may be evidenced by loss of appetite, jaundice and sometimes pain in the upper abdomen on the right side.

Section 3: Hazards Identification

| Chemical Name | CAS number | Weight Concentration % |
|------------------|------------|------------------------|
| ISOBUTANOL | 78-83-1 | 60.00% - 70.00% |
| n-Propyl acetate | 109-60-4 | 30.00% - 40.00% |

(1) Serious eye damage: Irreversible damage 21 days after exposure, Draize score: Corneal opacity ≥ 3 , Iritis > 1.5

Section 4: First Aid Measures

INHALATION - If product solids are inhaled either as dust or in the form of a spray mist, remove the person from exposure immediately. If breathing is difficult, irregular, or has stopped, start resuscitation; call a physician. Administer oxygen if a qualified operator is available.

EYE CONTACT - In case of eye contact, flush the eyes with water for fifteen (15) minutes. If contact lenses are worn, quickly remove them, then flush the eyes with water. Have a physician examine the eyes.

SKIN CONTACT - In case of skin contact, remove contaminated clothing. Flush the skin with large amounts of water, then wash the skin with soap and water.

INGESTION - If material is ingested, seek immediate medical attention. If vomiting occurs spontaneously, keep the head below the hips to prevent aspiration of liquid into the lungs.

Notes to Physician: No data found

Section 5: Fire Fighting Measures

Flash Point: 12 C (54 F)

LEL: 1.00

UEL: 11.00

EXTINGUISHING MEDIA: Use carbon dioxide (CO₂), "alcohol" foam, dry chemical, or water spray/water fog extinguishing systems.

UNUSUAL FIRE OR EXPLOSION HAZARDS: The product vapor is heavier than air and may travel a considerable distance to a source of ignition and flashback.

HAZARDOUS COMBUSTION PRODUCTS: See section 10 for a list of hazardous decomposition products for this mixture.

FIRE FIGHTING: If evacuation of personnel is necessary, evacuate to an upwind area. Decontaminate personnel and equipment with a water wash-down after fire and smoke exposure.

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Section 6: Accidental Release Measures

SPILL AND LEAK PROCEDURES: Spill supervisor - Ensure cleanup personnel wear all appropriate Personal

Protective Equipment (PPE), including respiratory protection. Remove all ignition sources. Keep nonessential personnel away from the contaminated area.

SMALL SPILLS: Ventilate the contaminated area. Using nonsparking tools, mix the appropriate sorbent into the spilled material. Use an absorbent like sawdust for aqueous, waterborne, and solvent-borne coatings.

Collect the saturated sorbent and transfer it into a covered container. Steel containers are acceptable for all wastes except wastes which contain acid. Use suitable plastic containers for acid-bearing wastes.

Dispose of the waste in compliance with all Federal, state, regional, and local regulations.

LARGE SPILLS: Prevent this material from entering sewers and watercourses by diking or impounding the spilled material. Advise authorities if the product has entered or may enter, sewers, watercourses, or extensive land areas .

Ventilate the contaminated area. Using nonsparking tools, mix the appropriate sorbent into the spilled material. Use an absorbent like sawdust for aqueous, waterborne, and solvent-borne coatings.

Collect the saturated sorbent and transfer it into a covered container. Steel containers are acceptable for all wastes except wastes which contain acid. Use suitable plastic containers for acid-bearing wastes.

Section 7: Handling and Storage

HANDLING PRECAUTIONS: Wear all appropriate Personal Protective Equipment (PPE). Wear respiratory protection or ensure adequate ventilation at all times as vapors can accumulate in confined or poorly ventilated areas. Use the product in a manner which minimizes splashes and/or the creation of dust. Keep containers closed when not in use. Do not handle or store material near heat, sparks, open flames, or other sources of ignition. Store at room temperatures, i.e., 40 to 95 F (4 to 35 C).

STORAGE: Prevent from freezing. Do not store above 120 F (49 C).

Store only in original containers.

REGULATORY REQUIREMENTS: No data found.

Section 8: Exposure Controls / Personal Protection

| Chemical Name / CAS No. | OSHA Exposure Limits | ACGIH Exposure Limits | Other Exposure Limits |
|------------------------------|-------------------------------|-----------------------------|--|
| ISOBUTANOL 78-83-1 | 100 ppm TWA; 300 mg/m3 TWA | 50 ppm TWA | NIOSH: 50 ppm TWA; 150 mg/m3 TWA |
| n-Propyl acetate 109-60-4 | 200 ppm TWA; 840 mg/m3 TWA | 250 ppm STEL 200 ppm TWA | NIOSH: 200 ppm TWA; 840 mg/m3 TWA 250 ppm STEL; 1050 mg/m3 STEL |

ENGINEERING: Ensure processing (curing) ovens are properly vented to prevent the introduction of processing fumes into the workplace. Use explosion-proof equipment and good manufacturing practice.

VENTILATION: Use only with adequate ventilation, i.e., ventilation in compliance with occupational exposure limits.

ADMINISTRATIVE CONTROLS: No data found.

PROTECTIVE EQUIPMENT: Wear splash goggles. If extra protection is required, wear a face shield over the splash goggles. Face shields are effective only if worn in addition to splash goggles .

Wear a chemical-resistant, butyl-rubber apron and other protective clothing, as deemed appropriate, to avoid skin contact with material.

Wear chemical-resistant gloves (butyl rubber or neoprene) . Protective gloves should be inspected frequently and discarded when they exhibit cuts, tears, pinholes, or signs of excessive wear.

CONTAMINATED EQUIPMENT: Dispose of the waste in compliance with all Federal, state, regional, and local regulations.

Section 9: Physical and Chemical Properties

This mixture typically exhibits the following properties under normal circumstances:

| | |
|---|---|
| Vapor Pressure: 13.3 mmHg Vapor Density: 2.9 DENSITY 6.94 Freezing point: N/A Boiling range: 101°C Evaporation rate: N/A Flammability: N/A Partition coefficient (n-octanol/water): N/A Decomposition temperature: N/A Appearance: N/A | Odor threshold: N/A pH: N/A Melting point: N/A Solubility: N/A Flash point: 54 F, 12 C Lb VOC/Gal less water and exempt: 6.92 Explosive Limits: N/A Autoignition temperature: N/A Viscosity: N/A Odor: N/A |
|---|---|

Section 10: Stability and Reactivity

Stability:

STABLE

Components of this mixture are incompatible with the following materials:

This mixture is likely to exhibit the following combustion products:

Hazardous polymerization will not occur.

Section 11: Toxicological Information

Mixture Toxicity

Oral Toxicity LD50: 3,304mg/kg
Inhalation Toxicity LC50: 29mg/L

Routes of Entry:

Exposure to this material may affect the following organs:

Eyes Central Nervous System Skin Respiratory System

Effects of Overexposure

Carcinogenicity: The following chemicals comprise 0.1% or more of this mixture and are listed and/or classified as carcinogens or potential carcinogens by NTP, IARC, OSHA (mandatory listing), or ACGIH (optional listing).

| | | | |
|-------------------|--------------------|-----------------|--------------------------|
| <u>CAS Number</u> | <u>Description</u> | <u>% Weight</u> | <u>Carcinogen Rating</u> |
|-------------------|--------------------|-----------------|--------------------------|

Section 12: Ecological Information

Ecological information: No data found.

Component Ecotoxicity

| | |
|------------------|--|
| ISOBUTANOL | 96 Hr LC50 Pimephales promelas: 1370 - 1670 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas: 375 mg/L [static] (fry); 96 Hr LC50 Lepomis macrochirus: 1480 - 1730 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 1120 - 1520 mg/L [flow-through] 48 Hr EC50 Daphnia magna: 1300 mg/L; 48 Hr EC50 Daphnia magna: 1070 - 1933 mg/L [Static] |
| n-Propyl acetate | 96 Hr LC50 Pimephales promelas: 56 - 64 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas: 56 - 64 mg/L [static] |

Section 13: Disposal Considerations

As the US EPA, state, regional, and other regulatory agencies may have jurisdiction over the disposal of your facility's hazardous waste, it is incumbent upon you, the hazardous waste generator, to learn of and satisfy all the requirements which affect you. Dispose of the hazardous waste at a properly licensed and permitted disposal site or facility. Ensure conformity to all applicable hazardous waste disposal regulations.

The US EPA Hazardous Waste Numbers which follow are applicable to this unadulterated product if the product enters the "waste stream." Refer to Title 40 of the Code of Federal Regulations, Part 261 (40 CFR 261). This part of the Code identifies solid wastes which are subject to regulation under various sections of the Code and which are subject to the notification requirements of Section 3010 of the Resource Conservation and Recovery Act (RCRA).

Section 14: Transport Information

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| <u>Agency</u> | <u>Proper Shipping Name</u> | <u>UN Number</u> | <u>Packing Group</u> | <u>Hazard Class</u> |
|---------------|-----------------------------|------------------|----------------------|---------------------|
| DOT | PAINT RELATED MATERIAL | 1263 | II | 3 |
| IATA | PAINT RELATED MATERIAL | 1263 | II | 3 |

15: Regulatory Information

MASSACHUSETTS RIGHT TO KNOW

109-60-4 n-Propyl acetate 30 to 40 %
78-83-1 ISOBUTANOL 60 to 70 %

NEW JERSEY RIGHT TO KNOW

109-60-4 n-Propyl acetate 30 to 40 %
78-83-1 ISOBUTANOL 60 to 70 %

PENNSYLVANIA RIGHT TO KNOW

109-60-4 n-Propyl acetate 30 to 40 %
78-83-1 ISOBUTANOL 60 to 70 %

78-83-1 ISOBUTANOL

| <u>Country</u> | <u>Regulation</u> | <u>All Components Listed</u> |
|----------------|-------------------|------------------------------|
|----------------|-------------------|------------------------------|

EU Risk Phrases

Safety Phrase

- None

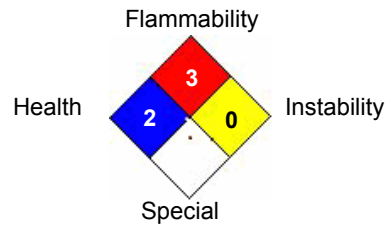
16: OTHER INFORMATION

Hazardous Material Information System (HMIS)

National Fire Protection Association (NFPA)

| | |
|---------------------|---|
| HEALTH | 2 |
| FLAMMABILITY | 3 |
| PHYSICAL HAZARD | 0 |
| PERSONAL PROTECTION | H |

HMIS & NFPA Hazard Rating Legend
 * = Chronic Health Hazard
 0 = INSIGNIFICANT
 1 = SLIGHT
 2 = MODERATE
 3 = HIGH



Reviewer Revision

Date Prepared: 7/25/2016