

Material Safety Data Sheet

Section 1 – Identification

Product Name: Tri-Epoxy Mold Release Spray

Manufacturer: KEYSTONE INDUSTRIES

52 W King St, Myerstown PA 17067

Emergency Phone Numbers: US & Canada (800) 535 - 5053

Family: Silicone Sprays

Information Contacts: (856)-663-4700

Product Use: Mold Release

EU Address: KEYSTONE EUROPE LLC

Product #: 5940310

Batavenweg 7

5349BC OSS, Netherlands

Emergency Phone Number: International 1-352-323-3500

Section 2 - Hazards Identification

EMERGENCY OVERVIEW

This information is based on findings from related or similar materials.

- **Aerosol. EXTREMELY FLAMMABLE**
- **CONTENTS UNDER PRESSURE**
- May cause respiratory tract irritation.
- Prolonged exposure may cause chronic effects.



Potential Health Effects, Signs and Symptoms of Exposure:

Primary Route of Entry	Inhalation, eye contact
Eye	Causes eye irritation.
Skin	Can cause skin irritation. Prolonged or repeated contact may dry the skin which may result in skin irritation and dermatitis (rash).
Inhalation	Intentional misuse by concentrating and inhaling the product can be harmful or fatal. Irritating to respiratory system. Prolonged inhalation may be harmful.
Ingestion	Exposure by ingestion of an aerosol is unlikely. May cause delayed lung damage. Components of the product may be absorbed into the body by ingestion.
Target Organs	Lungs. Central nervous system.
Chronic Effects	May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion and blurred vision) and/or damage. Prolonged skin contact may defat the skin and produce dermatitis. May cause delayed lung injury.
Signs and symptoms	Discomfort in the chest. Narcosis. Defatting of the skin. Skin irritation.

NOTE: Refer to Section 11, Toxicological Information for Details

Section 3 - Composition/Information on Ingredients

Chemical Identity	CAS Numbers	EINECS#	INCI Name	Exposure	Limits	Carcinogen IARC/NTP/OSHA	%
				OSHA TWA/STEL	ACGIH TWA/STEL		
Propane	74-98-6			1000ppm/ N/E	1000ppm/ N/E		40-50
Aliphatic Petroleum Solvent	64742-89-8						40-50
Odorless Mineral Spirits	64742-48-9						5-8
Non-hazardous and other components below reportable levels							1-2.5
N/E - None Established	N/DA - No Data Available						
N/R - Not Reviewed	N/A - Not Applicable						

Propane: Hazard Symbol: F+ Risk Phrases: R12, R36/37/38 Safety Phrases: S2
Aliphatic Petroleum Solvent: Hazard Symbol: N/E Risk Phrases: R22 Safety Phrases: S16
Odorless Mineral Spirits: Hazard Symbol - N/A Risk Phrases - N/A Safety Phrases - N/A

See Section 16 for Risk and Safety Phrase Key

Section 4 - First Aid Measures

First Aid for Eye	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops or persists.
First Aid for Skin	Remove and isolate contaminated clothing and shoes. Wash exposed area with soap and warm water. If symptoms develop or persist, seek medical attention.
First Aid for Inhalation	Remove to fresh air. If breathing is difficult, administer oxygen. If symptoms persist, seek medical attention.
First Aid for Ingestion	In the unlikely event of swallowing, contact a physician or poison control center. Do not induce vomiting without advice from poison control center. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

Section 5 - Fire Fighting Measures

Flash Point (°F/°C)	Flammable Limit (vol%)	Auto-ignition Temperature (vol%)
-156°F/-104.4°C Propellant	2.3% (for propane)	9.5% (for propane)

Method:

Extinguishing Media:	Water, water spray, water fog, carbon dioxide (CO ₂), dry chemicals.
Fire Fighting Instructions:	In case of fire and/or explosion, do not breathe fumes. Containers should be cooled with water to prevent vapor pressure build up. Cool containers with flooding quantities of water until well after fire is out. Move containers from fire area if you can do so without risk. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out. Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
Unusual Hazards:	Heat may cause the containers to explode. Vapor or gas may spread to distant ignition sources and flash back. Runoff to sewer may cause explosion hazard.

Section 6 - Accidental Release Measures

Method of containment	Stop leak if you can do so without risk. Move cylinder to a safe and open area if the leak is irreparable. Stop the flow of material, if this is without risk. Use water spray to reduce vapors or divert vapor cloud drift.
Method for cleaning up	Should not be released into the environment. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place it into a container for later disposal.
	Small spills: Wipe up with absorbent material (i.e. cloth, fleece). Clean contaminated surface thoroughly. After removal flush contaminated area thoroughly with water.

Section 7 - Handling and Storage

Handling	Pressurized container: Do not pierce or burn, even after use. Use only in area provided with appropriate exhaust ventilation. Do not use if spray button is missing or defective. Avoid breathing dust/fume/gas/mist/vapors/spray. Wear personal protective equipment. Avoid prolonged exposure.
Storage	Level 3 Aerosol. Contents under pressure. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. Avoid exposure to long periods of sunlight. Store in cool place. Store in well-ventilated place. Keep out of the reach of children.

Material Safety Data Sheet

Section 8 - Exposure Controls / Personal Protection

Personal Protective Equipment

Skin Protection Wear appropriate chemical resistant clothing. Wear protective gloves.

Respiratory Protection Wear positive pressure self-contained breathing apparatus (SCBA). Avoid breathing dust/fume/gas/mist/vapors/spray. If permissible levels are exceeded use NIOSH mechanical filter/organic vapor cartridge or an air-supplied respirator.

Section 9 - Physical and Chemical Properties

Appearance	Odor & Odor Threshold	pH	Specific Gravity	Viscosity	% Volatile
Compressed liquefied gas. Clear, colorless	Solvent	N/A	(H ₂ O = 1) 0.5915 estimated	N/A	N/A

Boiling Point/ Freezing Point	Decomposition Temperature	Octanol/Water Partitioning Coefficient Log Po/w	Vapor Pressure:	Vapor Density	Evaporation Rate	Ignition	Solubility In Water (20°C)
46.4°F/7.8°C estimated	N/A	N/A	77 – 87 psig @70°F	N/A	N/A	N/A	Partially

Flash Point (°F/°C)	Flammable Limit (vol%)	Auto-ignition Temperature (vol%)
-156°F/-104.4°C Propellant	2.3% (for propane)	9.5% (for propane)

Section 10 - Stability and Reactivity

Stability:

Risk of ignition

Hazardous Decomposition Products:

No hazardous decomposition products known.

Conditions to Avoid:

Heat, flames and sparks.

Incompatibility (Materials to Avoid):

Strong oxidizing agents.

Hazardous Polymerization:

Will not occur

Section 11 - Toxicological Information

Acute Oral Toxicity	Acute Dermal Toxicity	Acute Inhalation Toxicity	Irritation - skin	Irritation - Eye
No information available	Acute LD50: 5928 mg/kg estimated, Rat	Acute LC50: 1316 mg/l/4h estimated, Rat	No information available	No information available

Component analysis – LD50

Toxicology Data – selected LD50s and LC50s

Aliphatic Petroleum Solvent	64742-89-8	Oral LD50 Mouse 5000mg/kg; Dermal LD50 Rabbit 3000 mg/kg
Odorless Mineral Spirits	64742-48-9	Oral LD50 Rat >5000 mg/kg; Dermal LD50 Rabbit > 3160 mg/kg
Propane	74-98-6	Inhalation LC50 Rat 658 mg/L 4 h

Further hazardous properties cannot be excluded. The product should be handled with care when dealing with chemicals.

Sensitization	Mutagenicity	Sub-chronic Toxicity
No information available	No information available	No information available

Section 12 - Ecological Information

Ecotoxicological Information

Acute Toxicity To Fish	Acute Toxicity to Invertebrates	Acute Toxicity to Algae	Bioconcentration	Toxicity to Sewage Bacteria
LC50 41509 mg/L estimated 96.00 hours, Fish	EC50 estimated 48.00 hours, Daphnia	No information available	No information available	No information available

Chemical Fate Information

Biodegradability	No information available
Chemical Oxygen Demand	No information available

Components of this product have been identified as having potential environmental concerns.

To the best of our knowledge, the ecotoxicological and chemical fate properties have not been thoroughly investigated.

Do not allow to enter drinking water supplies, wastewater, or soil.

Material Safety Data Sheet

Section 13 - Disposal Considerations

Waste Flammable material with a flash point of <140°F.

Contents under pressure. Dispose of this material and its container at hazardous or special waste collection point. Do not incinerate sealed containers. Do not allow this material to drain into sewers/water supplies. If discarded, this product is considered a RCRA ignitable waste, D001.

For EU Member States, please refer to any relevant Community provisions relating to waste. In their absence, it is useful to remind the user that national or regional provisions may be in force.

Section 14 - Transport Information

DOT (49 CFR 172)	
Proper Shipping Name:	Consumer Commodity, ORM-D
Identification Number:	
Marine Pollutant:	
Special Provisions:	Packaging Exceptions 156, 306
Emergency Response Guidebook (ERG) #:	
IATA (DGR):	
Proper Shipping Name:	AEROSOLS
Class or Division:	2.1
UN or ID Number:	1950
Packaging Instructions:	
Emergency Response Guidance (ICAO)#:	
IMO (IMDG):	
Proper Shipping Name:	Aerosols, flammable
Class or Division:	2.1
UN or ID Number:	1950
Special Provisions & Stowage/Segregation:	
Emergency Schedule (EmS)#:	
Other Information:	Flash point -156°F/-104.4°C

Section 15 - Regulatory Information

US Federal Regulations

Clean Air Act: HAP/ODS	This product contains the following hazardous air pollutants (HAPs): <ul style="list-style-type: none"> • None There are no ODS's (ozone depleting substances) as defined by the U. S. Clean Air Act.
Clean Water Act: Priority Pollutant	This product contains no chemicals listed under the U. S. Clean Water Act Priority Pollutant and Hazardous Substance List.
FDA: Food Packaging Status	This product has not been cleared by the FDA for use in food packaging and / or other applications as an indirect food additive.
Occupational Safety and Health Act	This product is considered to be hazardous under the OSHA Hazard Communication Standard. Its hazards are: <ul style="list-style-type: none"> • Immediate (acute) health hazard • Delayed health hazard • Fire hazard • Pressure hazard
RCRA	This product contains chemicals considered to be hazardous waste under RCRA (40 CFR 261): <ul style="list-style-type: none"> • Propane CAS# 74-98-6, RCRA Code D001 • Characteristic of Ignitability, RCRA Code: D001
SARA Title III: Section 302 (RQ)	This product contains no chemicals regulated under Section 302 as extremely hazardous substances.
SARA Title III: Section 302 (TPQ)	This product contains no chemicals regulated under Section 302 as extremely hazardous chemicals for emergency release notification ("CERCLA" List)

Material Safety Data Sheet

SARA Title III: Section 311-312:	This product is considered to be hazardous under the OSHA Hazard Communication Standard. Its hazards are: <ul style="list-style-type: none"> • Immediate (acute) health hazard • Delayed health hazard • Fire hazard • Pressure hazard
SARA Title III: Section 313:	This product contains no chemicals which are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.
TSCA Section 8(b): Inventory: TSCA Significant New Use Rule:	This product contains chemicals listed on the TSCA inventory or otherwise complies with TSCA premanufacture notification requirements. None of the chemicals in this material have a SNUR under TSCA.


State Regulations

CA Right-to-Know Law: California No Significant Risk Level:	None None
MA Right-to-Know Law:	Propane CAS# 74-98-6
NJ Right-to-Know Law:	Propane CAS# 74-98-6
PA Right-to-Know Law:	Propane CAS# 74-98-6
FL Right-to-Know Law:	None
MN Right-to-Know Law:	None

International Regulations

CDSL: Canadian Inventory (on Canadian Transitional List)	Propane CAS# 74-98-6 is on the DSL list WHMIS = A, B-1 Odorless Mineral Spirits CAS# 64742-48-9 is on the DSL list WHMIS = A, B3, D2B
---	--

Labeling according to EC directives – 1999/45/EC

European Community: 	Propane: <ul style="list-style-type: none"> • HAZARD SYMBOLS: F+ <i>Extremely Flammable</i> • RISK PHRASES: R12, <i>extremely flammable</i>, R36/37/38: <i>Irritating to eyes, respiratory system and skin</i> • SAFETY PHRASES: S2 <i>Keep out of the reach of children</i>, S16: <i>keep away from sources of ignition- no smoking</i> Aliphatic Petroleum Solvent: <ul style="list-style-type: none"> • HAZARD SYMBOLS: N/A • RISK PHRASES: R22 <i>Harmful if swallowed</i> • SAFETY PHRASES: N/E
--	--

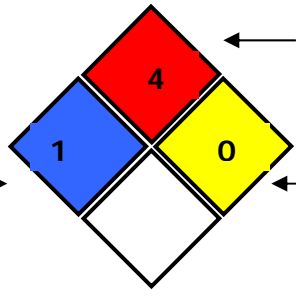
Section 16 - Other Information

EU Classes and Risk / Safety Phrases for Referenced Ingredients (See Section 2):

Hazard Symbol: F+ – Extremely Flammable Risk Phrases: <i>R22 Extremely Flammable; R22 Harmful if swallowed, R36/37/38: Irritating to eyes, respiratory system and skin</i> Safety Phrases: <i>S2 Keep out of the reach of children; S16 Keep away from sources of ignition - No smoking;</i>
--

Material Safety Data Sheet

Hazard Rating System (Pictograms)

<p>NFPA:</p> <div style="display: flex; align-items: center; justify-content: center;"> <div style="text-align: center; margin-right: 20px;"> <p>Health →</p>  </div> <div style="text-align: center;"> <p>← Flammability</p> <p>← Reactivity</p> </div> </div>	<p>HMIS:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center; width: 30px;">1</td> <td style="background-color: #0070C0; color: white; padding: 5px;">Health</td> </tr> <tr> <td style="text-align: center;">4</td> <td style="background-color: #FF0000; color: white; padding: 5px;">Flammability</td> </tr> <tr> <td style="text-align: center;">0</td> <td style="background-color: #FFFF00; padding: 5px;">Reactivity</td> </tr> <tr> <td colspan="2" style="height: 30px;"></td> </tr> </table>	1	Health	4	Flammability	0	Reactivity		
1	Health								
4	Flammability								
0	Reactivity								

MSDS Prepared by:	SWR/JRR
-------------------	---------

Revision History:	02/01/2010 Initial Issue in new format

The information presented herein was obtained from sources considered to be reliable. However, this information is provided without any warranty, expressed or implied, regarding its correctness or suitability for consumers intended use and/or application. For this and other reasons, we assume no responsibility and expressly disclaim liability for loss, damage or expense arising out of any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared expressly for this product. Use the materials only as directed. If the product is used as a component of another product, the information contained within the MSDS may not be applicable. If there are any problems or concerns understanding this MSDS form, please direct all questions to INFOTRAC, Chemical Emergency Resources System at 1(800) 535-5053.