

SAFETY DATA SHEET

KlingStone Paths Klear

Section 1: Product and Company Identification

Trade Name: KlingStone Paths

Product Name: Klear

Manufacturer:

KlingStone Paths, LLC

235 Pigeon Street

Waynesville, NC 28786

Phone 800-942-5151 US/Canada * 828-456-9970 International

24 Hour Emergency Contact Number:

CHEMTREC United States/Canada 800-424-9300

Section 2: Hazards Identification

GHS Classifications

Health:

Acute Toxicity (Inhalation), Category 2

Skin Irritation, Category 2

Eye Irritation, Category 2

Respiratory Sensitization, Category 1

Skin Sensitization, Category 1

Target Organ Toxicity, Single Exposure, Category 3

GHS Label



Health hazard



Skull and Crossbones

Signal Word: Danger.

Hazard Statements

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H319: Causes serious eye irritation.

H330: Fatal if inhaled.

H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335: May cause respiratory irritation.

Precautionary Statements

Prevention:

P260: Do not breathe mist, vapors and spray.

P264: Wash skin thoroughly after handling.

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

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

P280: Wear protective gloves, protective clothing, eye protection and face protection.

P284: In case of inadequate ventilation wear respiratory protection.

Response:

P302+P352: IF ON SKIN: Wash with plenty of soap and water.

P362: Take off contaminated clothing.

P333+P313: If skin irritation or rash occurs: Get medical attention.

P304+P340: IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

P310: Immediately call a POISON CENTER or physician.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313: If eye irritation persists: Get medical attention.

Section 3: Composition/Information on Ingredients

Component	% (weight)	Product Identifier
IPDI Prepolymer	50-70	CAS No. 113126-53-7
Isophorone diisocyanate	20-25	CAS No. 4098-71-9
1,3-Dioxolan-2-one, 4-methyl-	5-10	CAS No. 108-32-7
UV Stabilizers	1-2	

Section 4: First Aid Measures

Eyes: Immediately flush eyes with plenty of water. Remove contact lenses, if present. Seek medical attention if irritation persists.

Skin: Immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Seek medical attention if irritation or rash occurs.

Ingestion: If person is conscious, wash out mouth with water. Seek immediate medical attention. Do not induce vomiting unless instructed to do so by a poison center or physician.

Inhalation: Move person to fresh air. Seek medical attention. Symptoms may be delayed for several hours.

Section 5: Firefighting Measures

Extinguishing Media: Water fog, foam, dry chemical or carbon dioxide.

Hazardous Combustion Products: Carbon oxides, nitrogen oxides, isocyanates and trace amounts of hydrogen cyanide.

Explosion Hazards: Water contamination produces carbon dioxide gas. This may cause pressurization or explosion of containers.

Fire Fighting Equipment: Exposed firefighters must wear NIOSH-approved positive pressure self-contained breathing apparatus with full-face mask and full protective clothing.

Section 6: Accidental Release Measures

Personal Protection: Wear protective equipment listed in Section 8.

Small Spill: Isolate the area and prevent entry of unnecessary and unprotected personnel. Do not walk through or otherwise scatter spilled product. Absorb with dry chemical absorbent. Place in a chemical waste container.

Large Spill: Same procedure as for a small spill. Prevent entry into waterways, sewers, basements, or confined areas. Allow to stand uncovered 48 hours before closing the waste container.

Comment: Avoid using earth, sand, and clay as absorbents as these can be wet. Isocyanates react with water to form carbon dioxide. Carbon dioxide functions as a blowing agent, causing the product to foam. Allow the waste container to stand uncovered 48 hours before closing. Reaction with water can be slow. Build-up of carbon dioxide in a closed container can rupture the container.

General Procedures: Clean spill area with a decontamination solution. Suggested formulation: Sodium carbonate (5-10%), liquid detergent (1-2%), water (88-94%). Alternate formulation: Concentrated ammonia (3-8%), liquid detergent (1-2%), water (90-96%). Ensure adequate ventilation to prevent overexposure of ammonia.

Section 7: Handling and Storage

Handling: Do not get in eyes, on skin or on clothing. Wash hands before eating, drinking or smoking. Do not breathe vapors or mists. Use only with adequate ventilation. Keep container closed when not in use. Do not reseal if contaminated. Keep away from heat and flame.

Storage: Store in tightly closed containers in cool, dry and well-ventilated area away from heat or sources of ignition. Keep out of direct sunlight.

Storage Temperature: 15.5 °C (60 °F) to 37.7 °C (100 °F)

Section 8: Exposure Controls/Personal Protection

Exposure limits:

Component	CAS No.	ACGIH/TLV
Isophorone diisocyanate	4098-71-9	0.005 ppm

Engineering Controls: Local exhaust ventilation used in combination with general ventilation as necessary to control air contaminants.

Eyes and Face: Wear a face shield and chemical safety glasses or goggles.

Skin: Wear impervious gloves. Cover exposed skin.

Respiratory: For airborne exposure above the exposure limit(s), wear a NIOSH approved air-purifying respirator equipped with organic vapor cartridges. For situations where the atmospheric levels may exceed the level for which an air-purifying respirator is effective, use a positive-pressure air-supplying respirator.

Work Hygienic Practices: Avoid eating, drinking or smoking while using this material. Wash hands thoroughly after handling.

Section 9: Physical and Chemical Properties

Appearance	Colorless to light yellow liquid.
Odor	Pungent.
Autoignition Temperature	Not established.
Freezing Point	Not established.
Boiling Point	Not established.
Flash Point (Closed Cup)	Not established.
Vapor Pressure	< 0.014 hPa at 20°C (68°F)
Vapor Density (air = 1)	Heavier than air.
Solubility in water	Insoluble.
Specific Gravity (water = 1)	1.04 at 25°C (77°F)
Viscosity (centipoise)	1000 at 25°C (77°F)

Section 10: Stability and Reactivity

Stability: Stable.

Hazardous Polymerization: Can be caused by elevated temperatures.

Hazardous Decomposition Products: Carbon oxides, nitrogen oxides, isocyanates and trace amounts of hydrogen cyanide.

Incompatible Materials: Water, amines, oxidizers, alcohols and strong bases.

Section 11: Toxicological Information

Acute:

Component	Oral LD ₅₀ (rat)	Dermal LD ₅₀ (rabbit)	Inhalation LC ₅₀ (rat)
Isophorone diisocyanate	4187 mg/kg	> 7000 mg/kg	0.031 mg/l/4h
1,3-Dioxolan-2-one, 4-methyl-	29100 mg/kg	23800 mg/kg	

Carcinogenicity:

IARC: Not regulated as a carcinogen.

NTP: Not regulated as a carcinogen.

OSHA: Not regulated as a carcinogen.

Section 12: Ecological Information

Ecotoxicological Information:

Isophorone diisocyanate: EC₅₀ (Daphnia magna) 27 mg/l/48h

Section 13: Disposal Considerations

Disposal Method: Dispose in accordance with local, state, provincial or national regulations.

Empty Container: Decontaminate and pass to an approved drum recycler or destroy.

RCRA/EPA Waste Information: If discarded in its purchased form, this material is not a RCRA hazardous waste.

General Comments: The generation of waste should be avoided or minimized whenever possible. Chemical waste, even small quantities, should never be poured into drains, sewers or waterways.

Section 14: Transport Information

U.S. DOT: Not regulated.

ICAO/IATA: Not regulated.

IMO/IMDG: Not regulated.

Section 15: Regulatory Information

United States

SARA Title III (Superfund Amendments and Reauthorization Act)

311/312 Hazard Categories: Acute, Chronic, Reactive.

313 Reportable Components:

Component	CAS No.
Isophorone diisocyanate	4098-71-9

CERCLA (Comprehensive Environmental Response and Liability Act): None.

TSCA (Toxic Substances Control Act): All components are in TSCA inventory.

RCRA Status: If discarded in its purchased form, this material is not a RCRA hazardous waste.

Section 16: Other Information

Date Issued: September 7, 2009

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information. This SDS is not a specification data sheet. Some of the information and conclusions may be derived from sources other than test data on the material itself.

Abbreviations and Acronyms:

ACGIH	American Conference of Governmental Industrial Hygienists
CAS	Chemical Abstracts Service
EC ₅₀	Median effective concentration
EINECS	European Inventory of Existing Commercial Chemical Substances
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
LC ₅₀	Lethal concentration to 50% of exposed laboratory animals
LD ₅₀	Lethal dose to 50% of exposed laboratory animals
TWA	Time-weighted average
TLV	Threshold limit value
NIOSH	US National Institute of Occupational Safety and Health
NE	Not established
NTP	US National Toxicology Program
OEL	Occupational exposure limit
OSHA	US Occupational Safety Health Administration
PEL	Permissible exposure limit
RQ	Reportable quantity
STEL	Short term exposure limit
U.S. DOT	United States Department of Transportation