

SAFETY DATA SHEET

450 Urethane Topcoat - Clear Part A

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Supersedes Revision: 10/27/2016

1. Product and Company Identification

Product Code: 450-CLEAR
Product Name: 450 Urethane Topcoat - Clear Part A
Company Name: Key Resin / Flowcrete
4050 Clough Woods Dr.
Batavia, OH 45103
Phone Number: +1 (513)943-4225
Emergency Contact: Chemtrec (USA) (800)424-9300
Chemtrec (International) +1 (703)527-3887
Intended Use: Industrial Maintenance Coatings

2. Hazards Identification

Flammable Liquids, Category 3
Acute Toxicity: Inhalation, Category 4
Serious Eye Damage/Eye Irritation, Category 2A
Skin Corrosion/Irritation, Category 2
Toxic To Reproduction, Category 2



Warning



Warning



Warning

GHS Hazard Phrases: H226 - Flammable liquid and vapor.
H315 - Causes skin irritation.
H319 - Causes serious eye irritation.
H332 - Harmful if inhaled.
H361 - Suspected of damaging fertility or the unborn child .

GHS Precaution Phrases: P202 - Do not handle until all safety precautions have been read and understood.
P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P233 - Keep container tightly closed.
P241 - Use explosion-proof electrical/ventilating/lighting/.../ equipment.
P242 - Use only non-sparking tools.
P243 - Take precautionary measures against static discharge.
P261 - Avoid breathing mist/vapors/spray.
P264 - Wash hands thoroughly after handling.
P271 - Use only outdoors or in a well-ventilated area.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P281 - Use personal protective equipment as required.

GHS Response Phrases: P303+361+353 - IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. P352 - Wash with plenty of soap and water.
P333+313 - If skin irritation or rash occurs, seek medical advice/attention.
P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+313 - If eye irritation persists, get medical advice/attention.
P308+313 - IF exposed or concerned: Get medical attention/advice.
P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P312 - Call a POISON CENTER or doctor/physician if you feel unwell.

GHS Storage and Disposal Phrases: P403+235 - Store in cool/well-ventilated place.
P405 - Store locked up.
P501 - Dispose of contents/container to local, state, and federal authority requirements.

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OSHA Regulatory Status:	This material is classified as hazardous under OSHA regulations.
Potential Health Effects (Acute and Chronic):	May cause skin, eye, and respiratory irritation. Substance can be absorbed through the skin in harmful amounts. Signs and symptoms of excessive exposure may be central nervous system effects such as sleepiness and unconsciousness.
Inhalation:	May cause respiratory irritation. Vapors may have a strong offensive odor which may cause headaches, nausea and vomiting.
Skin Contact:	May cause skin irritation. Repeated exposure may cause skin dryness or cracking. May be harmful if absorbed through the skin.
Eye Contact:	Substance causes moderate eye irritation.
Ingestion:	May be harmful if swallowed and enters airways.
Medical Conditions Generally Aggravated By Exposure:	Skin disorders, Respiratory disorders, Eye disorders, Skin Allergies.

3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)	Concentration	
NA	Polyester Resin (Proprietary)	35 - 50 %	
108-65-6	Propylene glycol methyl ether acetate	25 - 35 %	
1330-20-7	Xylene	10 - 20 %	
100-41-4	Ethyl Benzene	<=0.10 %	

4. First Aid Measures

Emergency and First Aid Procedures:	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Use first aid treatment according to the nature of the injury.
In Case of Inhalation:	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If experiencing respiratory symptoms: Get medical attention immediately.
In Case of Skin Contact:	In case of contact, immediately wash skin with soap and copious amounts of water. Remove contaminated clothing and shoes. Get medical attention if irritation develops or persists.
In Case of Eye Contact:	In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Remove contact lenses, if present and easy to do. Continue rinsing. Consult a physician.
In Case of Ingestion:	Rinse mouth and then drink plenty of water. Do not induce vomiting. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Immediate medical attention required.
Signs and Symptoms Of Exposure:	May cause rash on skin, and redness in eyes. May cause coughing by inhalation of a mist or spray.

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5. Fire Fighting Measures

Flash Pt:	~ 77.00 F (25.0 C)
Explosive Limits:	LEL: NE UEL: NE
Autoignition Pt:	N.E.
Suitable Extinguishing Media:	Use water spray, dry chemical, carbon dioxide, or alcohol-resistant foam. Dry extinguishing media, foam.
Unsuitable Extinguishing Media:	Do not use a direct water stream, which may spread fire.
Fire Fighting Instructions:	Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
Flammable Properties and Hazards:	Closed container may rupture (due to build up in pressure) when exposed to extreme heat.

6. Accidental Release Measures

Protective Precautions, Protective Equipment and Emergency Procedures:	Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves. Where splashing is possible, full chemically resistant protective clothing, and boots are required.
Environmental Precautions:	Prevent entry into waterways, sewers, basements or confined areas.
Steps To Be Taken In Case Material Is Released Or Spilled:	PROCEDURE TO BE FOLLOWED IN CASE OF LEAK OR SPILL. Use personal protective equipment. Remove all sources of ignition. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Ventilate the area. Prevent further leakage or spillage if safe to do so. Dike far ahead of spill; use dry sand to contain the flow of material. Use a non-combustible material like vermiculite or sand to soak up the product and place into a container for later disposal. Use clean non-sparking tools to collect absorbed material.

7. Handling and Storage

Precautions To Be Taken in Handling:	Wear all personal protection required. Wash thoroughly after handling. Provide adequate ventilation. Do not breathe vapor. Do not get in eyes, on skin or on clothing. When using multi-component systems, be aware of hazards for all components.
Precautions To Be Taken in Storing:	Keep away from sources of ignition - No smoking. Store in a tightly closed container. Protect from sunlight and store in well-ventilated place. Store away from incompatible material.
Other Precautions:	Keep away from sources of ignition - No smoking. Keep away from heat, sparks, and flame.

8. Exposure Controls/Personal Protection

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
NA	Polyester Resin (Proprietary)	No data.	No data.	No data.
108-65-6	Propylene glycol methyl ether acetate	No data.	No data.	No data.
1330-20-7	Xylene	PEL: 100 ppm	TLV: 100 ppm STEL: 150 ppm	No data.
100-41-4	Ethyl Benzene	PEL: 100 ppm	TLV: 100 ppm STEL: 125 ppm	No data.

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Respiratory Equipment (Specify Type):	Respiratory protection in case of vapor/aerosol release. Combination filter for gases/vapors of organic compounds and solid and liquid particles (f.e. EN 14387 Type A-P2). In isocyanate-containing environments (air-purifying or fresh air-supplied) may be necessary for spray applications or other situations such as high temperature use which may produce inhalation exposures.
Eye Protection:	Safety glasses, or goggles.
Protective Gloves:	Nitrile rubber and Neoprene are recommended. Check during use that the gloves are still retaining their protective properties.
Other Protective Clothing:	Where splashing is possible, full chemically resistant protective clothing, safety glasses or face shield and boots are required.
Engineering Controls (Ventilation etc.):	Good general ventilation should be sufficient to control airborne levels. Safety shower and eye bath.
Work/Hygienic/Maintenance Practices:	Wash contaminated clothing before reuse. Discard contaminated shoes. Wash thoroughly after handling.
Environmental Exposure Controls:	Avoid runoff into storm sewers and ditches which lead to waterways. May be hazardous to the environment if released in large quantities.

9. Physical and Chemical Properties

Physical States:	<input type="checkbox"/> Gas <input checked="" type="checkbox"/> Liquid <input type="checkbox"/> Solid
Appearance and Odor:	Odor: Solvent odor. Appearance: Clear.
Melting Point:	NE
Boiling Point:	No data.
Decomposition Temperature:	NE
Autoignition Pt:	N.E.
Flash Pt:	~ 77.00 F (25.0 C)
Explosive Limits:	LEL: NE UEL: NE
Specific Gravity (Water = 1):	~ 1.045
Density:	~ 8.72 LB/GL
Vapor Pressure (vs. Air or mm Hg):	NE
Vapor Density (vs. Air = 1):	NE
Evaporation Rate:	NE
Solubility in Water:	NE
Solubility Notes:	Partial solubility.
Saturated Vapor Concentration:	NE
Percent Volatile:	~ 59 % by weight.
VOC / Volume:	NP

10. Stability and Reactivity

Reactivity:	Avoid uncontrolled contact with isocyanates.
Stability:	Unstable <input type="checkbox"/> Stable <input checked="" type="checkbox"/>
Conditions To Avoid - Instability:	Extreme temperatures. Heat, flames and sparks.
Incompatibility - Materials To Avoid:	Strong oxidizing agents.
Hazardous Decomposition Or Byproducts:	Thermal decomposition may produce smoke, carbon monoxide, carbon dioxide.
Possibility of Hazardous	Will occur <input type="checkbox"/> Will not occur <input checked="" type="checkbox"/>

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Polymerization:**Conditions To Avoid -** Will not undergo hazardous polymerization in normal storage conditions.**Hazardous Reactions:**

11. Toxicological Information

Toxicological Information: May be harmful if absorbed through the skin.
CAS# 1330-20-7: Acute toxicity, LD50, Oral, Rat, 4300. MG/KG. Results: Liver: Other changes. Kidney, Ureter, Bladder:Other changes. ; AMA Archives of Industrial Health., For publisher information, see AEHLAU, Chicago, IL, Vol/p/yr: 14,387, 1956
Acute toxicity, LC50, Inhalation, Rat, 5000. PPM, 4 H. Results: Behavioral: Convulsions or effect on seizure threshold. Behavioral: Ataxia. Lungs, Thorax, or Respiration:Dyspnea. ; Raw Material Data Handbook, Vol.1: Organic Solvents, 1974., National Assoc. of Printing Ink Research Institute, Francis McDonald Sinclair Memorial Labor, Lehigh Univ., Bethlehem, PA 18015, Vol/p/yr: 1,123, 1974

Irritation or Corrosion: May cause skin, eye, and respiratory irritation.

Symptoms related to Toxicological Characteristics: May cause rash on skin, and redness in eyes. May cause coughing by inhalation of a mist or spray.

Chronic Toxicological Effects: No data available based on mixture itself.

12. Ecological Information

General Ecological Information: Avoid release to the environment.

Results of PBT and vPvB assessment: No data available.

Persistence and Degradability: Not readily biodegradable.

Bioaccumulative Potential: No data available.

Mobility in Soil: not reported, unknown.

13. Disposal Considerations

Waste Disposal Method: Dispose of this product, product solutions and its container according to federal, state and local authority requirements. Liquids cannot be disposed of in a landfill. Empty containers may contain product residue. Care should be taken while handling and disposing of empty containers that contain residue. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.

14. Transport Information

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: PAINT.

"Limited Quantity" used for 1 gallon containers when shipped in the United States of America.

DOT Hazard Class: 3 FLAMMABLE LIQUID

UN/NA Number: UN1263 **Packing Group:** III

Precautionary Label: Warning! Flammable Liquid. Ventilation is normally required when handling or using this product to keep exposure to airborne contaminants below the exposure limit. Vapors or mist may be a fire and explosion hazard when exposed to high temperature or ignition. Ground and bond containers and equipment before transferring to avoid static sparks. Always read Safety Material Data Sheet before use.

