

KRETUS®

Safety Data Sheet



SECTION 1: IDENTIFICATION

Product Name: KRETUS® Hydrothane, Part A

Recommended Use: For professional use only.

Manufacturer: Kretus, 1055 W. Struck Ave., Orange, CA 92867

Telephone: (714) 694-2061

24 Hour Emergency Telephone Number: (800) 255-3924 (CHEMTEL)

Emergency telephone numbers are to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure, or accident involving chemicals. All non-emergency questions should be directed to customer service.

Comments: To the best of our knowledge, this Safety Data Sheet conforms to the requirements of US OSHA 29 CFR1910.1200, 91/155/EEC.

SECTION 2: HAZARD IDENTIFICATION

GHS Classification of the substance or mixture

Skin Corrosion/Irritation Category 3.

Signal Word: WARNING

Hazard Statements

H316 Causes mild skin irritation.

Pictogram: Not applicable

Preventive measures:

Use the necessary personal protective equipment (gloves, goggles, protective clothing etc.). Clean the exposed parts of the body in case of skin contact. No eating, drinking or smoking in the workplace. Use only outdoors or in a well-ventilated area.

Accident response:

If inhaled: In case of reactions, seek medical advice.

In case of eye or skin contact: Wash with plenty of water/soap. In case of reactions, consult a physician.

If swallowed: Rinse mouth. Do not induce vomiting. If swallowed seek medical advice immediately.

In case of leakage: Collect leakage.

Suitable extinguishing substances: Carbon dioxide (CO₂), Foam, Extinguishing powder, Water spray jet.

Storage:

Please store the product in sealed original packaging, cool and dry condition. Storage temperature should be maintained between 5°C and 35°C. The product should be protected from freezing during storage. Immediately seal the package after use.

Disposal: Dispose of contents/container to an approved waste disposal plant in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Physical and chemical hazards: May cause pollution to water and soil.

Health hazard: No

Environmental hazards: no release of dangerous substances. Do not allow to enter sewage system in case of blockage due to polymer deposition.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

Chemical Name	CAS No.	Concentration (% by Weight)
Polyacrylate containing hydroxylgroups	N/A	44-46%
Polyols	N/A	5%
1-Butoxy-2-propanol	5131-66-8	1.1%
Water	7732-18-5	48-50%

There is no GHS hazards classification for Polyacrylate containing hydroxylgroups and polyols.

SECTION 4: FIRST-AID MEASURES

Description of first aid measures

General advice: In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

If inhaled: No special measures are necessary. In case of irritation, seek medical advice.

In case of skin contact: Wash with plenty of water/soap. In case of skin reactions, consult a physician.

In case of eye contact: Rinse cautiously with water for at least 20 minutes. Tilt the head in order to avoid contact with the other eye. Contact an ophthalmologist.

If swallowed: In all cases of doubt, or when symptoms persist, seek medical advice immediately.

Most important symptoms and effects, both acute and delayed

Symptoms: May cause irritation by skin contact.

Indication of any immediate medical attention and special treatment needed

Immediate medical attention: First Aid, decontamination, treatment of symptoms.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media: Carbon dioxide (CO₂), Foam, Extinguishing powder, Water spray jet

In case of major fire and large quantities: Water spray jet, alcohol resistant foam

Co-ordinate fire-fighting measures to the fire surroundings.

Advice for firefighters

Firefighters have to wear self-contained breathing apparatus.

Hazards during fire-fighting

Carbon monoxide, Carbon dioxide, Oxynitride.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Use personal protection equipment. Keep unauthorized persons away.

Environmental precautions

Do not empty into drains.

Methods and material for containment and cleaning up

Methods for cleaning up: Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid-or universal binding agents). Treat the recovered material as described in the section on waste disposal.

Reference to other sections

Reference to other sections Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: HANDLING AND STORAGE

Control parameters

The product does not contain any relevant quantities of materials with critical values that have to be mentioned at the workplace.

Handling

The precautions required in the handling of solvents must be taken. Ensure adequate ventilation and, if necessary, exhaust ventilation when handling or transferring the product. Explosion protection required.

Storage

The product will keep stable for 12 months when stored in its sealed original packaging at temperatures between 5°C and 35°C. Storage at temperatures below 5°C will make the product frozen and cause irreversible damage. The product should therefore be protected from freezing during storage. Temperatures higher than 35°C should be avoided in order to prevent the evaporation of water, which will result in the formation of a non-redispersible polymer film.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure controls

Respiratory protection: Respiratory equipment required in insufficiently ventilated working areas and during spraying.

Hand protection: Suitable materials for safety gloves; EN 374:

Butyl rubber – IIR: thickness $\geq 0.5\text{mm}$; breakthrough time $\geq 480\text{min}$.

Recommendation: contaminated gloves should be disposed of.

Conditionally suitable materials for protective gloves; EN 374:

Nitrile rubber – NBR ($\geq 0.35\text{mm}$)

Breakthrough time not tested; dispose of immediately after contamination.

Eye protection: Wear eye/face protection.

Body protection: Wear suitable protective clothing.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid: transparent to light milky
Odor	Slight inherent odor
Odor Threshold	No data available
pH	7.0-9.0
Melting/Freezing Point	No data available
Initial Boiling Point and Boiling Range	No data available
Flash Point	$>93^{\circ}\text{C}$
Evaporation Rate	No data available
Flammability	No
Upper/Lower Flammability or Explosive Limits	No data available
Auto-ignition Temperature	No data available

Vapor Pressure	No data available
Vapor Density	1.06 at 20°C
Relative Density/Specific Gravity	1.06
Solubility(ies)	Misible
Partition Coefficient: n-octanol/water	No data available
Auto-ignition Temperature	No data available
Decomposition Temperature	No data available
Viscosity	50-2500 mPa.s at 25°C
VOC (Volatile Organic Compounds)	No data available

SECTION 10: STABILITY AND REACTIVITY

10.1 Stability

No decomposition when used and stored properly.

10.2 Materials to avoid

Acids, bases and electrolyte solution.

10.3 Conditions to avoid

Strong light, high temperature and low temperature.

10.4 Hazardous decomposition products

On drying of the coating release of neutralizing agent.

SECTION 11: TOXICOLOGICAL INFORMATION

Toxicological studies on the product are not yet available.

Polyacrylate containing hydroxylgroups:

TOXICITY:

Not available

IRRITATION:

Not available

Polyols:

TOXICITY:

Not available

IRRITATION:

Not available

1-Butoxy-2-propanol:

TOXICITY:

dermal (rat) LD50: >2000 mg/kg[1]

Inhalation (rat) LC50: >1997.718 mg/l/8hE

Oral (rat) LD50: >2000 mg/kg

IRRITATION: Eye (rabbit): Not Available

SECTION 12: ECOLOGICAL INFORMATION

No environmental hazard is anticipated provided that the material is handled and disposed of with due care and attention.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste should be disposed of according to local, state, and federal regulations. Chemical residues are generally classified as special waste, and as such are covered by regulations which vary according to location. Contact your local waste disposal authority for advice or pass to a chemical disposal company. Dispose of containers with care.

SECTION 14: TRANSPORT INFORMATION**[SIGNAL WORD & DOT SYMBOL]**

	UN Number	UN Proper Shipping Name	Transport Hazard Class(es)	Packing Group	Environmental Hazards
DOT	Not dangerous goods	Not dangerous goods	Not dangerous goods	Not dangerous goods	Not dangerous goods
IMO/IMDG	Not dangerous goods	Not dangerous goods	Not dangerous goods	Not dangerous goods	Not dangerous goods
IATA/CAO	Not dangerous goods	Not dangerous goods	Not dangerous goods	Not dangerous goods	Not dangerous goods

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code.

SECTION 15: REGULATORY INFORMATION

15.1 The product is classified and labeled according to Regulation (EC)No. 1272/2008 (GHS/CLP).

15.2 Safety, health and environmental regulation/legislation specific for the substance or mixture Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances.

Not applicable

15.3 All ingredients are listed in IECSC, or exempted, or confirmed by suppliers.

SECTION 16: OTHER INFORMATION

Personal Protection: Safety goggles, neoprene rubber gloves, vapor respirator

Prepared by Kretus, Inc.

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Revision Note Reformatting

Disclaimer

The information and recommendations presented herein are accurate to the best of our knowledge. User must conduct their own tests to determine the suitability of these products for their particular purposes and usage. Because of numerous factors affecting results, KRETUS® and its affiliation makes no warranty of any kind, express or implied, including those of merchantability and fitness for purpose, other than material conforms to our applicable current specifications. KRETUS® assumes no legal responsibility for use or reliance on the information contained in this safety data sheet.