



KRETUS®

Safety Data Sheet

SECTION 1: IDENTIFICATION

Product Name: KRETUS® POLY PATCH PART B, EZ or FC (formerly known as KRETUS® POLY JOINT FILLER PART B)

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

Acute Toxicity: Inhalation: Category 4

Skin corrosion/irritation: Category 2

Serious Eye Damage/ Eye irritation: Category 2A

Respiratory Sensitization: Category 1

Skin Sensitization: Category 1

Specific Target Organ Toxicity (single exposure) [respiratory tract irritation]: Category 3

DANGER

Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation.



Prevention:

Use only outdoors or in a well-ventilated area. Avoid breathing vapor.

Wear protective gloves / protective clothing / eye protection / face protection. Wash thoroughly after handling.

Contaminated work clothing should not be allowed out of the work place.

Avoid release to the environment.

Response:

IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice / attention.

Storage: Keep container tightly closed and locked in a cool, well-ventilated place.

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.

GENERAL INFORMATION: Read the entire SDS for a more thorough evaluation of the hazards.

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)
4,4'-Diphenylmethane Diisocyanate	101-68-8	TRADE SECRET
Propylene Carbonate	108-32-7	TRADE SECRET

SECTION 4: FIRST-AID MEASURES**Contact with Eyes**

Check for and remove any contact lenses. Immediately flush eyes with plenty of running tepid water for 15 minutes, occasionally lifting the upper and lower eyelids. If effects occur get medical attention immediately.

Contact with Skin

Wash immediately with warm soapy water. Corn oil may be more effective than soap and water. Get medical attention if irritation develops. Wash clothing before re-use. Discard personal items that cannot be decontaminated.

Inhalation

Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical attention immediately. Loosen clothing such as collar, tie, belt or waistband.

Ingestion

Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Notes to Physician: No specific treatment. Treat symptomatically. Call poison control center if large quantities have been ingested.

Symptoms of exposure:

Eye contact: Irritation, watering, redness and pain.

Skin contact: Irritation, redness, itching.

Inhalation: Dizziness, difficulty breathing if fumes are highly concentrated. Ingestion: No specific data, may cause irritation.

SECTION 5: FIRE-FIGHTING MEASURES

Flammable classification: Combustible liquid IIIB

Flash point: >110°C Closed Cup (Setaflash)

Suitable Extinguishing Media

Carbon dioxide, foam, dry chemical.

NOT Suitable

Water may be used if no other available and then in copious quantities. Reaction between water and hot isocyanate may be vigorous.

Special Risks

Combustion products may include: carbon monoxide, carbon dioxide, nitrogen oxides, hydrocarbons and HCN. In a fire or if heated, pressure will increase in containers which may burst.

Special Protective Equipment for Fire-Fighting

Use protective fire fighting clothing and positive pressure self-contained breathing apparatus (SCBA) to protect against potential harmful and/or irritating fumes. Do not use high volume water jet as this may spread the area of the fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES**Personal Precautions**

Isolate area; keep unnecessary and unprotected personnel away from spill area. Avoid contact with skin, eyes and clothing. Use appropriate safety equipment. No health effects expected from the cleanup of this material if contact can be avoided. Provide adequate ventilation.

Environmental Precautions:

Avoid disposal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Methods and Materials for Containment and Clean-up:

Contain and absorb large spills with an inert, non-flammable absorbent carrier (such as earth, sand or clay). Shovel or pump into labeled open-top drums or plastic bags for further decontamination if necessary. Apply lids loosely to avoid pressure build-up. Wash the spillage area clean with a mixture of water and non-ionic surfactant or a suitable liquid detergent. (See section 13 for disposal considerations). Notify applicable government authorities if release is reportable. CERCLA RQ for 4,4-MDI is 5,000 lbs.

SECTION 7: HANDLING AND STORAGE**Precautions for Safe-Handling**

Avoid personal contact with the product. Use only with adequate ventilation to ensure that the occupational exposure limit is not exceeded. Regularly monitor the efficiency of the ventilation system. Avoid breathing aerosols, mists and vapors. (See section 8 Exposure control for details). Keep stocks of de-contaminant readily available.

Conditions for Safe Storage

Keep containers tightly closed and store in a cool, dry well ventilated area at 68-86F.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION**Exposure/Environmental Controls**

Diphenylmethane 4,4'-diisocyanate:

ACGIH TLV (TWA): 0.005 ppm 8 hrs.

CEIL: 0.02 ppm

CEIL: 0.2 mg/m³

Engineering Controls

Ventilation through local exhaust if appropriate.

Eye/face protection: Safety glasses, goggles, face mask as appropriate.

Skin & hand protection: Protective clothing as necessary to guard against product contact. PVC, neoprene or nitrile rubber gloves, safety shoes.

Respiratory protection: Not needed under normal use conditions under adequate ventilation.

Other protective equipment: Eye wash stations and emergency showers should be available. The type and degree of personal protective equipment will depend on the specific work operation.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid; Clear, Pale Yellow
Odor	Slightly Musty
Odor Threshold	No Data Available
pH	No Data Available
Melting/Freezing Point	No Data Available
Initial Boiling Point and Boiling Range	>300°C Decomposes
Flash Point	>110°C Closed Cup (Setaflash)
Evaporation Rate	No Data Available
Flammability	No Data Available
Upper/Lower Flammability or Explosive Limits	No Data Available
Auto-ignition Temperature	>600oc
Vapor Pressure	No Data Available
Vapor Density	No Data Available
Relative Density/Specific Gravity	1.2 Grams / Cc
Solubility(ies)	Insoluble, Reacts Slowly with Water to Liberate CO2 Gas
Partition Coefficient: n-octanol/water	No Data Available
Decomposition Temperature	No Data Available
Viscosity	No Data Available
VOC (Volatile Organic Compounds)	<50 g/L

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability: Stable at room temperature.

Reactivity: Reacts with water producing carbon dioxide gas. Exothermic reaction with materials containing active hydrogen groups.

Chemical Incompatibility: TK

Conditions to be avoided: Water, alcohol, amines, strong bases and acids.

Incompatible materials: Water, alcohols, amines, bases and acids.

Hazardous polymerization: May occur under certain conditions of storage and use..

Conditions to avoid:

Hazardous decomposition products: Carbon monoxide, carbon dioxide, nitrogen oxides, hydrocarbons and HCN.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Inhalation Toxicity: LC50: 0.49 mg/l, (rat- male/female)

Acute Dermal Toxicity: LD50: >9,000 mg/kg (rabbit- male/female)

Conclusion/Summary: Irritating to respiratory system.

SECTION 12: ECOLOGICAL INFORMATION

Acute Toxicity: EC50 24 hours static, >1000 mg/l (daphnia)

Acute Toxicity: LC50 96 hours static, >1000 mg/l (fish)

Persistence and degradability: Based on stringent OECD test guidelines, this material cannot be considered as readily biodegradable; however, these results do not necessarily mean that the material is not biodegradable under environmental conditions.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods: Do not dump into any sewers, on the ground, or into any body of water. Significant quantities of waste product residues should be processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local requirements.

Container disposal: Drain container of all residual material prior to disposal.

SECTION 14: TRANSPORT INFORMATION

Single containers less than 5,000 lbs. are not regulated.

	UN Number	UN Proper Shipping Name	Transport Hazard Class(es)	Packing Group	Environmental Hazards
DOT	NA3082	OTHER REGULATED SUBSTANCES, LIQUID, N.O.S. (contains 4,4'-Diphenylmethane Diisocyanate)	9	III	None known
IMO/IMDG	Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
IATA/CAO	Not regulated	Not regulated	Not regulated	Not regulated	Not regulated

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

Reportable Quantity: 5,000 lbs. Single containers less than 5,000 lbs. are not regulated.

SECTION 15: REGULATORY INFORMATION**Safety health and environmental regulations/legislation:**

SARA Section 311/312: Immediate (acute) health hazard.

CERCLA Hazardous Substances Listed: Diphenylmethane 4,4' diisocyanate RQ: 5,000 lbs. TSCA 8(b) Inventory status: All components are listed or exempted.

TSCA 5(a) 2 final (SNUR) : No ingredients listed.

Canadian CEPA DSL Status: All components are listed or exempt.

Canadian WHMIS Classification: Class D-2A, Material causing other toxic effects (very toxic). Class D-2B, Material causing other toxic effects (toxic).

OSHA/NTP/IARC Carcinogen Status: Not listed.

California Prop 65: This product contains no listed substances known to the State of California to cause cancer, birth defects or reproductive harm, at levels which would require a warning under the statute.

Pennsylvania - RTK: Dimethylmethane 4,4' diisocyanate

SECTION 16: OTHER INFORMATION

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

Prepared by Kretus, Inc.

Revision Date 1/16/23

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.