



Basic-Crete Urethanes - Epoxies - MMAs

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Basic-Crete Part B Hardener

Product Name: Basic-Crete Slurry, Slurry HT, Mortar, TC, Cove, and TR

HAZARDOUS COMPONENTS	CAS NO.	EXPOSURE LIMITS*			CONTENT
		TLV	STEL	PEL	
Higher Oligomers of MDI (HOMDI)	9016-87-9	0.005 ppm	None	0.02 ppm	>90%
Contains 4,4'-Diphenylmethane Diisocyanate	101-68-8	0.005 ppm	None	C 0.02 ppm	> 25%

(*) Refer to Section 7 for available LD/LC (50) Health Hazard Data.

PHYSICAL CHARACTERISTICS:

Boiling Point (°C):	ca. 200	Water/Oil Distribution	
Percent VOC (w/w):	ca. 0	Coefficient:	N/Av
Freezing Point (°C):	N/Av	Solubility in Water:	None
Vapor Pressure mmHg @ 20 (°C):	<0.001	Specific Gravity:	1.2
Vapor Density:	ca. 8.6	pH	N/Av
Odor Threshold: (ppm)	0.4ppm	Evaporation Rate: (Ether=1)	<1
Appearance: Black/brown liquid		Odor: Slightly musty	
N/Av = Not Available	N/Av = Not Applicable		ca. = Approximate

FIRE AND EXPLOSION HAZARD DATA: HMIS Hazard Rating No. 1 (Slight)

Flash Point: >218 °C (425 °F) **Method:** Cleveland O.C

Auto-Ignition Temperature: 240 °C (464 °F)

Limits of Flammability: LEL: Not Available UEL: Not Available

Extinguishing Media: Carbon dioxide, foam, dry chemical & halogenated agents. The reaction between water and very hot isocyanate may be vigorous.

Special Fire & Unusual Hazards: Down wind personnel must be evacuated. At higher temperature vapors can cause pressure build up in sealed containers. Use water to cool containers exposed to fire. At temperatures greater than 204 °C (400 °F) polymeric MDI can polymerize and decompose, causing pressure build up in closed containers with possible explosive rupture. Self-contained respirator equipment and full protective clothing required when smoke or fumes are generated. Electrical grounding is not recommended.

REACTIVITY DATA: HMIS Hazard Rating No. 1 (Slight)

Stability: Avoid contact with moisture, reacts nonviolently, evolving CO₂. Not sensitive to mechanical impact. Excessive heat, fumes and smoke can occur if this product is not mixed and used according to directions.

Incompatibility: Strong acids, peroxides, amines, oxidizing, and reducing agents, water, and alcohol may initiate polymerization possibly hazardously; sources of ignition.

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REACTIVITY DATA:

Hazardous Decomposition Products: Oxides of carbon and nitrogen; MDI, ammonia, trace amounts of hydrogen cyanide and various unknown hydrocarbons from incomplete combustion.

Hazardous Polymerization: Will not occur when handles per instructions.

HEALTH HAZARD DATA: HMIS Hazard Rating No. 3 (Severe)

PRIMARY ROUTE OF ENTRY: Inhalation, Dermal, Eyes, Ingestion

Effects of Overexposure

Inhalation: Vapors may be irritating to nose and mucus membranes. Respiratory sensitivity may result in asthma-like symptoms and on subsequent exposure even below the TLV. Inhalation of vapors above TLV levels may cause headache, dizziness, nausea, weakness and possible loss of consciousness.
Warning: Odor threshold greater than TLV.

LC (50) Inhal. CASRN 9016-87-9 490 mg/m³ 4Hr. Rat.

Eyes: Contact may cause mild to moderate irritation, redness, tearing and blurred vision. Prolonged contact with vapors may cause corneal damage.

Skin Contact: Prolonged or repeated exposure can cause irritation, redness, skin damage and possible allergic type symptoms causing rash, itching and hives. Data exists showing that repeated dermal exposure can lead to respiratory sensitization.

Skin Absorption: Not expected to be absorbed through skin in sufficient quantity to cause overall increase in toxicity.

LD(50) Dermal CASRN 9016-87-9 6200 mg/kg Rabbit.

Ingestion: Intake can cause gastrointestinal irritation, nausea, vomiting, diarrhea, headache and drowsiness.

LD (50) Oral CASRN 9016-87-9 >10 gm/kg Rat.

Chronic: Product does not contain carcinogenic materials as defined by OSHA Hazardous Communications Act 1910.1200.

Materials are not known mutagenic, teratogenic, or reproductive health hazards.

One scientific study of workers reported that exposure of isocyanates type chemicals resulted in larger declines in lung function compared to other workers

FIRST AID:

Ingestion: Do **NOT** induce vomiting; give large quantities of water; get immediate medical attention. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquids into lungs. Do **NOT** give anything by mouth to an unconscious person.

Eyes: Flush eyes with water, lifting upper and lower lids occasionally for 15 minutes. Seek medical attention.

Skin: Remove contaminated clothing. Wash thoroughly with soap and water. If irritation persists seek medical attention. Wash contaminated clothing before reuse.

Inhalation: Remove victim from exposure. If difficulty with breathing, administer oxygen. If breathing has stopped administer artificial respiration, preferably mouth-to-mouth. Seek medical attention.

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ENVIRONMENTAL AND DISPOSAL INFORMATION:

Action to Take for Spills/Leaks: Ventilate area, eliminate all sources of ignition. Prevent from entering sewers and waterways. Wear skin, eye, and respiratory protection during cleanup. Soak up material with absorbent material and shovel into chemical waste container. Cover container but do **NOT** seal and remove from area. Wash down area with a mixture of liquid detergent (0.2%-0.5%) and ammonium hydroxide (3-8%) in water. Treat the spill area with about 10 parts of solution for each part of material spilled and allow it to react for at least ten (10) minutes. Carbon dioxide will be evolved, leaving insoluble polyureas. Slowly stir the isocyanate waste into the decontamination solution, at about 1 part waste to 10 parts solution. Let stand for 48 hours, allowing carbon dioxide to vent away. Neutralize the waste. Neither the solid nor the liquid portion is hazardous waste under RCRA, 40 CFR 261.

Waste Disposal Method: Recommendations: Use excess product in an alternate beneficial applications. Incineration at agency approved waste-disposal facilities. Handle disposal of waste material in accordance with local, state, province and federal regulation.

PROTECTION INFORMATION:

Ventilation: Ventilation is recommended. Air movement must be designed to insure turnover at all locations in work area to avoid build up of heavy vapors.

Personal Protection Equipment: Do **NOT** wear contact lenses when working with this material. Use chemical goggles/safety glasses with side shields and Rubber/Nitrile gloves. Selection of specific items such as boots and apron will depend on operation. Wear respirator protection whenever airborne concentrations exceed TLV or TWA limits. Use NIOSH/OSHA approved respirators equipped with an organic vapor cartridge for listed hazard.

Confined spaces, rooms, or tanks are areas where concern for TLV's is especially important. Reference OSHA Regulation CFR 29 1910.134 for recommended respiratory protection.

SUPPLEMENTAL INFORMATION:

Average Shelf Life: Refer to Product Data Sheet.

Special Instructions: Store below 25 °C (77 °F), use immediately.

REGULATORY INFORMATION:

Title III Section 302: CASRN 101-68-8 RQ: 5000 LB

Title III Section 311/312: Health hazard: Immediate
Delayed
Physical hazard: Reactive

Title III Section 313: CASRN 101-68-8 > 45%

State: California No reportable chemicals.

WHMIS Classification: Class D, Div. 1, Sub B
Class D, Div. 2, Sub A
Class D, Div. 2, Sub B

Canadian Domestic Substance List: All chemicals are listed.

TRANSPORT

NATIONAL Motor Freight Classification (NMFC): 149980 Sub: - Class: 55

Description: PAINT AND RELATED MATERIAL

Emergency Response Guide Page No.: NOT REGULATED

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SUPPLEMENTAL INFORMATION: TRANSPORT

DOT Reportable Quantity: >11,100 LB (>5045 KG)

Proper Shipping Name: NOT REGULATED – USE NMFC DESCRIPTION

Marine Pollutant: NL

P = Moderate WS = Water Sheen ND = Not Determined

PP = Severe NL = Not Listed

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Emergency contact : **800-424-9300 (ChemTrec Emergency Response, USA)**