

Product Identification

Section 1

Product Identifier R0-149
Product Name Florothane CRU Part A
Synonyms CRU
Product Usage Floor coating
Company Crawford Laboratories, Inc
1120 W Exchange
Chicago, IL 60609
Phone 773-376-7132
Chemtrec 800-424-9300

Hazard Identification

Section 2

GHS Classifications Skin sensitivity: Category 1,
Acute toxicity: Category 4,
STOT (Respiratory) Single Exposure: Category 3,
Respiratory sensitization: Category 1,
Aquatic Chronic: Category 2,
Flammable liquid: Category 1

Signal Word **Danger**

Pictograms



Hazard Statements H224 Extremely flammable liquid and vapor
H317 May cause an allergic skin reaction
H332 Harmful if inhaled
H335 May cause respiratory irritation
H336 May cause drowsiness or dizziness
H411 Toxic to aquatic life with long lasting effects

Precautionary Statements P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P331 Do NOT induce vomiting.
P260 Do not breathe dust/fume/gas/mist/vapors/spray.
P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P285 In case of inadequate ventilation wear respiratory protection.

P301+P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor

P302+P352 If ON SKIN: Wash with plenty of water.

P333+313 If skin irritation or rash occurs: Get medical attention.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

Additional Hazard Information

Percentage of mixture with unknown Acute Toxicity:
None

This product contains less than 0.5% Hexamethylege-1,6-Disocyanate with an average of 0.005 ppm.

Composition Information of Ingredients

Section 3

Component	CAS No.	Weight %
Aliphatic Polyisocyanate	28182-81-2	40-60
TBA	540-88-5	40-60

Where a range is displayed or the exact percentage of the component in the composition has been withheld it is considered a trade secret.

Ingredients not listed on this SDS are considered to be non-hazardous.

First Aid Measures

Section 4

General	Consult a physician. Show the physician this SDS. Move out of dangerous area immediately. Take off all contaminated clothing immediately.
Inhalation	Move person to fresh air and breathe normally. If experiencing respiratory symptoms. Call POISON CENTER or doctor.
Eyes	Rinse cautiously with water for several minutes. Remove contact lenses if present. If eye irritation persists get medical attention.
Ingestion	Immediately call POISON CENTER or physician. DO NOT induce vomiting. Do not eat, taste, or ingest. Rinse mouth if person is conscious.
Skin	Take off all contaminated clothing. Rinse skin with water. Wash with soap and water. If skin irritation or rash occurs get medical attention.
Acute	Skin irritation, respiratory irritation
Delayed	Repeated exposure may cause skin irritation. Symptoms may be

delayed for several hours upon exposure. Seek immediate medical attention.

Fire Fighting Measures

Section 5

Extinguishing Media	Carbon dioxide (CO ₂), Foam, extinguishing powder, in cases of larger fires, water spray should be used.
Extinguishing Methods	Water may be used to keep exposed containers cool, and to keep flammable structures wet. Do not use a high volume water jet.
Special Protective Equipment	Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask. During fire-fighting respirator with independent air-supply and airtight garment is required. Do not allow contaminated extinguishing water to enter the soil, ground-water or surface waters.
Special hazards	Carbon monoxide may form from incomplete combustion. Burning releases carbon monoxide, carbon dioxide, oxides of nitrogen, formaldehyde, isocyanate vapors and traces of hydrogen cyanide. In the event of fire and/or explosion do not breathe fumes.
Important additional information	Containers may explode upon exposure to excessive heat and fire situations. Sealed containers may explode if overheated. Water may be used to keep exposed containers cool, and to keep flammable structures wet. Do not enter fire area without proper protection because hazardous decomposition products may be present.

Accidental Release Measures

Section 6

Personal precautions	<i>Protective equipment:</i> If air test dictates wear approved protective respirator, safety goggles, and chemical resistant gloves. Ensure adequate ventilation. Avoid breathing dust, vapors, spray, and fumes. Avoid skin contact. <i>Emergency procedures:</i> Evacuate personnel to safe areas. Call CHEMTREC at 1-800-424-9300 for assistance and advice
Methods for clean up and disposal	Ventilate the contaminated area. Collect the material using absorbents or other equipment required by the size of the release. Decontaminate the area, collecting any cleaning and rinsing media for proper reclamation or disposal. Soak up with an absorbent and place in non-

leaking containers. Seal tightly for disposal according to local and federal regulations.

Do not allow to escape into waterways, wastewater or soil.

Handling and Storage

Section 7

Precautions for safe handling As with any chemical product, use good laboratory/workplace procedures. Use under well-ventilated conditions. Wash thoroughly after handling this product. Always wash hands and skin before eating, smoking or using the facilities.

Avoid eye and skin contact. Avoid drinking, tasting, swallowing or ingesting this product. Wash contaminated clothing before reuse. Discard shoes contaminated with this product. Do not breathe vapors or dust.

Avoid formation of dust and aerosols.

Conditions for safe storage, including incompatibilities Protect container from physical abuse. Keep the container tightly closed. Store in dry well-ventilated areas. Store this material away from incompatible substances (see section 10). Do not store in open, unlabeled or mislabeled containers. Do not reuse empty containers.

Exposure Controls/Personal Protection

Section 8

Component	CAS#	ACGIH/TLV	OSHA/PEL	*V/P
Aliphatic Polyisocyanate	28182-81-2	0.5 STEL = 1.0	N/D	N/D
TBA	540-88-5	724 mg/m3	966 mg/m3	143

**Vapor Pressure limit*

Engineering Controls

Local Ventilation Highly recommended. Use local and general engineering controls.

Personal Protective Equipment

Eye/Face protection Protective safety goggles and/or face shield. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection Handle with Neoprene gloves. Polyvinyl or Teflon gloves are recommended. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin

contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

If using in a poorly ventilated area, wear a properly fitted respirator (NIOSH approved) during exposure.

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

General Hygiene Considerations

Do not eat, drink, or smoke in areas where this material is used. Wash thoroughly after handling. Wash hands before eating, smoking, or touching the facial area.

Physical/Chemical Properties

Section 9

Physical state	Liquid
Appearance	Clear
Odor	N/D
Flashpoint	>43 F
Boiling range	208 F
Vapor density	Heavier than air
Liquid density	Lighter than water
Volatiles volume	0%
Evaporation Rate	n-Butyl Acetate
pH	N/D
Vapor pressure	N/D
Relative density	.981
Solubility	Insoluble
Partition coefficient	N/D
Auto Ignition temp	N/D

Stability and Reactivity

Section 10

Chemical stability	Stable
Hazardous reactions	Contact with moisture, other materials that react with isocyanates Temperatures above 350 F which could cause polymerization
Conditions to avoid	Avoid spaying this material. Do not heat. Do not freeze.
Incompatible materials	Water, Amines, Strong bases, Alcohols, Copper alloys

Hazardous decomposition products

Toxic fumes at decomposition temperatures. Such as carbon dioxide, carbon monoxide, oxides of nitrogen

Possibly Hydrogen Cyanide

Toxicological Information

Section 11

Name	CAS#	Oral LD50	Dermal LD50	Vapor LC50
Aliphatic Polyisocyanate	28182-81-2	> 2,500 mg/kg (Rat)	> 2,000 mg/kg (rabbit)	390-453 mg/m ³ , 4 h (Rat)
TBA	540-88-5	10760 mg/kg (Rat)	> 14112 mg/kg (Rabbit)	23,4 mg/l(4h) (Rat)

Routes of Exposure Inhalation, skin, eyes, ingestion

Symptoms of Exposure *Acute:* Runny nose, sore throat, coughing, chest discomfort, shortness of breath and reduced lung function (breathing difficulty).

Chronic: Asthma, difficulty breathing, skin irritation

Carcinogenicity N/D

Ecological Information

Section 12

Keep out of sewers, drainage areas, and waterways. Report spills and atmospheric releases, as applicable, under Federal and State regulations.

Disposal Considerations

Section 13

Dispose of container and unused contents in accordance with federal, state, and local requirements for hazardous materials.

Transport Information

Section 14

DOT Proper Shipping	
Name:	Paint
Packing Group:	II
DOT Hazard Class:	3
DOT UN/NA Number:	UN1263

Regulatory Information

Section 15

Contact manufacturer for information on specific territorial regulatory information.

Other Information

Section 16

NFPA/HMIS Rating

Health 1

Fire 3

Reactivity 0

The information provided in this **Safety Data Sheet** is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal, and release. It is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process unless specified in the text.

Publication Date

2-02-2015