



MATERIAL SAFETY DATA SHEET

Section 1: Product & Company Identification

Product Name: Red Urethane RTL

Product Number (s): R0513

Product Use: Electrical coating

Manufacturer / Supplier Contact Information:

In United States:

CRC Industries, Inc.

885 Louis Drive

Warminster, PA 18974

www.crcindustries.com

1-215-674-4300 (General)

(800) 521-3168 (Technical)

(800) 272-4620 (Customer Service)

In Canada:

CRC Canada Co.

2-1246 Lorimar Drive

Mississauga, Ontario L5S 1R2

www.crc-canada.ca

1-905-670-2291

In Mexico:

CRC Industries Mexico

Av. Benito Juárez 4055 G

Colonia Orquídea

San Luís Potosí, SLP CP 78394

www.crc-mexico.com

52-444-824-1666

24-Hr Emergency – CHEMTREC: (800) 424-9300 or (703) 527-3887

Section 2: Hazards Identification

Emergency Overview

DANGER: Extremely Flammable. Harmful or Fatal if Swallowed. Vapor Harmful.
Appearance & Odor: Red viscous liquid, solvent odor.

Potential Health Effects:

ACUTE EFFECTS:

EYE: Direct contact with this material causes eye irritation. High vapor concentrations may also irritate eyes. Symptoms include stinging, tearing, redness and swelling.

SKIN: Mildly irritating. Prolonged or repeated skin contact can result in defatting and drying of the skin, and occasionally blistering

INHALATION: Inhalation of vapor may cause irritation to the respiratory tract. High vapor concentrations may cause central nervous system depression.

INGESTION: Swallowing a small amount is not likely to cause harmful effects. Swallowing a large amount may be harmful. This material can enter the lungs during swallowing or vomiting and cause lung inflammation and/or lung damage.

CHRONIC EFFECTS: Repeated overexposure may damage central nervous system and may result in permanent brain damage.

TARGET ORGANS: liver, kidney

Medical Conditions Aggravated by Exposure: respiratory and skin conditions

See Section 11 for toxicology and carcinogenicity information on product ingredients.

Section 3: Composition/Information on Ingredients

COMPONENT	CAS NUMBER	% by Wt.
Acetone	67-64-1	30 – 40
Hexane isomers	64742-49-0 / 107-83-5	15 – 25
Oil modified urethane	proprietary	15 – 25
Xylene	1330-20-7	10 – 20
Red oxide pigment	1332-37-2	2 - 6
Ethylbenzene	100-41-4	3.7
n-hexane	110-54-3	0.6

Section 4: First Aid Measures

- Eye Contact:** Immediately flush with plenty of water for 15 minutes. Call a physician if irritation persists.
- Skin Contact:** Remove contaminated clothing and wash affected area with soap and water. Call a physician if irritation persists. Wash contaminated clothing prior to re-use.
- Inhalation:** Remove person to fresh air. Keep person calm. If not breathing, give artificial respiration. If breathing is difficult give oxygen. Call a physician.
- Ingestion:** Do NOT induce vomiting. Contact a physician immediately. Give victim a glass of water to drink. Do not give anything by mouth to an unconscious person.
- Note to Physicians:* Aspiration hazard. A component of this material has produced hyperglycemia and ketosis following substantial ingestion.

Section 5: Fire-Fighting Measures

Flammable Properties: This product is extremely flammable in accordance with aerosol flammability definitions. (See 16 CFR 1500.3(c)(6)).

Flash Point: < 20°F / -7°C (TCC)	Upper Explosive Limit: 10.0 (estimate)
Autoignition Temperature: 490°F / 254°C	Lower Explosive Limit: 1.0 (estimate)

Fire and Explosion Data:

Suitable Extinguishing Media: Alcohol foam, dry chemical, carbon dioxide or any Class B fire extinguisher

Products of Combustion: Fumes, smoke and oxides of carbon

Explosion Hazards: Aerosol containers, when exposed to heat from fire, may build pressure and explode. Vapors may accumulate in a confined space and create a flammable atmosphere.

Protection of Fire-Fighters: Firefighters should wear self-contained, NIOSH-approved breathing apparatus for protection against suffocation and possible toxic decomposition products. Proper eye and skin protection should be provided. Use water spray to keep fire-exposed containers cool and to knock down vapors which may result from product decomposition.

Section 6: Accidental Release Measures

Personal Precautions: Use personal protection recommended in Section 8.

Environmental Precautions: Take precautions to prevent contamination of ground and surface waters. Do not flush into sewers or storm drains.

Methods for Containment & Clean-up: Eliminate all sources of ignition. Dike area to contain spill. Ventilate the area with fresh air. If in confined space or limited air circulation area, clean-up workers should wear appropriate respiratory protection. Recover or absorb spilled material using an absorbent designed for chemical spills. Place used absorbents into proper waste containers.

Section 7: Handling and Storage

Handling Procedures: Avoid inhaling vapors. Use in well ventilated area. Do not use near open flame, sparks or other sources of ignition. Do not use on energized equipment. Use proper grounding and bonding techniques when transferring material. For product use instructions, please see the product label.

Storage Procedures: Store in a cool dry area out of direct sunlight. Containers should be tightly closed while in storage.

Aerosol Storage Level: NA

Section 8: Exposure Controls/Personal Protection

Exposure Guidelines:

COMPONENT	OSHA		ACGIH		OTHER		UNIT
	TWA	STEL	TWA	STEL	TWA	SOURCE	
Acetone	750 (v)	1000 (v)	500	750	NE		ppm
Hexane isomers	500 (v)	1000 (v)	500	1000	NE		ppm
Oil modified urethane	NE	NE	NE	NE	NE		
Xylene	100	NE	100	150	NE		ppm
Red oxide pigment	NE	NE	NE	NE	NE		
Ethylbenzene	100	NE	100	125	NE		ppm
n-hexane	500	NE	50 (s)	NE	NE		ppm
N.E. – Not Established (c) – ceiling (s) – skin (v) – vacated							

Controls and Protection:

Engineering Controls: Area should have ventilation to provide fresh air. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at the source, preventing dispersion into the general work area. Use mechanical means if necessary to maintain vapor levels below the exposure guidelines. If working in a confined space, follow applicable OSHA regulations.

Respiratory Protection: None required for normal work where adequate ventilation is provided. If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a NIOSH-approved cartridge respirator with organic vapor cartridge. Air monitoring is needed to determine actual employee exposure levels. Use a self-contained breathing apparatus in confined spaces and for emergencies.

Eye/face Protection: For normal conditions, wear safety glasses. Where there is reasonable probability of liquid contact, wear splash-proof goggles.

Skin Protection: Use protective gloves such as nitrile, rubber, or PVA. Also, use full protective clothing if there is prolonged or repeated contact of liquid with skin.

Section 9: Physical and Chemical Properties

Physical State: liquid, viscous

Color: red

Odor: solvent

Odor Threshold: ND

Specific Gravity: 0.845

Initial Boiling Point: 150°F / 66°C

Freezing Point: ND

Vapor Pressure: ND

Vapor Density: > 1 (air = 1)

Evaporation Rate: fast

Solubility: slight in water

Coefficient of water/oil distribution: ND

pH: NA

Volatile Organic Compounds: wt %: 40.4 g/L: 341.4 lbs./gal: 2.8

Section 10: Stability and Reactivity

Stability: Stable

Conditions to Avoid: Temperature extremes, sources of ignition

Incompatible Materials: Oxidizing materials such as peroxides, chlorates, and permanganates; strong acids or alkalis

Hazardous Decomposition Products: Oxides of carbon and various hydrocarbons

Possibility of Hazardous Reactions: No

Section 11: Toxicological Information

Long-term toxicological studies have not been conducted for this product. The following information is available for components of this product.

Acute Toxicity:

<u>Component</u>	<u>Oral LD50 (rat)</u>	<u>Dermal LD50 (rabbit)</u>	<u>Inhalation LC50 (rat)</u>
Acetone	5800 mg/kg	> 15,800 mg/kg	> 16,000 ppm/4H
Hexane isomers	> 5000 mg/kg	> 2000 mg/kg	No data
Oil modified urethane	No data	No data	No data
xylene	3523 mg/kg	> 2000 mg/kg	6700 ppm/4H
red oxide pigment	No data	No data	No data
ethylbenzene	3500 mg/kg	> 2000 mg/kg	4000 ppm/4H
n-hexane	28,710 mg/kg	> 3000 mg/kg	48,000 ppm/4H

Chronic Toxicity:

<u>Component</u>	<u>OSHA Carcinogen</u>	<u>IARC Carcinogen</u>	<u>NTP Carcinogen</u>	<u>Irritant</u>	<u>Sensitizer</u>
Acetone	No	No	No	Eye	No
Hexane isomers	No	No	No	No	Unknown
Oil modified urethane	No	No	No	Unknown	Unknown
xylene	No	No	No	skin	no
red oxide pigment	No	No	No	Unknown	Unknown
ethylbenzene	No	Group 2B	No	eye, skin	Unknown
n-hexane	No	No	No	skin	no

Reproductive Toxicity: No information available

Teratogenicity: No information available

Mutagenicity: No information available

Synergistic Effects: No information available

Section 12: Ecological Information

Ecological studies have not been conducted for this product. The following information is available for components of this product.

Ecotoxicity: Acetone - 48 Hr EC50 Daphnia magna: 12600 mg/L
n-hexane - 48 Hr EC50 water flea: 3.87 mg/L

Persistence / Degradability: No information available

Bioaccumulation / Accumulation: No information available

Mobility in Environment: No information available

Section 13: Disposal Considerations

Waste Classification: This material is a RCRA hazardous waste for the characteristic of ignitability with a waste code of D001. (See 40 CFR Part 261.20 – 261.33)
If this material is mixed with another material, the resulting waste should be evaluated for waste classification. Empty containers may be recycled.

All disposal activities must comply with federal, state, provincial and local regulations. Local regulations may be more stringent than state, provincial or national requirements.

Section 14: Transport Information

US DOT (ground): UN1993, Flammable liquids, n.o.s. (isohexane, acetone), 3, PGII

ICAO/IATA (air): UN1993, Flammable liquids, n.o.s. (isohexane, acetone), 3, PGII

IMO/IMDG (water): UN1993, Flammable liquids, n.o.s. (isohexane, acetone) , 3, PGII

Special Provisions: None

Section 15: Regulatory Information

U.S. Federal Regulations:

Toxic Substances Control Act (TSCA):

All ingredients are either listed on the TSCA inventory or are exempt.

Comprehensive Environmental Response, Compensation and Liability Act (CERCLA):

Reportable Quantities (RQ's) exist for the following ingredients: acetone (5000 lbs), xylene (100 lbs)
n-hexane (5000 lbs), ethylbenzene (1000 lbs)

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.

Superfund Amendments Reauthorization Act (SARA) Title III:

Section 302 Extremely Hazardous Substances (EHS): None

Section 311/312 Hazard Categories:

Fire Hazard	Yes
Reactive Hazard	No
Release of Pressure	No
Acute Health Hazard	Yes
Chronic Health Hazard	Yes

Section 313 Toxic Chemicals: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:
xylene (<15%), ethylbenzene (3.7%), n-hexane (0.6%)

Clean Air Act:

Section 112 Hazardous Air Pollutants (HAPs): xylene, ethylbenzene, n-hexane

Occupational Safety and Health Administration:

This product is regulated by the Hazard Communications Standard.

U.S. State Regulations:

California Safe Drinking Water and Toxic Enforcement Act (Prop 65):

This product may contain the following chemicals known to the state of California to cause cancer, birth defects or other reproductive harm: ethylbenzene

Consumer Products VOC Regulations: This product is not regulated.

State Right to Know:

New Jersey: 110-54-3, 67-64-1, 8052-41-3, 64742-49-0, 1330-20-7, 100-41-4
Pennsylvania: 110-54-3, 67-64-1, 8052-41-3, 64742-49-0, 1330-20-7, 100-41-4
Massachusetts: 110-54-3, 67-64-1, 8052-41-3, 64742-49-0, 1330-20-7, 100-41-4
Rhode Island : 110-54-3, 67-64-1, 8052-41-3, 64742-49-0, 1330-20-7, 100-41-4

Canadian Regulations:

Controlled Products Regulations:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

WHMIS Hazard Class: B2, D2A, D2B

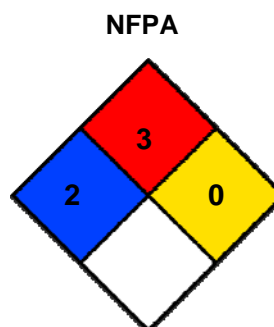
Canadian DSL Inventory: All ingredients are either listed on the DSL Inventory or are exempt.

European Union Regulations:

RoHS Compliance: This product is compliant with Directive 2002/95/EC of the European Parliament and of the Council of 27 January 2003. This product does not contain any of the restricted substances as listed in Article 4(1) of the RoHS Directive.

Additional Regulatory Information: None**Section 16: Other Information**

HMIS® (II)	
Health:	2
Flammability:	3
Reactivity:	0
PPE:	B



Ratings range from 0 (no hazard) to 4 (severe hazard)

Prepared By: Michelle Rudnick
 CRC #: 507B
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Changes since last revision: Section 3 - composition

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. This information is accurate to the best of CRC Industries' knowledge or obtained from sources believed by CRC to be accurate. Before using any product, read all warnings and directions on the label. For further clarification of any information contained on this MSDS consult your supervisor, a health & safety professional, or CRC Industries.

ACGIH: American Conference of Governmental Industrial Hygienists
 CAS: Chemical Abstract Service
 CFR: Code of Federal Regulations
 DOT: Department of Transportation
 DSL: Domestic Substance List
 g/L: grams per Liter
 HMIS: Hazardous Materials Identification System
 IARC: International Agency for Research on Cancer
 IATA: International Air Transport Association
 ICAO: International Civil Aviation Organization
 IMDG: International Maritime Dangerous Goods
 IMO: International Maritime Organization
 lbs./gal: pounds per gallon
 LC: Lethal Concentration
 LD: Lethal Dose

NA: Not Applicable
 ND: Not Determined
 NIOSH: National Institute of Occupational Safety & Health
 NFPA: National Fire Protection Association
 NTP: National Toxicology Program
 OSHA: Occupational Safety and Health Administration
 PMCC: Pinsky-Martens Closed Cup
 PPE: Personal Protection Equipment
 ppm: Parts per Million
 RoHS: Restriction of Hazardous Substances
 STEL: Short Term Exposure Limit
 TCC: Tag Closed Cup
 TWA: Time Weighted Average
 WHMIS: Workplace Hazardous Materials Information System