



Material Safety Data Sheet

Section 1: Product & Company Identification

Product Name: Electronic Urethane Coating – Clear (aerosol)

Product Number (s): 04060

Manufactured By:

CRC Industries, Inc.
885 Louis Drive
Warminster, PA 18974
www.crcindustries.com

General Information	(215) 674-4300
Technical Assistance	(800) 521-3168
Customer Service	(800) 272-4620
24-Hr Emergency (CHEMTREC)	(800) 424-9300

Section 2: Hazards Identification

Emergency Overview

Appearance & Odor: Clear viscous liquid, solvent odor

DANGER

Extremely Flammable. Harmful or Fatal if Swallowed. Vapor Harmful. Contents Under Pressure.

As defined by OSHA's Hazard Communication Standard, this product is hazardous.

Potential Health 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.

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Section 3: Composition/Information on Ingredients

COMPONENT	CAS NUMBER	% by Wt.
Acetone	67-64-1	20 - 30
Hexane isomers	various	15 - 25
Oil modified urethane	proprietary	10 - 20
Mineral spirits	8052-41-3	10 - 20
1-methoxy-2-propanol acetate	108-65-6	2 - 6
n-hexane	110-54-3	1.2
Liquefied petroleum gas	68476-86-8	25 - 35

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 (16 CFR 1500.3(c)(6)).

Flash Point:	< 20 F (TCC)	Upper Explosive Limit:	8.0 (est)
Autoignition Temperature:	490 F	Lower Explosive Limit:	1.0 (est)

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

Products of Combustion: Fumes, smoke and oxides of carbon.

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.

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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. Use non-sparking tools and equipment for clean-up. 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 such as sand or soil. Place used absorbents into proper waste containers.

Section 7: Handling and Storage

Handling Procedures: Avoid inhaling vapors. Use in a well ventilated area. Do not use near open flame, sparks or other sources of ignition. Do not use on energized equipment.

Storage Procedures: Store in a cool dry area out of direct sunlight. Aerosol cans must be maintained below 120 F to prevent cans from rupturing. Do not store near heat sources or incompatible materials.

Aerosol Storage Level: III

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		
Mineral spirits	500	NE	100	NE	NE		
1-methoxy-2-propanol acetate	NE	NE	NE	NE	NE		
n-hexane	500	NE	50 (s)	NE	NE		ppm
Liquefied petroleum gas	1000	NE	1000	NE	NE		ppm
N.E. – Not Established (c) – ceiling (s) – skin (v) – vacated							

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 an organic vapor cartridge. Use a self-contained breathing apparatus in confined spaces and for emergencies.

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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: clear

Odor: solvent

Specific Gravity: 0.8163

Initial Boiling Point: 120 F

Freezing Point: ND

Vapor Pressure: ND

Vapor Density: > 1 (air = 1)

Evaporation Rate: > 1 (butyl acetate = 1)

Solubility: insoluble in water

pH: NA

Volatile Organic Compounds: wt %: 63.9 g/L: 521.6 lbs./gal: 4.35

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 EFFECTS

<u>Component</u>	<u>Test</u>	<u>Result</u>	<u>Route</u>	<u>Species</u>
Mineral spirits	LD50	> 5 g/kg	Oral	Rat
Acetone	LD50	5,800 mg/kg	Oral	Rat
n-hexane	LD50	28710 mg/kg	Oral	Rat

CHRONIC EFFECTS

Carcinogenicity:

	<u>Component</u>	<u>Result</u>
OSHA:	None listed	
IARC:	None listed	
NTP:	None listed	

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Mutagenicity: 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

Disposal: 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)
Aerosol containers should be emptied and depressurized before disposal. Empty containers may be recycled. Liquids should be collected and handled as hazardous waste.

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

Section 14: Transport Information

Proper shipping description:

US DOT (ground): Consumer Commodity, ORM-D

Special Provisions: None

Section 15: Regulatory Information

U.S. Federal

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)
n-hexane (5000 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

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Reactive Hazard	No
Release of Pressure	Yes
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:
n-hexane (1.2%)

Clean Air Act:

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

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: none

State Right to Know:

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

Additional Regulatory Information: None

Section 16: Other Information

NFPA:	Health: 2	Flammability: 3	Reactivity: 0	
HMIS:	Health: 2	Flammability: 3	Reactivity: 0	PPE: B

Prepared By: Michelle Rudnick
CRC #: 00505B
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Changes since last revision: MSDS reformatted in accordance with ANSI Z400.1-2004

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.

CAS:	Chemical Abstract Service	NA:	Not Applicable
ppm:	Parts per Million	ND:	Not Determined
TCC:	Tag Closed Cup	NE:	Not Established
PMCC:	Pensky-Martens Closed Cup	g/L:	grams per Liter
PPE:	Personal Protection Equipment	lbs./gal:	pounds per gallon
TWA:	Time Weighted Average	STEL:	Short Term Exposure Limit
OSHA:	Occupational Safety and Health Administration		
ACGIH:	American Conference of Governmental Industrial Hygienists		
NIOSH:	National Institute of Occupational Safety & Health		