CRC MATERIAL SAFETY DATA SHEET

Section 1: Product & Company Identification

Product Name: Extreme Duty Silicone (aerosol)

Product Number (s): 03030, 73030

Product Use: Silicone-Based Multi-Purpose Lubricant

Manufacturer / Supplier Contact Information:

In United States: CRC Industries, Inc. 885 Louis Drive Warminster, PA 18974 <u>www.crcindustries.com</u> 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. Contents Under Pressure. As defined by OSHA's Hazard Communication Standard, this product is hazardous. Appearance & Odor: Clear, water-white liquid with mild solvent odor

Potential Health Effects:

ACUTE EFFECTS: EYE: May cause mild irritation including stinging and redness, but does not injure eye. Single, brief exposures may cause mild irritation. Frequent or prolonged contact may cause more SKIN: severe irritation, defatting of the skin, and dermatitis. INHALATION: High vapor concentrations are irritating to the respiratory tract and may cause headaches, dizziness, anesthesia, drowsiness, unconsciousness and other central nervous system effects, including death. May cause peripheral nervous system disorder and/or damage. Low order of toxicity by ingestion. Main hazard is aspiration into the lungs during swallowing or INGESTION: vomiting. Small amounts aspirated into the respiratory system may cause bronchopneumonia or pulmonary adema, possibly progressing to death. Overexposure to n-hexane may cause progressive and potentially irreversible damage to the CHRONIC EFFECTS: peripheral nervous system, particularly in the arms and legs. TARGET ORGANS: central nervous system, peripheral nervous system, respiratory system

Medical Conditions Aggravated by Exposure: skin and respiratory conditions

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

Section 3: Composition/Information on Ingredients

COMPONENT	CAS NUMBER	% by Wt.
Hexane isomers	64742-49-0 / 107-83-5	55 - 65
n-Hexane	110-54-3	< 2
Silicone fluid	proprietary	2 - 5
1,1-Difluoroethane (HFC-152a)	75-37-6	30 - 40

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.
Note to Physicians:	Treat symptomatically. Gastric lavage using a cuffed endotracheal tube may be performed at your discretion.

Section 5: Fire-Fighting Measures

Flammable Properties:	This produ	Loct is extremely flammab	le in accordance with aerosol	flammability definitions.
F Autoignition Ter	lash Point: mperature:	< 0°F / < -17°C (TCC) 489°F / 254°C	Upper Explosive Limit: Lower Explosive Limit:	9.0 1.7
Fire and Explosion Data:				
Suitable Extinguishing Med	lia: Class	B fire extinguishers, dry	chemical, foam or CO ₂	
Products of Combustion:	Fumes, sm	oke and carbon monoxid	de	
Explosion Hazards:	Aerosol con may accum	ntainers, when exposed nulate in a confined spac	to heat from fire, may build pr e and create a flammable atn	essure and explode. Vapors nosphere.
Protection of Fire-Fighters:	Firefight protection skin pro and to k	ers should wear self-cor on against suffocation ar tection should be provide nock down vapors which	ntained, NIOSH-approved bre nd possible toxic decomposition ed. Use water spray to keep n may result from product dec	athing apparatus for on products. Proper eye and fire-exposed containers cool omposition. Do not spray

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.

water directly on fire; product will float and could be reignited on surface of water.

Methods for Containment & Clean-up: Dike area to contain spill. Remove all sources of ignition. 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:	Use proper grounding and bonding procedures for transferring materials. Do not use product near any source of ignition. Avoid contact with eyes and skin. Avoid breathing vapors. Use caution around energized equipment. The metal container will conduct electricity if it contacts a live source. This may result in injury to the user from electrical shock and/or flash fire. For product use instructions, please see the product label.
Storage Procedures:	Store in a cool dry area out of direct sunlight. Aerosol cans must be maintained below 120°F / 49°C to prevent cans from rupturing.

Aerosol Storage Level: III

Section 8: Exposure Controls/Personal Protection

Exposure Guidelines:

	05	SHA	AC	GIH	0	THER	
COMPONENT	TWA	STEL	TWA	STEL	TWA	SOURCE	UNIT
Hexane isomers	500(v)	1000(v)	500	1000	NE		ppm
n-Hexane	500	NE	50(s)	NE	NE		ppm
Silicone fluid	NE	NE	NE	NE	NE		
1,1-Difluoroethane	NE	NE	NE	NE	1000	AIHA	ppm
N.E. – Not Estab	lished	(c) – ceilin	g (s)-	- skin	(v) – vaca	ated	

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, PVC or Viton. 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 Color: clear, water-white

Odor: mild solve	ent				
Odor Threshold:	ND				
Specific Gravity:	0.6699				
Initial Boiling Point:	140°F / 60°C				
Freezing Point:	< -76°F				
Vapor Pressure:	160 mmHg @ 68°F / 20°C				
Vapor Density:	> 1 (air = 1)				
Evaporation Rate:	fast				
Solubility: negligi	ible in water				
Coefficient of water/c	oil distribution: ND				
pH: NA					
Volatile Organic Con	npounds: <u>wt %</u> : 60	<u>g/L</u> :	400.2	lbs./gal:	3.34

Section 10: Stability and Reactivity

Stability: Stable

Conditions to Avoid: Sources of ignition, temperature extremes

Incompatible Materials: Strong oxidizers

Hazardous Decomposition Products: Oxides of carbon

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:

Component	Oral LD50 (rat)	Dermal LD50 (rabbit)	Inhalation LC50 (rat)
Hexane isomers	> 15,000 mg/kg	> 2000 mg/kg	No data
n-Hexane	28,710 mg/kg	3000 mg/kg	48,000 ppm/4H
Silicone fluid	No data	No data	No data
1,1-Difluoroethane	No data	No data	25 ppm/30M

Chronic Toxicity:

	OSHA	IARC	NTP			1
Component	Carcinogen	Carcinogen	Carcinogen		Irritant	Sensitizer
Hexane isomers	No	No	No	Eð	& S (mild)	Unknown
n-Hexane	No	No	No	E, S, I	R (moderate)	Unknown
Silicone fluid	No	No	No	E, S, I	R (moderate)	Unknown
1,1-Difluoroethane	No	No	No		No	Unknown
			E	- Eye	S – Skin	R - Respiratory
Reproductive Toxicity: No i	nformation avails	able				16

 Reproductive Toxicity:
 N

 Teratogenicity:
 N

 Mutagenicity:
 N

 Synergistic Effects:
 N

No information available No information available No information available 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:	n-hexane - 48 Hr EC	50 water flea: 3.87 mg/L
	96 Hr LC	50 Lepomis macrochirus: 4.12 mg/L
Persistence / Degra	dability: No in	nformation available
Bioaccumulation / A	ccumulation: No in	nformation available
Mobility in Environm	nent: No in	formation available

Section 13: Disposal Considerations

Waste Classification:The dispensed liquid product is a RCRA hazardous waste for the characteristic of ignitability
with a waste code of D001. Pressurized containers may be a D003 reactive waste. (See 40
CFR Part 261.20 – 261.33)
Empty aerosol containers may be recycled. Any liquid product should be managed as a
hazardous waste.

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): Consumer Commodity, ORM-D

ICAO/IATA (air): Consumer Commodity, ID8000, 9

IMO/IMDG (water): Aerosols, UN1950, 2.1, Limited Quantity

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: 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

Fire HazardYesReactive HazardNoRelease of PressureYesAcute Health HazardYesChronic Health HazardYes

Section 313 Toxic Chemicals:

Section 311/312 Hazard Categories:

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 (1.8%)

Clean Air Act:

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

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:

hexachlorobenzene (< 0.003%)

<u>Consumer Products VOC Regulations</u>: In states with Consumer Products VOC regulations, this product is compliant as a Silicone-Based Multi-Purpose Lubricant.

State Right to Know:

New Jersey:	75-83-2, 110-54-3, 79-29-8, 75-37-6
Pennsylvania:	107-83-5, 75-83-2, 110-54-3, 79-29-8, 75-37-6
Massachusetts:	107-83-5, 75-83-2, 110-54-3, 79-29-8, 75-37-6
Rhode Island :	110-54-3, 75-37-6
Massachusetts: Rhode island :	107-83-5, 75-83-2, 110-54-3, 79-29-8, 75-37 110-54-3, 75-37-6

Canadian Regulations:

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

WHMIS Hazard Class: A, B5, D2B

European Union Regulations:

<u>RoHS Compliance</u>: 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:			
	3		
Reactivity:	0		
PPE:	В		

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

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Changes since last revision: Added Celsius conversions

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

N1 A	No.4. A collecture
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:	Pensky-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