

SAFETY DATA SHEET

1. Identification

Product identifier	Electrical Silicone Lubricant			
Other means of identification				
Product code	02097			
Recommended use	Electrical silicone-based lubricant			
Recommended restrictions	None known.			
Manufacturer/Importer/Supplie	r/Distributor information			
Manufactured or sold by:				
Company name	CRC Industries, Inc.			
Address	885 Louis Dr.			
	Warminster, PA 18974 US			
Telephone				
General Information	215-674-4300			
Technical	800-521-3168			
Assistance				
Customer Service	800-272-4620			
24-Hour Emergency	800-424-9300 (US)			
(CHEMTREC)	703-527-3887 (International)			
Website	www.crcindustries.com			

2. Hazard(s) identification

Physical hazards	Flammable liquids	Category 2	
Health hazards	Skin corrosion/irritation	Category 2	
	Reproductive toxicity	Category 2	
	Specific target organ toxicity, single exposure	Category 3 narcotic effects	
	Specific target organ toxicity, repeated exposure	Category 2	
	Aspiration hazard	Category 1	
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 2	
	Hazardous to the aquatic environment, long-term hazard	Category 2	
OSHA defined hazards	Not classified.		
Label elements			



Signal word Hazard statement

Highly flammable liquid and vapor. May be fatal if swallowed and enters airways. Causes skin irritation. May cause drowsiness or dizziness. Suspected of damaging fertility or the unborn child. May cause damage to organs (central nervous system, upper respiratory tract, eyes) through prolonged or repeated exposure. Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Precautionary statement	
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Use only with adequate ventilation; maintain ventilation during use and until all vapors are gone. Open doors and windows or use other means to ensure a fresh air supply during use and while product is drying. If you experience any symptoms listed on this label, increase ventilation or leave the area. Do not breathe mist or vapor. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Avoid release to the environment.
Response	If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. If on skin: Wash with plenty of soap and water. If skin irritation occurs: Get medical attention. Take off contaminated clothing and wash before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. If exposed or concerned: Get medical attention. In case of fire: Do not use water jet as an extinguisher, as this will spread the fire. Collect spillage.
Storage	Keep cool. Store in a well-ventilated place. Keep container tightly closed. Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national regulations.
Hazard(s) not otherwise classified (HNOC)	Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Naphtha (petroleum), hydrotreated light		64742-49-0	70 - 80
2-Methylpentane		107-83-5	10 - 20
n-Hexane		110-54-3	3 - 5
Polydimethylsiloxane		63148-62-9	3 - 5
2,2-Dimethylbutane		75-83-2	< 0.2

Specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
Skin contact	Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Get medical attention if irritation develops and persists.
Ingestion	Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Aspiration may cause pulmonary edema and pneumonitis.
Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause temporary irritation. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. May cause redness and pain. Prolonged exposure may cause chronic effects.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
General information	Take off all contaminated clothing immediately. IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

5. Fire-fighting measures

Suitable extinguishing media	Water fog. Foam. Carbon dioxide (CO2). Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical	Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. To reduce potential for static discharge, use proper bonding and grounding procedures. This liquid may accumulate static electricity when filling properly grounded containers. Static electricity accumulation may be significantly increased by the presence of small quantities of water or other contaminants. Material will float and may ignite on surface of water. During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire-fighting equipment/instructions	In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.
General fire hazards	Highly flammable liquid and vapor.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Do not breathe mist or vapor. Ventilate closed spaces before entering them. Use appropriate containment to avoid environmental contamination. Transfer by mechanical means such as vacuum truck to a salvage tank or other suitable container for recovery or safe disposal. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Keep combustibles (wood, paper, oil, etc.) away from spilled material.
	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.
	Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
Environmental precautions	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground. Use appropriate containment to avoid environmental contamination.

7. Handling and storage

Precautions for safe handling	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Vapors may form explosive mixtures with air. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Minimize fire risks from flammable and combustible materials (including combustible dust and static accumulating liquids) or dangerous reactions with incompatible materials. Handling operations that can promote accumulation of static charges include but are not limited to: mixing, filtering, pumping at high flow rates, splash filling, creating mists or sprays, tank and container filling, tank cleaning, sampling, gauging, switch loading, vacuum truck operations. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not breathe mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid contact during pregnancy/while nursing. When using, do not eat, drink or smoke. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices. Avoid release to the environment. Do not empty into drains. For product usage instructions, please see the product label.
Conditions for safe storage, including any incompatibilities	Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Avoid spark promoters. Eliminate sources of ignition. Ground/bond container and equipment. These alone may be insufficient to remove static electricity. Store in original tightly closed container. Store in a cool, dry place out of direct sunlight. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS). Keep in an area equipped with sprinklers.

8. Exposure controls/personal protection

upational exposure limits US. OSHA Table Z-1 Limit	s for Air Cont	taminants (29 CFR 1910.10	00)		
Components		Туре			alue	
n-Hexane (CAS 110-54-3)		PEL		18	300 mg/m3	
				50	00 ppm	
US. ACGIH Threshold Lim	it Values					
Components		Туре		V	alue	
2,2-Dimethylbutane (CAS 75-83-2)		STEL		10	000 ppm	
		TWA			00 ppm	
2-Methylpentane (CAS 107-83-5)		STEL			000 ppm	
		TWA			00 ppm	
n-Hexane (CAS 110-54-3)	TWA		50) ppm		
US. NIOSH: Pocket Guide	to Chemical I	Hazards				
Components		Туре		V	alue	
2,2-Dimethylbutane (CAS 75-83-2)		Ceiling		18	300 mg/m3	
				5	10 ppm	
		TWA			50 mg/m3	
					00 ppm	
2-Methylpentane (CAS 107-83-5)		Ceiling			300 mg/m3	
					10 ppm	
		TWA			50 mg/m3	
					00 ppm	
n-Hexane (CAS 110-54-3)		TWA			30 mg/m3	
				50 ppm		
ogical limit values						
ACGIH Biological Exposu Components	re Indices Value		Determinant	Specimen	Sampling Time	
				•	*	
n-Hexane (CAS 110-54-3)	0.4 mg/l	I	2,5-Hexanedio n, without hydrolysis	Urine	•	
* - For sampling details, ple	ase see the so	ource docum	ient.			
osure guidelines						
US - California OELs: Ski	n designation					
n-Hexane (CAS 110-54	-		Can be	absorbed thro	ugh the skin.	

US ACGIH Threshold Limit Values: Skin designation

Can be absorbed through the skin.

n-Hexane (CAS 110-54-3)	Can be absorbed through the skin.
Appropriate engineering controls	Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower should be available when handling this product.

Individual protection measures, such as personal protective equipment

Eye/face protection	Wear safety glasses with side shields (or goggles).			
Skin protection				
Hand protection	Wear protective gloves such as: Nitrile. Polyvinyl chloride (PVC). Viton®.			
Other	Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.			
Respiratory protection	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. Air monitoring is needed to determine actual employee exposure levels.			

Thermal hazards Wear appropria

General hygiene considerations

Wear appropriate thermal protective clothing, when necessary.

When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Liquid.
Liquid.
Liquid.
Clear. Water-white.
Mild solvent.
Not available.
Not available.
-244.7 °F (-153.7 °C) estimated
118.4 °F (48 °C) estimated
< 0 °F (< -17.8 °C) Tag Closed Cup
Fast.
Not available.
losive limits
1 % estimated
8 % estimated
294.2 hPa estimated
> 1 (air = 1)
0.66
Negligible.
Not available.
437 °F (225 °C) estimated
Not available.
Not available.
97 % estimated

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Avoid heat, sparks, open flames and other ignition sources. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents. Chlorine.
Hazardous decomposition products	Carbon oxides.

11. Toxicological information

Information on likely routes of exposure			
Inhalation	May cause damage to organs by inhalation. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.		
Skin contact	Causes skin irritation.		
Eye contact	Direct contact with eyes may cause temporary irritation.		
Ingestion	May be fatal if swallowed and enters airways.		

Information on toxicological effects

Acute toxicity May be fatal if swallowed and enters airways. Narcotic effects.

Acute toxicity	May be fatal if swallowed and enters airways. Narcotic effects.	
Product	Species	Test Results
Electrical Silicone Lubricant		
Acute		
Dermal		
LD50	Rabbit	2486 mg/kg estimated
Inhalation		
LC50	Rat	39 mg/l, 4 hours estimated
Oral		
LD50	Rat	5000 mg/kg estimated
* Estimates for product may b	e based on additional component data not sh	own.
Skin corrosion/irritation	Causes skin irritation.	
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.	
Respiratory sensitization	Not available.	
Skin sensitization	This product is not expected to cause skin sensitization.	
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.	
IARC Monographs. Overall Not available.	Evaluation of Carcinogenicity	
	ogram (NTP) Report on Carcinogens	
Not available.		
Reproductive toxicity	Suspected of damaging fertility or the unbo	rn child.
Specific target organ toxicity - single exposure	May cause drowsiness or dizziness.	
Specific target organ toxicity - repeated exposure	May cause damage to organs (central nerv prolonged or repeated exposure.	ous system, upper respiratory tract, eyes) through
Aspiration hazard	May be fatal if swallowed and enters airway	/S.
Chronic effects	May cause damage to organs through proto	onged or repeated exposure.
	Overexposure to n-hexane may cause prog peripheral nervous system, particularly in the	pressive and potentially irreversible damage to the ne arms and legs.

12. Ecological information

Ecotoxicity	Harmful to aquatic life with long lasting effects. Accumulation in aquatic organisms is expected		
Components		Species	Test Results
n-Hexane (CAS 110-54-3)			
Aquatic			
Fish	LC50	Fathead minnow (Pimephales promelas) 2.101 - 2.981 mg/l, 96 hours
Polydimethylsiloxane (CA Aquatic	63148-62-9)		
Fish	LC50	Channel catfish (Ictalurus punctatus)	2.36 - 4.15 mg/l, 96 hours
* Estimates for product ma Persistence and degradabilit	-	additional component data not shown. s available on the degradability of this product.	

Bioaccumulative potential No data available.

Partition coefficient n-octan	ol / water (log Kow)	
2,2-Dimethylbutane	3.82	
2-Methylpentane	3.74	
n-Hexane	3.9	
Mobility in soil	No data available.	
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.	

13. Disposal considerations

Disposal of waste from residues / unused products	If discarded, this product is considered a RCRA ignitable waste, D001. Consult authorities before disposal. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose in accordance with all applicable regulations.
Hazardous waste code	D001: Waste Flammable material with a flash point <140 F
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

DOT	
UN number	UN1208
UN proper shipping name	Hexane mixture, MARINE POLLUTANT
Transport hazard class(es)	
Class	3
Subsidiary risk	-
Label(s)	3
Packing group	II
Environmental hazards	
Marine pollutant	Yes
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Special provisions	IB2, T4, TP1
Packaging exceptions	150
Packaging non bulk	202
Packaging bulk	242
ΙΑΤΑ	
UN number	UN1208
UN proper shipping name	Hexane mixture
Transport hazard class(es)	
Class	3
Subsidiary risk	-
Packing group	II
ERG Code	3H
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Other information	
Passenger and cargo	Allowed with restrictions.
aircraft	
Cargo aircraft only	Allowed with restrictions.
IMDG	
UN number	UN1208
UN proper shipping name	HEXANE MIXTURE, MARINE POLLUTANT
Transport hazard class(es)	
Class	3
Subsidiary risk	-
Packing group	
Environmental hazards	Yes
EmS	F-E, S-D
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

15. Regulatory information

15. Regulatory informatio	n
US federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.
TSCA Section 12(b) Export	Notification (40 CFR 707, Subpt. D)
Not regulated. US. OSHA Specifically Regu	ulated Substances (29 CFR 1910.1001-1050)
Not listed.	
SARA 304 Emergency relea	se notification
Not regulated. US EPCRA (SARA Title III) S	Section 313 - Toxic Chemical: Listed substance
n-Hexane (CAS 110-54-3	
CERCLA Hazardous Substa	
n-Hexane (CAS 110-54-3	
CERCLA Hazardous Substa	
n-Hexane (CAS 110-54-3	3) 5000 LBS
	g in the loss of any ingredient at or above its RQ require immediate notification to the National 24-8802) and to your Local Emergency Planning Committee.
Clean Air Act (CAA) Section	n 112 Hazardous Air Pollutants (HAPs) List
n-Hexane (CAS 110-54-3 Clean Air Act (CAA) Section	3) n 112(r) Accidental Release Prevention (40 CFR 68.130)
Not regulated.	
Safe Drinking Water Act (SDWA)	Not regulated.
Food and Drug Administration (FDA)	Not regulated.
Superfund Amendments an	d Reauthorization Act of 1986 (SARA)
Section 311/312 Hazard categories	Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No
SARA 302 Extremely hazardous substance	No
US state regulations	
-	hemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd.
	drotreated light (CAS 64742-49-0) 3)
US. New Jersey Worker and	I Community Right-to-Know Act
2-Methylpentane (CAS 10 US. Massachusetts RTK - S	
2-Methylpentane (CAS 10 n-Hexane (CAS 110-54-3	
	ubstances. CA Department of Justice (California Health and Safety Code Section 11100)
Not listed. US. Rhode Island RTK	
n-Hexane (CAS 110-54-3 US. New Jersey Worker and	3) I Community Right-to-Know Act
n-Hexane (CAS 110-54-3	
US. Pennsylvania Worker an 2-Methylpentane (CAS 10 n-Hexane (CAS 110-54-3	
	·/

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

Volatile organic compounds (VOC) regulations

EPA	
VOC content (40 CFR	97 %
51.100(s))	
Consumer products (40 CFR 59, Subpt. C)	Not regulated

State

Consumer products	Not regulated
VOC content (CA)	97 %
VOC content (OTC)	97 %

International Inventories

Country(s) or region	Inventory name On in	ventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

	· · · ·
Issue date	02-11-2016
Revision date	02-12-2016
Prepared by	Allison Cho
Version #	02
Further information	CRC # 521A-C
HMIS® ratings	Health: 2* Flammability: 3 Physical hazard: 0 Personal protection: B
NFPA ratings	Health: 2 Flammability: 3 Instability: 0
NFPA ratings	2 0
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