

SAFETY DATA SHEET

1. Identification

Product identifier Food Grade Silicone

Other means of identification

Product code 03040

Recommended use Silicone-based multi-purpose lubricant

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufactured or sold by:

CRC Industries, Inc. Company name

Address 885 Louis Dr. Warminster, PA 18974 US

Telephone

General Information 215-674-4300 800-521-3168 **Technical**

Assistance

Customer Service 800-272-4620 24-Hour Emergency 800-424-9300 (US)

703-527-3887 (International) (CHEMTREC) Website www.crcindustries.com

2. Hazard(s) identification

Physical hazards Flammable aerosols Category 1

> Gases under pressure Liquefied gas Reproductive toxicity (fertility) Category 2

Specific target organ toxicity, single exposure Category 3 narcotic effects

Specific target organ toxicity, repeated Category 2

exposure

Aspiration hazard Category 1 Category 3

Hazardous to the aquatic environment, acute **Environmental hazards**

hazard

Hazardous to the aquatic environment,

long-term hazard

OSHA defined hazards Not classified.

Label elements

Health hazards



Signal word Danger

Extremely flammable aerosol. Contains gas under pressure; may explode if heated. May be fatal if Hazard statement

swallowed and enters airways. May cause drowsiness or dizziness. Suspected of damaging fertility. May cause damage to organs (nervous system, upper respiratory tract, skin, eyes) through prolonged or repeated exposure. Harmful to aquatic life. Harmful to aquatic life with long

Category 3

lasting effects.

Material name: Food Grade Silicone SDS US 1/9

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. Do not spray on an open flame or other ignition source. Do not apply while equipment is energized. Pressurized container: Do not pierce or burn, even after use. Extinguish all flames, pilot lights and heaters. Vapors will accumulate readily and may ignite. 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 gas. Do not breathe mist or vapor. 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 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.

Store in a well-ventilated place. Store locked up. Protect from sunlight. Do not expose to

temperatures exceeding 50°C/122°F. Exposure to high temperature may cause can to burst.

Disposal Dispose of contents/container in accordance with local/regional/national regulations.

Hazard(s) not otherwise classified (HNOC)

Storage

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), hydrotr light	eated	64742-49-0	40 - 50
1,1-Difluoroethane	HFC-152a	75-37-6	30 - 40
2-Methylpentane		107-83-5	10 - 20
Polydimethylsiloxane		63148-62-9	3 - 5
n-Hexane		110-54-3	1 - 3
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

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON Inhalation

CENTER or doctor/physician if you feel unwell.

Skin contact Wash off with soap and plenty of water. Get medical attention if irritation develops and persists.

Take off contaminated clothing and wash before reuse.

Rinse with water. Get medical attention if irritation develops and persists. Eye contact

Call a physician or poison control center immediately. Do not induce vomiting. If vomiting occurs, Ingestion

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

Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea. May cause drowsiness or dizziness. Prolonged exposure may cause chronic effects.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically.

General information 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.

5. Fire-fighting measures

Suitable extinguishing media Water spray. Water fog. Foam. Dry chemical powder, carbon dioxide, sand or earth may be used

for small fires only.

03040 Version #: 02 Revision date: 08-12-2014 Issue date: 02-03-2014

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

Material name: Food Grade Silicone

Specific hazards arising from the chemical

Contents under pressure. Pressurized container may explode when exposed to heat or flame. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. 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.

Special protective equipment and precautions for firefighters

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Fire-fighting equipment/instructions In case of fire: Stop leak if safe to do so. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. In the event of fire, cool tanks with water spray.

Extremely flammable aerosol.

General fire hazards

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. Remove all possible sources of ignition in the surrounding area. Wear appropriate personal protective equipment. Do not breathe gas. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Use appropriate containment to avoid environmental contamination. 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). Keep combustibles (wood, paper, oil, etc.) away from spilled material. This product is miscible in water. Stop the flow of material, if this is without risk. Collect spillage. Dike far ahead of spill for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Prevent entry into waterways, sewer, basements or confined areas. For waste disposal, see section 13 of the SDS.

Environmental precautions

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. 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. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. 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. Do not breathe mist or vapor. Do not breathe gas. Avoid contact during pregnancy/while nursing. Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment. When using, do not eat, drink or smoke. 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

Level 3 Aerosol.

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Avoid spark promoters. These alone may be insufficient to remove static electricity. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS). Keep out of the reach of children.

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value
n-Hexane (CAS 110-54-3)	PEL	1800 mg/m3 500 ppm

Material name: Food Grade Silicone SDS US 3/9

US. ACGIH Threshold Limit Value Components	s Type	Value	
2,2-Dimethylbutane (CAS 75-83-2)	STEL	1000 ppm	
,	TWA	500 ppm	
2-Methylpentane (CAS 107-83-5)	STEL	1000 ppm	
,	TWA	500 ppm	
n-Hexane (CAS 110-54-3)	TWA	50 ppm	
US. NIOSH: Pocket Guide to Cher	nical Hazards		
Components	Туре	Value	
2,2-Dimethylbutane (CAS 75-83-2)	Ceiling	1800 mg/m3	
•		510 ppm	
	TWA	350 mg/m3	
		100 ppm	
2-Methylpentane (CAS 107-83-5)	Ceiling	1800 mg/m3	
,		510 ppm	
	TWA	350 mg/m3	
		100 ppm	
n-Hexane (CAS 110-54-3)	TWA	180 mg/m3	
		50 ppm	
US. AIHA Workplace Environmen	tal Exposure Level (WEEL) Gu	ides	
Components	Туре	Value	
1,1-Difluoroethane (CAS 75-37-6)	TWA	2700 mg/m3	
·		1000 ppm	

Biological limit values

Components	Value	Determinant	Specimen	Sampling Time
n-Hexane (CAS 110-54-3)	0.4 mg/l	2,5-Hexanedio n, without hydrolysis	Urine	*

^{* -} For sampling details, please see the source document.

Exposure guidelines

US - California OELs: Skin designation

n-Hexane (CAS 110-54-3) Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation

Can be absorbed through the skin. n-Hexane (CAS 110-54-3)

Appropriate engineering

controls

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.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin protection

Wear protective gloves such as: Nitrile. Polyvinyl chloride (PVC). Viton®. **Hand protection**

Other Wear appropriate chemical resistant clothing.

If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a Respiratory protection

> 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.

Wear appropriate thermal protective clothing, when necessary. Thermal hazards

General hygiene 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 considerations

wash work clothing and protective equipment to remove contaminants.

03040 Version #: 02 Revision date: 08-12-2014 Issue date: 02-03-2014

9. Physical and chemical properties

Appearance

Physical state Liquid. Aerosol. **Form**

Clear water-white. Color

Mild solvent. Odor Odor threshold Not available. Not available. pН Not available. Melting point/freezing point

Initial boiling point and boiling

118.4 °F (48 °C) estimated

range

< 0 °F (< -17.8 °C) Tag Closed Cup Flash point

Evaporation rate Fast.

Flammability limit - upper

Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits Flammability limit - lower 1 % estimated

(%)

8 % estimated

Vapor pressure 3083.3 hPa estimated

Vapor density > 1 (air = 1)Relative density 0.81 estimated Negligible. Solubility (water) Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature 489.2 °F (254 °C) estimated

Decomposition temperature Not available. Viscosity (kinematic) Not available. Percent volatile 97 % estimated

10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Material is stable under normal conditions. **Chemical stability**

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Heat, flames and sparks. Contact with incompatible materials. Conditions to avoid

Incompatible materials Strong oxidizing agents. Chlorine.

Hazardous decomposition

products

Carbon oxides.

11. Toxicological information

Information on likely routes of exposure

May be fatal if swallowed and enters airways. Ingestion

Inhalation Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea.

Prolonged inhalation may be harmful. May cause damage to organs by inhalation.

Prolonged skin contact may cause temporary irritation. Frequent or prolonged contact may defat Skin contact

and dry the skin, leading to discomfort and dermatitis.

Eye contact Direct contact with eyes may cause temporary irritation.

Symptoms related to the physical, chemical and toxicological characteristics Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Information on toxicological effects

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

Material name: Food Grade Silicone SDS US **Product Species Test Results** Food Grade Silicone Acute Dermal LD50 Rabbit 3767.2212 mg/kg estimated Inhalation LC50 Rat 62.4636 mg/l, 4 hours estimated Oral LD50 Rat 23868.4531 mg/kg estimated * Estimates for product may be based on additional component data not shown. Skin corrosion/irritation Prolonged skin contact may cause temporary irritation. Serious eve damage/eve Direct contact with eyes may cause temporary irritation. irritation Not available. Respiratory sensitization 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.

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. Carcinogenicity Reproductive toxicity Suspected of damaging fertility.

Specific target organ toxicity -

single exposure

Narcotic effects.

Specific target organ toxicity -

repeated exposure

May cause damage to organs (nervous system, upper respiratory tract, skin, eyes) through

prolonged or repeated exposure.

Aspiration hazard

May be fatal if swallowed and enters airways.

Species

Chronic effects

Product

Prolonged inhalation may be harmful. May cause damage to organs through prolonged or

repeated exposure.

Overexposure to n-hexane may cause progressive and potentially irreversible damage to the

Test Results

peripheral nervous system, particularly in the 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
Fish	LC50	Fish	613.7199 mg/l, 96 hours estimated
Aquatic			
Food Grade Silicone			

n-Hexane (CAS 110-54-3)

Aquatic

LC50 Fish Fathead minnow (Pimephales promelas) 2.101 - 2.981 mg/l, 96 hours

Polydimethylsiloxane (CAS 63148-62-9)

Aquatic

Fish LC50 Channel catfish (Ictalurus punctatus) 2.36 - 4.15 mg/l, 96 hours

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential No data available. Partition coefficient n-octanol / water (log Kow)

1.1-Difluoroethane 0.75 2,2-Dimethylbutane 3.82 3.74 2-Methylpentane 3.9 n-Hexane

Mobility in soil No data available.

^{*} Estimates for product may be based on additional component data not shown.

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 This material and its container must be disposed of as hazardous waste. If discarded, this product is considered a RCRA ignitable waste, D001. Consult authorities before disposal. Contents under

pressure. Do not puncture, incinerate or crush. 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

UN1950 **UN number**

Aerosols, flammable, Limited Quantity UN proper shipping name

Transport hazard class(es) Class

2.1 Subsidiary risk 2.1 Label(s)

Packing group Not applicable.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Special provisions Packaging exceptions 306 Packaging non bulk None Packaging bulk None

IATA

UN number UN1950

Aerosols, flammable, Limited Quantity **UN proper shipping name**

Transport hazard class(es)

Class 2.1 Subsidiary risk

Packing group Not applicable.

Environmental hazards No. **ERG Code** 10L

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo

aircraft

Allowed.

Cargo aircraft only

Allowed.

IMDG

UN number UN1950

UN proper shipping name Transport hazard class(es)

Class

2 Subsidiary risk

Packing group Not applicable.

Environmental hazards

Marine pollutant No. F-D. S-U **EmS**

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

AEROSOLS, LIMITED QUANTITY

15. Regulatory information

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.

03040 Version #: 02 Revision date: 08-12-2014 Issue date: 02-03-2014

SARA 304 Emergency release notification

Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

n-Hexane (CAS 110-54-3)

CERCLA Hazardous Substance List (40 CFR 302.4)

n-Hexane (CAS 110-54-3)

CERCLA Hazardous Substances: Reportable quantity

n-Hexane (CAS 110-54-3)

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.

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

n-Hexane (CAS 110-54-3)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

1,1-Difluoroethane (CAS 75-37-6)

Safe Drinking Water Act

Not regulated.

(SDWA)

Food and Drug

Not regulated.

Administration (FDA)

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Immediate Hazard - Yes Section 311/312 **Hazard categories** Delayed Hazard - Yes Fire Hazard - Yes

Pressure Hazard - Yes Reactivity Hazard - No

SARA 302 Extremely No hazardous substance

US state regulations

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed

US. New Jersey Worker and Community Right-to-Know Act

2,2-Dimethylbutane (CAS 75-83-2)

2-Methylpentane (CAS 107-83-5)

1,1-Difluoroethane (CAS 75-37-6)

n-Hexane (CAS 110-54-3)

US. Massachusetts RTK - Substance List

1,1-Difluoroethane (CAS 75-37-6)

2-Methylpentane (CAS 107-83-5)

n-Hexane (CAS 110-54-3)

US. Rhode Island RTK

1,1-Difluoroethane (CAS 75-37-6)

n-Hexane (CAS 110-54-3)

US. Pennsylvania Worker and Community Right-to-Know Law

2,2-Dimethylbutane (CAS 75-83-2)

2-Methylpentane (CAS 107-83-5)

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

60 %

Not regulated

51.100(s))

Consumer products (40 CFR 59, Subpt. C)

03040 Version #: 02 Revision date: 08-12-2014 Issue date: 02-03-2014

State

Consumer products This product is regulated as a Silicone Based Multi-Purpose Lubricant. This product is compliant

for use in all 50 states.

VOC content (CA) 60 % VOC content (OTC) 60 %

International Inventories

Country(s) or region	Inventory name	On inventory (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)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances	Yes

(PICCS)

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

*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 date02-03-2014Revision date08-12-2014Prepared byAllison Cho

Version # 02

Further information CRC # 519E-F
HMIS® ratings Health: 2*
Flammability: 4

Physical hazard: 0
Personal protection: B

NFPA ratings Health: 2

Flammability: 4 Instability: 0

NFPA ratings



Disclaimer

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 (M)SDS consult your supervisor, a health & safety professional, or CRC Industries.

Material name: Food Grade Silicone

Yes