



1. Identification

Product identifier	Food Plant Silicone	
Other means of identification		
Product Code	No. 73040 (Item# 1006149)	
Recommended use	Silicone-based multi-purpose lubricant	
Recommended restrictions	None known.	
Manufacturer/Importer/Supplier	/Distributor information	
Manufactured or sold by:		
Company name	CRC Canada Co.	
Address	83 Galaxy Blvd	
	Unit 35 - 37	
	Toronto, ON M9W 5X6	
	Canada	
Telephone		
General Information	416-847-7750	
24-Hour Emergency (CHEMTREC)	800-424-9300 (Canada)	
Website	www.crc-canada.ca	
E-mail	Support.CA@crcindustries.com	
2. Hazard identification		
Physical hazards	Flammable aerosols	Category 1
	Gases under pressure	Liquefied gas
	Physical hazards not otherwise classified	Category 1
Health hazards	Skin corrosion/irritation	Category 2
	Specific target organ toxicity, single exposure	Category 3 narcotic effects
	Aspiration hazard	Category 1
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 1
	Hazardous to the aquatic environment, long-term hazard	Category 1
Label elements		
Signal word	Danger	
Hazard statement	Extremely flammable aerosol. Contains gas ur accumulating flammable liquid can become ele grounded equipment. Sparks may ignite liquid be fatal if swallowed and enters airways. Caus dizziness. Very toxic to aquatic life. Very toxic	ectrostatically charged even in bonded and and vapor. May cause flash fire or explosion. May ses skin irritation. May cause drowsiness or
Precautionary statement		
Prevention		

Response	IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting. IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell. In case of leakage, eliminate all ignition sources. Collect spillage.
Storage	Keep container tightly closed. Store locked up. Protect from sunlight. Store in a well-ventilated place. Do not expose to temperatures exceeding 50°C/122°F.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Other hazards	None known.
Supplemental information	None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
1,1-difluoroethane	HFC-152a	75-37-6	30 - 60
naphtha (petroleum), hydrotreated light		64742-49-0	15 - 40
n-heptane		142-82-5	7 - 13
3-methylhexane		589-34-4	5 - 10
2-methylhexane		591-76-4	3 - 7
methylcyclohexane		108-87-2	3 - 7
2,3-dimethylpentane		565-59-3	1 - 5
3-ethylpentane		617-78-7	1 - 5
polydimethylsiloxane		63148-62-9	1 - 5
3,3-dimethylpentane		562-49-2	0.1 - 1

The exact percentage (concentration) of composition has been withheld as a trade secret. All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

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	Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
Eye contact	Rinse with water. 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.
Most important symptoms/effects, acute and delayed	Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Skin irritation. May cause redness and pain.
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	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 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	Contents under pressure. Pressurized container may rupture 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. During fire, gases hazardous to health may be formed.
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.

Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials. In the event of fire and/or explosion do not breathe fumes.
General fire hazards	Extremely flammable aerosol. Contents under pressure. Pressurized container may rupture when exposed to heat or flame.
6. Accidental release mea	sures
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Remove all possible sources of ignition in the surrounding area. Keep out of low areas. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist/vapor. Emergency personnel need self-contained breathing equipment. 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	Stop leak if you can do so without risk. 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. Prevent product from entering drains. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. 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	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. Do not re-use empty containers. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.
Conditions for safe storage,	Level 3 Aerosol.
including any incompatibilities	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. Store in tightly closed container. Store in a well-ventilated place. Stored containers should be periodically checked for general condition and leakage. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

US. ACGIH Threshold Limit Values			
Components	Туре	Value	
2,3-dimethylpentane (CAS 565-59-3)	STEL	500 ppm	
	TWA	400 ppm	
2-methylhexane (CAS 591-76-4)	STEL	500 ppm	
	TWA	400 ppm	
3,3-dimethylpentane (CAS 562-49-2)	STEL	500 ppm	
	TWA	400 ppm	
3-ethylpentane (CAS 617-78-7)	STEL	500 ppm	

US. ACGIH Threshold Limit Values

Components	Туре	Value	
	TWA	400 ppm	
3-methylhexane (CAS 589-34-4)	STEL	500 ppm	
	TWA	400 ppm	
methylcyclohexane (CAS 108-87-2)	TWA	400 ppm	
n-heptane (CAS 142-82-5)	STEL	500 ppm	
	TWA	400 ppm	

Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2) Components Type Value

Components	Туре	Value	
2,3-dimethylpentane (CAS 565-59-3)	STEL	2050 mg/m3	
		500 ppm	
	TWA	1640 mg/m3	
		400 ppm	
2-methylhexane (CAS 591-76-4)	STEL	2050 mg/m3	
		500 ppm	
	TWA	1640 mg/m3	
		400 ppm	
3,3-dimethylpentane (CAS 562-49-2)	STEL	2050 mg/m3	
		500 ppm	
	TWA	1640 mg/m3	
		400 ppm	
3-ethylpentane (CAS 617-78-7)	STEL	2050 mg/m3	
		500 ppm	
	TWA	1640 mg/m3	
		400 ppm	
3-methylhexane (CAS 589-34-4)	STEL	2050 mg/m3	
		500 ppm	
	TWA	1640 mg/m3	
		400 ppm	
methylcyclohexane (CAS 108-87-2)	TWA	1610 mg/m3	
		400 ppm	
naphtha (petroleum), hydrotreated light (CAS 64742-49-0)	TWA	1590 mg/m3	
		400 ppm	
n-heptane (CAS 142-82-5)	STEL	2050 mg/m3	
		500 ppm	
	TWA	1640 mg/m3	
		400 ppm	

Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

Components	Туре	Value	
2,3-dimethylpentane (CAS 565-59-3)	STEL	500 ppm	
	TWA	400 ppm	
2-methylhexane (CAS 591-76-4)	STEL	500 ppm	
	TWA	400 ppm	
3,3-dimethylpentane (CAS 562-49-2)	STEL	500 ppm	
	TWA	400 ppm	
3-ethylpentane (CAS 617-78-7)	STEL	500 ppm	
	TWA	400 ppm	
3-methylhexane (CAS 589-34-4)	STEL	500 ppm	
	TWA	400 ppm	
methylcyclohexane (CAS 108-87-2)	TWA	400 ppm	
n-heptane (CAS 142-82-5)	STEL	500 ppm	
	TWA	400 ppm	

Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act)

Components	Туре	Value	
2,3-dimethylpentane (CAS 565-59-3)	STEL	500 ppm	
	TWA	400 ppm	
2-methylhexane (CAS 591-76-4)	STEL	500 ppm	
	TWA	400 ppm	
3,3-dimethylpentane (CAS 562-49-2)	STEL	500 ppm	
	TWA	400 ppm	
3-ethylpentane (CAS 617-78-7)	STEL	500 ppm	
	TWA	400 ppm	
3-methylhexane (CAS 589-34-4)	STEL	500 ppm	
	TWA	400 ppm	
methylcyclohexane (CAS 108-87-2)	TWA	400 ppm	
n-heptane (CAS 142-82-5)	STEL	500 ppm	
	TWA	400 ppm	

Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

Components	Туре	Value	
2,3-dimethylpentane (CAS 565-59-3)	STEL	500 ppm	
	TWA	400 ppm	
2-methylhexane (CAS 591-76-4)	STEL	500 ppm	
	TWA	400 ppm	
3,3-dimethylpentane (CAS 562-49-2)	STEL	500 ppm	
	TWA	400 ppm	

Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

Components	Туре	Value	
3-ethylpentane (CAS 617-78-7)	STEL	500 ppm	
	TWA	400 ppm	
3-methylhexane (CAS 589-34-4)	STEL	500 ppm	
	TWA	400 ppm	
methylcyclohexane (CAS 108-87-2)	TWA	400 ppm	
n-heptane (CAS 142-82-5)	STEL	500 ppm	
	TWA	400 ppm	

Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety) Components Type Value

Componenta	Type	Value
methylcyclohexane (CAS 108-87-2)	TWA	1610 mg/m3
		400 ppm
naphtha (petroleum), hydrotreated light (CAS 64742-49-0)	TWA	1590 mg/m3
		400 ppm
n-heptane (CAS 142-82-5)	STEL	2050 mg/m3
		500 ppm
	TWA	1640 mg/m3
		400 ppm
Biological limit values	No biological exposure limits noted f	or the ingredient(s).
Appropriate engineering controls	should be matched to conditions. If a or other engineering controls to mair) air changes per hour) should be used. Ventilation rates applicable, use process enclosures, local exhaust ventilation, itain airborne levels below recommended exposure limits. If lished, maintain airborne levels to an acceptable level.
Individual protection measures	s, such as personal protective equipn	nent
Eye/face protection	Wear safety glasses with side shield	s (or goggles).
Skin protection		
Hand protection	Wear protective gloves such as: Nitr	ile. Viton/butyl.
Other	Wear appropriate chemical resistant	clothing.
Respiratory protection	NIOSH-approved cartridge respirato	le or if exposure exceeds the applicable exposure limits, use a r with an organic vapor cartridge. Use a self-contained ces and for emergencies. Air monitoring is needed to e levels.
Thermal hazards	Wear appropriate thermal protective	clothing, when necessary.
General hygiene considerations	personal hygiene measures, such as	oke. When using do not smoke. Always observe good washing after handling the material and before eating, wash work clothing and protective equipment to remove

9. Physical and chemical properties

id.
osol.
er-white.
petroleum.
available.
available.
.9 °F (-126.6 °C) estimated

Initial boiling point and boiling range	149 °F (65 °C) estimated
Flash point	< 23 °F (< -5 °C) Tag Closed Cup
Evaporation rate	Fast.
Flammability (solid, gas)	Not available.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	1.1 % estimated
Flammability limit - upper (%)	7 % estimated
Vapor pressure	2931.4 hPa estimated
Vapor density	> 1 (air = 1)
Relative density	0.78 estimated
Solubility(ies)	
Solubility (water)	Negligible.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	509 °F (265 °C) estimated
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Percent volatile	95.3 % 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	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Carbon oxides.

11. Toxicological information

Information on likely routes of exposure

Inhalation	May cause drowsiness and dizziness. Headache. Nausea, vomiting. Prolonged inhalation may be harmful.
Skin contact	Causes skin irritation.
Eye contact	Direct contact with eyes may cause temporary irritation.
Ingestion	Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.
Symptoms related to the physical, chemical and toxicological characteristics	Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Skin irritation. May cause redness and pain.

Information on toxicological effects

Acute toxicity	May be fatal if swallowed and enters a	irways.
Components	Species	Test Results
1,1-difluoroethane (CAS 75-37-6)		
Acute		
Inhalation		
LC50	Rat	383000 ppm, 2 hours

Components	Species	Test Results
3-methylhexane (CAS 589-34-4)		
Acute		
Dermal	B 11 1	
LD50	Rabbit	> 2000 mg/kg
Inhalation	Det	
LC50	Rat	> 20 mg/l, 4 hours
Oral	Det	> 2000 mg/kg
LD50	Rat	> 2000 mg/kg
methylcyclohexane (CAS 108-87-2	2)	
<u>Acute</u> Dermal		
LD50	Rabbit	> 2000 mg/kg
	Nabbit	2000 mg/kg
Oral LD50	Rat	> 4000 mg/kg
		> 4000 mg/kg
naphtha (petroleum), hydrotreated <u>Acute</u>	iigin (CAS 04742-43-0)	
Dermal		
LD50	Rabbit	> 2000 mg/kg
Inhalation		
LC50	Rat	61 mg/l, 4 Hours
Oral		
LD50	Rat	> 5000 mg/kg
n-heptane (CAS 142-82-5)		5 5
<u>Acute</u>		
Dermal		
LD50	Rabbit	3000 mg/kg
Inhalation		
Vapor		
LC50	Rat	> 73.5 mg/l, 4 hours
Oral		
LD50	Rat	25000 mg/kg
polydimethylsiloxane (CAS 63148	62-9)	
Acute		
Dermal		
LD50	Rabbit	> 2006 mg/kg
Oral		
LD50	Rat	4996 mg/kg
Skin corrosion/irritation	Causes skin irritation.	
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary ir	ritation.
Respiratory or skin sensitization	1	
Respiratory sensitization	Not a respiratory sensitizer.	
Skin sensitization	This product is not expected to cause skin sensi	tization.
Germ cell mutagenicity	No data available to indicate product or any com mutagenic or genotoxic.	ponents present at greater than 0.1% are
Carcinogenicity	Not classifiable as to carcinogenicity to humans.	
Reproductive toxicity	This product is not expected to cause reproduction	ive or developmental effects.
Specific target organ toxicity - single exposure	May cause drowsiness and dizziness.	
Specific target organ toxicity - repeated exposure	Not classified.	

May be fatal if swallowed and enters airways. Prolonged inhalation may be harmful.

12. Ecological information

Ecotoxicity	Very toxic	to aquatic life with long lasting effects.		
Components	Species		Test Results	
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 any ingredi	ents in the mixture.	
Bioaccumulative potential				
Partition coefficient n-octa	anol / water (l	log Kow)		
1,1-difluoroethane		0.75		
methylcyclohexane		3.61		
n-heptane		4.66		
Bioconcentration factor (E	BCF)			
naphtha (petroleum), hydrot	reated light	10 - 25000		
Mobility in soil	No data a	vailable.		
Other adverse effects	The produpotential.	uct contains volatile organic compounds which	n have a photochemical ozone creation	

13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. 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 of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

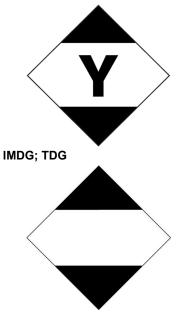
14. Transport information

TDG

UN number UN proper shipping name Transport hazard class(es)	UN1950 AEROSOLS, flammable, Limited Quantity
Class	2.1
Subsidiary risk	-
Packing group	Not applicable.
Environmental hazards	Yes, but exempt from the regulations.
Special precautions for user	Not available.
Special provisions	80
ΙΑΤΑ	
UN number	UN1950
UN proper shipping name	Aerosols, flammable, Limited Quantity
Transport hazard class(es)	
Class	2.1
Subsidiary risk	-
Packing group	Not applicable.
ERG Code	10L
Other information	
Passenger and cargo aircraft	Allowed with restrictions.
Cargo aircraft only	Allowed with restrictions.
IMDG	
UN number	UN1950
UN proper shipping name	AEROSOLS, Limited Quantity

Transport hazard class(es)Class2.1Subsidiary risk-Packing groupNot applicable.Environmental hazardsYes, but exempt from the regulations.Marine pollutantYes, but exempt from the regulations.EmSNot available.Special precautions for userNot available.

IATA



15. Regulatory information

Canadian regulations

This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.

Canada. Excluded VOCs. Guidelines for Volatile Organic Compounds in Consumer Products. CEPA 1999. Environment Canada, as amended

1,1-difluoroethane (CAS 75-37-6) polydimethylsiloxane (CAS 63148-62-9) Controlled Drugs and Substances Act Not regulated. Export Control List (CEPA 1999, Schedule 3) Not listed. Greenhouse Gases

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

Precursor Control Regulations

Not regulated.

International regulations

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Kyoto protocol

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

Montreal Protocol

Not applicable. Basel Convention

Not applicable.

Listed.

International Inventories

Country(s) or region	Inventory name On inventory	(yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
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
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	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

Issue date	11-22-2016
Revision date	10-18-2018
Version #	02
Further information	CRC # 1750887
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Revision information	This document has undergone significant changes and should be reviewed in its entirety.