CRC

SAFETY DATA SHEET

1. Identification

Product identifier Extreme Duty Open Gear and Chain Lube

Other means of identification

Product code No. 73058 (Item# 1006162)

Recommended use Gear and chain lube

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufactured or sold by:

Company name CRC Canada Co.
Address 2-1246 Lorimar Dr.

Mississauga, Ontario L5S 1R2

Canada

Telephone 905-670-2291
Website www.crc-canada.ca

E-mail Support.CA@crcindustries.com

E-mail Support.CA@crcindustries.com

Emergency phone number 24-Hour Emergency 800-424-9300 (Canada) (CHEMTREC) 703-527-3887 (International)

2. Hazard(s) identification

Physical hazards Flammable aerosols Category 1

Gases under pressure Liquefied gas
Physical hazards not otherwise classified Category 1
Skin corrosion/irritation Category 2

Carcinogenicity Category 1B

Specific target organ toxicity, single exposure Category 3 narcotic effects

Aspiration hazard Category 1
Hazardous to the aquatic environment, acute Category 2

Environmental hazards Hazardous to the aquatic environment, acute

hazard

Hazardous to the aquatic environment, Category 2

long-term hazard

Label elements

Health hazards



Signal word Danger

Hazard statement Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Static accumulating flammable liquid can become electrostatically charged even in bonded and

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. May be fatal if swallowed and enters airways. Causes skin irritation. May cause drowsiness or

dizziness. May cause cancer. 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, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Avoid breathing mist or vapor. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling. Avoid release to the environment.

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IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting. IF ON Response

> 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. IF exposed or concerned: Get medical advice/attention. 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.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
naphtha (petroleum), hydrotreated light		64742-49-0	15 - 40
n-butane		106-97-8	10 - 30
propane		74-98-6	10 - 30
carbon black		1333-86-4	1 - 5
propylene carbonate		108-32-7	1 - 5
quartz		14808-60-7	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. Ca	all 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

General information

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

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

Water fog. Foam. Carbon dioxide (CO2). Dry chemical powder, carbon dioxide, sand or earth may Suitable extinguishing media 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.

Fire fighting equipment/instructions Specific methods

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.

Use standard firefighting procedures and consider the hazards of other involved materials. In the

event of fire and/or explosion do not breathe fumes.

Extremely flammable aerosol. Contents under pressure. Pressurized container may rupture when General fire hazards exposed to heat or flame.

6. Accidental release measures

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 or 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. Prevent entry into waterways, sewer, basements or confined areas. 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. Put material in suitable, covered, labeled containers. 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

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. Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Should be handled in closed systems, if possible. 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, 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. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

US. ACGII	l Threshold	Limit	Values
Campana	-1-		

Components	Туре	Value	Form
carbon black (CAS 1333-86-4)	TWA	3 mg/m3	Inhalable fraction.
n-butane (CAS 106-97-8)	STEL	1000 ppm	
quartz (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.
Canada. Alberta OELs (Occupati	onal Health & Safety Code, Sc	hedule 1, Table 2)	
Components	Туре	Value	Form
carbon black (CAS 1333-86-4)	TWA	3.5 mg/m3	
naphtha (petroleum), hydrotreated light (CAS 64742-49-0)	TWA	1590 mg/m3	
,		400 ppm	
n-butane (CAS 106-97-8)	TWA	1000 ppm	
propane (CAS 74-98-6)	TWA	1000 ppm	

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Components	cupational Health & Safety Code, Scho Type	Value	Form
quartz (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable particles.
	OELs. (Occupational Exposure Limits	for Chemical Substances, Oc	cupational Health and
Safety Regulation 296/97, a Components	as amended) Type	Value	Form
carbon black (CAS 1333-86-4)	TWA	3 mg/m3	Inhalable
n-butane (CAS 106-97-8)	STEL	750 ppm	
	TWA	600 ppm	
propane (CAS 74-98-6)	TWA	1000 ppm	-
quartz (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.
Canada. Manitoba OELs (R Components	Reg. 217/2006, The Workplace Safety A Type	And Health Act) Value	Form
carbon black (CAS 1333-86-4)	TWA	3 mg/m3	Inhalable fraction.
n-butane (CAS 106-97-8)	STEL	1000 ppm	
quartz (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.
	ontrol of Exposure to Biological or Ch	J	
Components	Type	Value	Form
carbon black (CAS 1333-86-4)	TWA	3 mg/m3	Inhalable fraction.
n-butane (CAS 106-97-8)	TWA	800 ppm	
propane (CAS 74-98-6)	TWA	1000 ppm	
quartz (CAS 14808-60-7)	TWA	0.1 mg/m3	Respirable fraction.
Canada. Quebec OELs. (Mi	inistry of Labor - Regulation Respecti	ng the Quality of the Work En	vironment)
Components	Туре	Value	Form
carbon black (CAS 1333-86-4)	TWA	3.5 mg/m3	
naphtha (petroleum), hydrotreated light (CAS 64742-49-0)	TWA	1590 mg/m3	
		400 ppm	
n-butane (CAS 106-97-8)	TWA	1900 mg/m3	
		800 ppm	
propane (CAS 74-98-6)	TWA	1800 mg/m3	
		1000 ppm	
quartz (CAS 14808-60-7)	TWA	0.1 mg/m3	Respirable dust.
ogical limit values	No biological exposure limits noted for	or the ingredient(s).	
ropriate engineering trols	Good general ventilation (typically 10 should be matched to conditions. If a or other engineering controls to main exposure limits have not been establi wash facilities and emergency shower	pplicable, use process enclosur tain airborne levels below recon ished, maintain airborne levels t	es, local exhaust ventilation nmended exposure limits. o an acceptable level. Eye
•	s, such as personal protective equipm		
Eye/face protection	Wear safety glasses with side shields	s (or goggles).	
Skin protection Hand protection	Wear protective gloves such as: Nitril	le. Neoprene. Viton/butyl.	
Other	Wear appropriate chemical resistant		
Respiratory protection	If engineering controls are not feasible	· ·	policable exposure limits u
Respiratory protection	NIOSH-approved cartridge respirator breathing apparatus in confined spac determine actual employee exposure	es and for emergencies. Air mo	

SDS CANADA

General hygiene considerations

Observe any medical surveillance requirements. When using do not 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

Appearance

Physical stateLiquid.FormAerosol.ColorBlack.

Odor Hydrocarbon-like.
Odor threshold Not available.
pH Not available.

Melting point/freezing point -55.8 °F (-48.8 °C) estimated

Initial boiling point and boiling

range

Flash point 17.6 °F (-8 °C)

Evaporation rate Fast.

Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower Not available.

(%)

Flammability limit - upper

(%)

Not available.

> 260 °F (> 126.7 °C)

Vapor pressure 5516.1 hPa estimated

Vapor density 1.56 (air = 1)

Relative density 0.86 estimated

Solubility(ies)

Solubility (water) Not available.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature 550 °F (287.8 °C) estimated

Decomposition temperature Not available. **Viscosity** Not available.

Other information

Kinematic viscosity < 20 mm²/s (104 °F (40 °C))

Percent volatile 58 % estimated

10. Stability and reactivity

ReactivityThe 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 Heat. 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.

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Eye contact Direct contact with eyes may cause temporary irritation.

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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 airways.

Components	Species	lest Results
carbon black (CAS 1333-	-86-4)	
Acute		

Oral

LD50 Rat > 8000 mg/kg

naphtha (petroleum), hydrotreated light (CAS 64742-49-0)

<u>Acute</u> Dermal

LD50 Rabbit > 2000 mg/kg

propane (CAS 74-98-6)

<u>Acute</u> Dermal

LD50 Rabbit > 5000 mg/kg

quartz (CAS 14808-60-7)

<u>Acute</u> Oral

LD50 Rat 500 mg/kg

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye

Direct contact with eyes may cause temporary irritation.

irritation

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicityNo data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity May cause cancer.

ACGIH Carcinogens

carbon black (CAS 1333-86-4)

A3 Confirmed animal carcinogen with unknown relevance to

humans.

quartz (CAS 14808-60-7) A2 Suspected human carcinogen.

Canada - Alberta OELs: Carcinogen category

quartz (CAS 14808-60-7) Suspected human carcinogen.

Canada - Manitoba OELs: carcinogenicity

carbon black (CAS 1333-86-4)

Confirmed animal carcinogen with unknown relevance to humans.

quartz (CAS 14808-60-7) Suspected human carcinogen.

Canada - Quebec OELs: Carcinogen category

quartz (CAS 14808-60-7) Suspected carcinogenic effect in humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

carbon black (CAS 1333-86-4) 2B Possibly carcinogenic to humans.

quartz (CAS 14808-60-7) 1 Carcinogenic to humans.

US. National Toxicology Program (NTP) Report on Carcinogens

quartz (CAS 14808-60-7) Known To Be Human Carcinogen.

Reproductive toxicityThis product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

May cause drowsiness and dizziness.

Specific target organ toxicity - Not classified.

repeated exposure

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

Aspiration hazard May be fatal if swallowed and enters airways.

Chronic effects Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

12. Ecological information

Ecotoxicity Toxic to aquatic life with long lasting effects.

Components Species Test Results

naphtha (petroleum), hydrotreated light (CAS 64742-49-0)

Aquatic

Acute

 Crustacea
 EC50
 Daphnia
 1 - 10 mg/l, 48 hours

 Fish
 LC50
 Fish
 1 - 10 mg/l, 96 hours

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

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

n-butane 2.89 propane 2.36 propylene carbonate -0.41

Bioconcentration factor (BCF)

naphtha (petroleum), hydrotreated light 10 - 25000

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

Contents under pressure. Do not puncture, incinerate or crush. Empty container can be recycled. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of

contents/container in accordance with local/regional/national regulations.

Local disposal regulationsDispose in accordance with all applicable regulations.

Hazardous waste code Not regulated.

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.

14. Transport information

TDG

UN number UN1950

UN proper shipping name

Transport hazard class(es)

Class 2.1

Subsidiary risk Packing group Not applicable.

Environmental hazards No.

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

AEROSOLS, flammable, Limited Quantity

Special provisions 80, 107

IATA

UN number UN1950

UN proper shipping name Aerosols, flammable, Limited Quantity

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.

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

Other information

Passenger and cargo

aircraft

Allowed with restrictions.

Not established.

Allowed with restrictions. Cargo aircraft only

IMDG

UN number UN1950

UN proper shipping name AEROSOLS, Limited Quantity

Transport hazard class(es) 2 **Class** Subsidiary risk

Not applicable. Packing group

Environmental hazards

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

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

Transport in bulk according to

Annex II of MARPOL 73/78 and

the IBC Code

15. Regulatory information

Canadian regulations

Controlled Drugs and Substances Act

Not regulated.

Export Control List (CEPA 1999, Schedule 3)

Not listed.

Greenhouse Gases

Not listed.

Precursor Control Regulations

Not regulated.

International regulations

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Kyoto protocol

Not applicable.

Montreal Protocol

Not applicable.

Basel Convention

Not applicable.

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)	No
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)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No

Country(s) or region Inventory name On inventory (yes/no)*

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

Issue date 02-28-2017

Version # 01

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's 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 Canada Co..