# SAFETY DATA SHEET

### 1. Identification

**Product identifier Chain and Wire Rope Lubricant** 

Other means of identification

03050 Product code Recommended use Lubricant None known. Recommended restrictions

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** 

800-272-4620 **Customer Service** 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 Serious eye damage/eye irritation Category 2B Reproductive toxicity (fertility) Category 2

Specific target organ toxicity, single exposure Category 3 narcotic effects

Specific target organ toxicity, repeated

exposure

Category 2

Category 1

Category 3

Aspiration hazard

Hazardous to the aquatic environment,

long-term hazard

**OSHA** defined hazards Not classified.

Label elements

**Environmental hazards** 

**Health hazards** 



Signal word Danger

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

swallowed and enters airways. Causes eye irritation. May cause drowsiness or dizziness. Suspected of damaging fertility. May cause damage to organs through prolonged or repeated

exposure. Harmful to aquatic life with long lasting effects.

03050 Version #: 02 Revision date: 03-30-2015 Issue date: 12-26-2013

### **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. Wash hands thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Do not

breathe gas, mist or vapor. 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 in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention. If

exposed or concerned: Get medical attention.

**Storage** 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)

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	40 - 50
Liquefied Petroleum Gas		68476-86-8	20 - 30
2-Methylpentane		107-83-5	10 - 20
Acrylic copolymer		Proprietary	5 - 10
n-Hexane		110-54-3	1 - 3
White mineral oil		8042-47-5	< 1
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**Take off contaminated clothing and wash before reuse. Rinse skin with water/shower. Get medical

attention if irritation develops and persists.

**Eye contact** Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. 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

Exposed individuals may experience eye tearing, redness, and discomfort. Vapors have a narcotic

cause pulmonary edema and pneumonitis.

Most important symptoms/effects, acute and

delayed

Indication of immediate medical attention and special treatment needed

**General information** 

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

Provide general supportive measures and treat symptomatically. In case of shortness of breath, give oxygen. Keep victim warm. 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

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

for small fires only.

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

media

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.

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. Do not move cargo or vehicle if cargo has been exposed to heat. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out. In the event of fire, cool tanks with water spray.

General fire hazards

Extremely flammable aerosol.

### 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 protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid breathing gas. 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. Do not taste or swallow. Avoid contact with skin and eyes. 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

Осси	national	exposure	limits
Occu	pationai	exposure	111111110

Components	Туре	Value	Form
n-Hexane (CAS 110-54-3)	PEL	1800 mg/m3	
		500 ppm	
White mineral oil (CAS	PEL	5 mg/m3	Mist.
8042-47-5)			
US. ACGIH Threshold Lin	it Values		
Components	Туре	Value	Form
2,2-Dimethylbutane (CAS	STEL	1000 ppm	
75-83-2)		Para Ph.	
,	TWA	500 ppm	
2-Methylpentane (CAS	STEL	1000 ppm	
107-83-5)	<del></del>		
•	TWA	500 ppm	
n-Hexane (CAS 110-54-3)	TWA	50 ppm	
White mineral oil (CAS	TWA	5 mg/m3	Inhalable fraction.
8042-47-5)		3	
US. NIOSH: Pocket Guide	to Chemical Hazards		
Components	Туре	Value	Form
2,2-Dimethylbutane (CAS	Ceiling	1800 mg/m3	
75-83-2)			
		510 ppm	
	TWA	350 mg/m3	
		100 ppm	
2-Methylpentane (CAS	Ceiling	1800 mg/m3	
107-83-5)	-	· ·	
		510 ppm	
	TWA	350 mg/m3	
		100 ppm	
n-Hexane (CAS 110-54-3)	TWA	180 mg/m3	
,		50 ppm	
White mineral oil (CAS	STEL	10 mg/m3	Mist.
8042-47-5)	-	3	
,	TWA	5 mg/m3	Mist.
ogical limit values			
ogical limit values ACGIH Biological Exposu	re Indices		

#### Bio

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

<sup>\* -</sup> 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** 

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

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. Provide eyewash station.

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.

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 appropriate thermal protective clothing, when necessary.

General hygiene considerations

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

**Appearance** 

**Physical state** Liquid. **Form** Aerosol. Color Green. Mild solvent. Odor **Odor threshold** Not available. Not available. pН < -76 °F (< -60 °C) Melting point/freezing point 95 °F (35 °C) estimated

Initial boiling point and boiling

range

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

**Evaporation rate** Very fast. Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits 1 % estimated

Flammability limit - lower (%)

Flammability limit - upper

8 % estimated

1562.8 hPa estimated Vapor pressure

Vapor density > 1 (air = 1)Relative density 0.64 estimated Solubility (water) Negligible. Partition coefficient Not available.

(n-octanol/water)

**Auto-ignition temperature** 

437 °F (225 °C) estimated

**Decomposition temperature** Not available Viscosity (kinematic) Not available. Percent volatile 93 % 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 Heat, flames and sparks. Contact with incompatible materials.

Strong oxidizing agents. Chlorine. Incompatible materials

**Hazardous decomposition** 

products

Carbon oxides.

#### 11. Toxicological information

#### Information on likely routes of exposure

Ingestion May be fatal if swallowed and enters airways.

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.

Skin contact Prolonged skin contact may cause temporary irritation.

Eye contact Causes eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics Exposed individuals may experience eye tearing, redness, and discomfort. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Prolonged or excessive inhalation may cause respiratory tract irritation.

Information on toxicological effects

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

**Product Species Test Results** Chain and Wire Rope Lubricant

Acute Dermal

LD50 Rabbit 3436.5364 mg/kg estimated

Inhalation

LC50 Rat 62747.5625 ppm, 4 hours estimated

53.1125 mg/l, 4 hours estimated

Oral

Rat LD50 8211.2344 mg/kg estimated

Prolonged skin contact may cause temporary irritation. Skin corrosion/irritation

Serious eve damage/eve

Causes eye 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

IARC Monographs. Overall Evaluation of Carcinogenicity

White mineral oil (CAS 8042-47-5) 3 Not classifiable as to carcinogenicity to humans.

Suspected of damaging fertility. Reproductive toxicity

Specific target organ toxicity -

single exposure

Narcotic effects.

Specific target organ toxicity -

repeated exposure

May cause damage to organs through prolonged or repeated exposure.

**Aspiration hazard** May be fatal if swallowed and enters airways.

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

repeated exposure.

## 12. Ecological information

otoxicity	y Harmful to aquatic life with long lasting effects. Accumulation in aquatic organisms is ex		
Product		Species Test Results	
Chain and Wire Rope	Lubricant		
Aquatic			
Crustacea	EC50	Daphnia	2094.2 mg/l, 48 hours estimated
Fish	LC50	Fish	1557.55 mg/l, 96 hours estimated
Components		Species	Test Results
n-Hexane (CAS 110-5	i4-3)		
Aquatic			
Fish	LC50	Fathead minnow (Pimeph	nales promelas) 2.101 - 2.981 mg/l, 96 hours

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

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

Bioaccumulative potential No data available.

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<sup>\*</sup> Estimates for product may be based on additional component data not shown.

Partition coefficient n-octanol / water (log Kow)

2,2-Dimethylbutane 3.82 3.74 2-Methylpentane 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. Empty container can be recycled. 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

**UN** number UN1950

**UN** proper shipping name Aerosols, flammable, limited quantity

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

UN1950 UN number

UN proper shipping name Transport hazard class(es)

Aerosols, flammable, limited quantity

2.1 Class Subsidiary risk

Not applicable. Packing group

**Environmental hazards ERG Code** 10L

Other information

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

Passenger and cargo

aircraft

Allowed.

Cargo aircraft only

Allowed.

**IMDG** 

**UN number** UN1950

**UN** proper shipping name AEROSOLS, LIMITED QUANTITY

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Transport hazard class(es)

2 Class Subsidiary risk

Not applicable. Packing group

**Environmental hazards** 

Marine pollutant Nο

**EmS** Not available.

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

### 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.

#### SARA 304 Emergency release notification

Not regulated.

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

Not listed

#### 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)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

**Food and Drug** 

Not regulated.

Administration (FDA)

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

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

Reactivity Hazard - No

v No

SARA 302 Extremely 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)

n-Hexane (CAS 110-54-3)

#### **US. Massachusetts RTK - Substance List**

2-Methylpentane (CAS 107-83-5)

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)

White mineral oil (CAS 8042-47-5)

#### **US. Rhode Island RTK**

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 92.1 %

51.100(s))

**Consumer products** (40 CFR 59, Subpt. C) Not regulated

State

**Consumer products** 

This product is regulated as a Gear, Chain or Wire Lubricant (aerosol). This product is not

compliant to be sold for use in California. This product is compliant in all other states.

92.1 % VOC content (CA) VOC content (OTC) 92.1 %

#### **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 (PICCS)	Yes

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

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

12-26-2013 Issue date **Revision date** 03-30-2015 Prepared by Allison Cho

Version # 02

**Further information** CRC # 572B-E **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.

Yes

<sup>\*</sup>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).