# CRC.

# SAFETY DATA SHEET

#### 1. Identification

Product identifier Nickel Anti-Seize Lubricating Compound

Other means of identification

Product code SL35911, SL35913

Recommended use Anti-seize lubricant

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufactured or sold by:

Company name CRC Industries, Inc.

Address 885 Louis Dr.

Warminster, PA 18974 US

Telephone

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

**Assistance** 

 Customer Service
 800-272-4620

 24-Hour Emergency
 800-424-9300 (US)

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

# 2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Sensitization, skin Category 1

Carcinogenicity Category 2
Specific target organ toxicity, repeated Category 1

exposure

Environmental hazards Hazardous to the aquatic environment, acute Category 2

hazard

Hazardous to the aquatic environment,

long-term hazard

OSHA defined hazards Not classified.

Label elements





Signal word Danger

Hazard statement May cause an allergic skin reaction. Suspected of causing cancer. Causes damage to organs

(respiratory tract) through prolonged or repeated exposure by inhalation. Toxic to aquatic life.

Category 3

Harmful 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. Do not breathe vapors. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. Avoid

release to the environment.

**Response** If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical attention. Get

medical advice/attention if you feel unwell. Wash contaminated clothing before reuse. If exposed

or concerned: Get medical attention.

Storage Store locked up.

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

None known.

## **Supplemental information**

82.41% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

# 3. Composition/information on ingredients

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Chemical name	Common name and synonyms	CAS number	%
Distillates (petroleum), hydrotreated heavy naphthenic		64742-52-5	50 - 60
Graphite		7782-42-5	10 - 20
Nickel		7440-02-0	10 - 20
Residual oils (petroleum), hydrotreated		64742-57-0	10 - 20

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

## 4. First-aid measures

4. I II St-alu Illeasures	
Inhalation	If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Ingestion	Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately.
Most important symptoms/effects, acute and delayed	May cause an allergic skin reaction. Dermatitis. Rash. Prolonged exposure may cause chronic effects.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
General information	IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.
5. Fire-fighting measures	

Suitable extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire. Carbon dioxide (CO2).
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire-fighting equipment/instructions	Move containers from fire area if you can do so without risk.
General fire hazards	No unusual fire or explosion hazards noted.

## 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. 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 the flow of material, if this is without risk. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.	
Environmental precautions	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases.	

# 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. Provide adequate ventilation. Do not breathe vapor. Avoid contact with eyes, skin, and clothing. When using, do not eat, drink or smoke. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices. Avoid release to the environment. For product usage instructions, please see the product label.

Conditions for safe storage, including any incompatibilities

Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

# 8. Exposure controls/personal protection

Components	Туре	Value	Form
Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)	PEL	5 mg/m3	Mist.
· · · · · · · · · · · · · · · · · · ·		2000 mg/m3	
		500 ppm	
Graphite (CAS 7782-42-5)	PEL	5 mg/m3	Respirable fraction.
,		15 mg/m3	Total dust.
Nickel (CAS 7440-02-0)	PEL	1 mg/m3	
Residual oils (petroleum), hydrotreated (CAS 64742-57-0)	PEL	5 mg/m3	Mist.
US. OSHA Table Z-3 (29 CFI	R 1910.1000)		
Components	Туре	Value	
Graphite (CAS 7782-42-5)	TWA	15 mppcf	
US. ACGIH Threshold Limit	Values		
Components	Туре	Value	Form
Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)	TWA	5 mg/m3	Inhalable fraction.
Graphite (CAS 7782-42-5)	TWA	2 mg/m3	Respirable fraction.
Nickel (CAS 7440-02-0)	TWA	1.5 mg/m3	Inhalable fraction.
Residual oils (petroleum), hydrotreated (CAS 64742-57-0)	TWA	5 mg/m3	Inhalable fraction.
US. NIOSH: Pocket Guide to	Chemical Hazards		
Components	Туре	Value	Form
Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)	Ceiling	1800 mg/m3	
	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.
Graphite (CAS 7782-42-5)	TWA	2.5 mg/m3	Respirable.
Nickel (CAS 7440-02-0)	TWA	0.015 mg/m3	
Residual oils (petroleum), hydrotreated (CAS 64742-57-0)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.
ogical limit values	No biological exposure limits noted for the ingredient(s).		
osure guidelines	Occupational Exposure Limits are not relevant to the current physical form of the product.		
propriate engineering trols	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 ventilatior or other engineering controls to maintain airborne levels below recommended exposure limits. It exposure limits have not been established, maintain airborne levels to an acceptable level.		

Individual protection measures, such as personal protective equipment

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

Skin protection

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

Wear appropriate chemical resistant clothing. Other

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.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

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. Contaminated work clothing should not be allowed out of the

workplace.

# 9. Physical and chemical properties

**Appearance** 

Solid. **Physical state** 

Semi-solid paste. **Form** 

Silver. Color Odor Petroleum. Not available. **Odor threshold** 

Neutral.

Melting point/freezing point > 449.6 °F (> 232 °C) > 500 °F (> 260 °C) Initial boiling point and boiling

range

> 449.6 °F (> 232 °C) Cleveland Open Cup Flash point

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

Flammability limit - lower

(%)

Not available.

Flammability limit - upper

Not available.

(%)

Vapor pressure < 0.1 mm Ha Vapor density > 5 (air = 1)1.24 Relative density Solubility (water) Insoluble. **Partition coefficient** 

(n-octanol/water)

Not available.

**Auto-ignition temperature** > 500 °F (> 260 °C) **Decomposition temperature** Not available. Not available. **Viscosity (kinematic)** Percent volatile 15.2 % 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.

Contact with incompatible materials. Conditions to avoid

Strong acids. Chlorine. Strong oxidizing agents. Incompatible materials

Hazardous decomposition Carbon oxides. Hydrocarbon fumes and smoke. Metal oxides.

products

# 11. Toxicological information

Information on likely routes of exposure

InhalationProlonged inhalation may be harmful.Skin contactMay cause an allergic skin reaction.

**Eye contact** Direct contact with eyes may cause temporary irritation.

**Ingestion** Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics

May cause an allergic skin reaction. Dermatitis. Rash.

Information on toxicological effects

Acute toxicity May cause an allergic skin reaction.

Product Species Test Results

Nickel Anti-Seize Lubricating Compound

Acute Dermal

LD50 Rabbit 3841 mg/kg estimated

Oral

LD50 Rat 3181 mg/kg estimated

**Skin corrosion/irritation** Prolonged skin contact may cause temporary irritation. **Serious eye damage/eye** Direct contact with eyes may cause temporary irritation.

irritation

**Respiratory sensitization** Not a respiratory sensitizer.

**Skin sensitization** May cause an allergic skin reaction.

**Germ cell mutagenicity**No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity Suspected of causing cancer.

IARC Monographs. Overall Evaluation of Carcinogenicity

Nickel (CAS 7440-02-0) 2B Possibly carcinogenic to humans.

US. National Toxicology Program (NTP) Report on Carcinogens

Nickel (CAS 7440-02-0) Reasonably Anticipated to be a Human Carcinogen.

**Reproductive toxicity**This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Causes damage to organs through prolonged or repeated exposure.

**Aspiration hazard** Not an aspiration hazard.

Chronic effects Causes damage to organs through prolonged or repeated exposure. Prolonged exposure may

cause chronic effects.

## 12. Ecological information

Ecotoxicity	Toxic to aquatic life. Harmful to aquatic life with long lasting effects.		
Product	Species Test Results		Test Results
Nickel Anti-Seize Lul	bricating Compound		
Aquatic			
Fish	LC50	Fish	636.497 mg/l, 96 hours estimated
Acute			
Crustacea	FC50	Daphnia	568.4208 mg/l, 48 hours estimated

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

**Test Results** Components **Species** 

Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)

Aquatic

EC50 Crustacea Water flea (Daphnia magna) 1000 mg/l, 48 hours Fish LC50 Rainbow trout, donaldson trout 5000 mg/l, 96 hours

(Oncorhynchus mykiss)

Graphite (CAS 7782-42-5)

Aquatic Acute

LC50 Fish Fish > 1800 mg/l, 96 hours

Nickel (CAS 7440-02-0)

Aquatic

LC50 Fish Pumpkinseed (Lepomis gibbosus) 8 mg/l, 96 hours

Acute

EC50 Crustacea Water flea (Daphnia magna) > 100 mg/l, 48 hours

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

Bioaccumulative potential No data available. 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 This product is not a RCRA hazardous waste (See 40 CFR Part 261.20 – 261.33). Empty containers may be recycled. Collect and reclaim or dispose in sealed containers at licensed waste disposal site. 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

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

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

# 15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

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

Not listed.

SARA 304 Emergency release notification

Not regulated.

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

Nickel (CAS 7440-02-0)

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

Nickel (CAS 7440-02-0) Listed.

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

### **CERCLA Hazardous Substances: Reportable quantity**

Nickel (CAS 7440-02-0)

100 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

Nickel (CAS 7440-02-0)

## 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 Delayed Hazard - Yes **Hazard categories** Fire Hazard - No

Pressure Hazard - No Reactivity Hazard - No

**SARA 302 Extremely** 

hazardous substance

#### **US** state regulations

# US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd.

(a))

Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)

Nickel (CAS 7440-02-0)

Residual oils (petroleum), hydrotreated (CAS 64742-57-0)

No

# 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

Graphite (CAS 7782-42-5)

Nickel (CAS 7440-02-0)

Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)

Residual oils (petroleum), hydrotreated (CAS 64742-57-0)

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

Graphite (CAS 7782-42-5)

Nickel (CAS 7440-02-0)

Residual oils (petroleum), hydrotreated (CAS 64742-57-0)

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

Nickel (CAS 7440-02-0)

Graphite (CAS 7782-42-5)

Residual oils (petroleum), hydrotreated (CAS 64742-57-0)

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

Nickel (CAS 7440-02-0)

#### **US. California Proposition 65**

WARNING: This product contains a chemical known to the State of California to cause cancer.

## US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Nickel (CAS 7440-02-0) Listed: October 1, 1989

## Volatile organic compounds (VOC) regulations

**EPA** 

VOC content (40 CFR

51.100(s))

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

State

**Consumer products** 

This product is regulated as an Anti-seize Lubricant (non-aerosol). This product is compliant for

use in all 50 states.

0 %

VOC content (CA)

0 % VOC content (OTC)

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

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 date 07-21-2015 Prepared by Allison Cho

Version #

United States & Puerto Rico

**Further information** Not available. **HMIS®** ratings Health: 2\* Flammability: 1 Physical hazard: 0 Personal protection: B

Health: 2 NFPA ratings Flammability: 1

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