

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/Supplie	r/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 exposure	Category 1
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 2
	Hazardous to the aquatic environment, long-term hazard	Category 3
OSHA defined hazards	Not classified.	
Label elements		
Signal word	Danger	
Signal word Hazard statement	May cause an allergic skin reaction. Suspecte (respiratory tract) through prolonged or repeat	d of causing cancer. Causes damage to organs ed exposure by inhalation. Toxic to aquatic life.
Hazard statement	May cause an allergic skin reaction. Suspecte (respiratory tract) through prolonged or repeat Harmful to aquatic life with long lasting effects	ed exposure by inhalation. Toxic to aquatic life.
•	May cause an allergic skin reaction. Suspecte (respiratory tract) through prolonged or repeat Harmful to aquatic life with long lasting effects Obtain special instructions before use. Do not	handle until all safety precautions have been read thoroughly after handling. Do not eat, drink or work clothing must not be allowed out of the
Hazard statement Precautionary statement	May cause an allergic skin reaction. Suspecte (respiratory tract) through prolonged or repeat Harmful to aquatic life with long lasting effects Obtain special instructions before use. Do not and understood. Do not breathe vapors. Wash smoke when using this product. Contaminated workplace. Wear protective gloves/protective of release to the environment. If on skin: Wash with plenty of water. If skin irr	handle until all safety precautions have been read thoroughly after handling. Do not eat, drink or work clothing must not be allowed out of the
Hazard statement Precautionary statement Prevention	May cause an allergic skin reaction. Suspecte (respiratory tract) through prolonged or repeat Harmful to aquatic life with long lasting effects Obtain special instructions before use. Do not and understood. Do not breathe vapors. Wash smoke when using this product. Contaminated workplace. Wear protective gloves/protective of release to the environment. If on skin: Wash with plenty of water. If skin irr medical advice/attention if you feel unwell. Wa	handle until all safety precautions have been read handle until all safety precautions have been read thoroughly after handling. Do not eat, drink or d work clothing must not be allowed out of the clothing/eye protection/face protection. Avoid itation or rash occurs: Get medical attention. Get

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

Mixtures

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	
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

Occupational exposure limits

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

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 CF	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 t	o 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.
logical limit values	No biological exposure limits noted	for the ingredient(s).	
osure guidelines	Occupational Exposure Limits are n		al form of the product.
propriate engineering ntrols Good general ventilation (typically 10 air changes per hour) should be used. Ventilatio should be matched to conditions. If applicable, use process enclosures, local exhaust or other engineering controls to maintain airborne levels below recommended exposure exposure limits have not been established, maintain airborne levels to an acceptable		res, local exhaust ventilatio mmended exposure limits. I	

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). 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. Thermal hazards Wear appropriate thermal protective clothing, when necessary. **General hygiene** 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 considerations equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

9. Physical and chemical properties

Appearance			
Physical state	Solid.		
Form	Semi-solid paste.		
Color	Silver.		
Odor	Petroleum.		
Odor threshold	Not available.		
рН			
Melting point/freezing point	> 449.6 °F (> 232 °C)		
Initial boiling point and boiling range	> 500 °F (> 260 °C)		
Flash point	> 449.6 °F (> 232 °C) Cleveland Open Cup		
Evaporation rate	Very slow.		
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 Hg		
Vapor density	> 5 (air = 1)		
Relative density	1.24		
Solubility (water)	Insoluble.		
Partition coefficient (n-octanol/water)	Not available.		
Auto-ignition temperature	> 500 °F (> 260 °C)		
Decomposition temperature	Not available.		
Viscosity (kinematic)	Not available.		
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.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Strong acids. Chlorine. Strong oxidizing agents.
Hazardous decomposition products	Carbon oxides. Hydrocarbon fumes and smoke. Metal oxides.

11. Toxicological information

Information on likely routes of exposure Prolonged inhalation may be harmful. Inhalation May cause an allergic skin reaction. Skin contact Eve contact Direct contact with eyes may cause temporary irritation. Expected to be a low ingestion hazard. Ingestion Symptoms related to the May cause an allergic skin reaction. Dermatitis. Rash. physical, chemical and toxicological characteristics Information on toxicological effects May cause an allergic skin reaction. Acute toxicity Product **Species Test Results** Nickel Anti-Seize Lubricating Compound **Acute** Dermal LD50 Rabbit 3841 mg/kg estimated Oral LD50 Rat 3181 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 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. No data available to indicate product or any components present at greater than 0.1% are Germ cell mutagenicity 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. Not classified. Specific target organ toxicity -

single exposure	
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 a	Toxic to aquatic life. Harmful to aquatic life with long lasting effects.		
Product		Species	Test Results	
Nickel Anti-Seize Lubr	icating Compound			
Aquatic				
Fish	LC50	Fish	636.497 mg/l, 96 hours estimated	
Acute				
Crustacea	EC50	Daphnia	568.4208 mg/l, 48 hours estimated	

Components		Species	Test Results
Distillates (petroleum), hydr	otreated heavy	naphthenic (CAS 64742-52-5)	
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	1000 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	5000 mg/l, 96 hours
Graphite (CAS 7782-42-5)			
Aquatic			
Acute			
Fish	LC50	Fish	> 1800 mg/l, 96 hours
Nickel (CAS 7440-02-0)			
Aquatic			
Fish	LC50	Pumpkinseed (Lepomis gibbosus)	8 mg/l, 96 hours
Acute			
Crustacea	EC50	Water flea (Daphnia magna)	> 100 mg/l, 48 hours
* Estimates for product may	be based on a	dditional component data not shown.	
rsistence and degradability	No data is a	available on the degradability of this produ	ct.
accumulative potential	No data ava	ailable.	
bility in soil	No data ava	ailable.	
ner adverse effects		dverse environmental effects (e.g. ozone de ndocrine disruption, global warming potent	
3. Disposal considerati	ons		

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	ninated packaging Since emptied containers may retain product residue, follow label warnings even after con emptied. Empty containers should be taken to an approved waste handling site for recyclir disposal.	

14. Transport information

DOT

Not regulated as dangerous goods.

ΙΑΤΑ

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) Expe	ort Notification (40 CFR 707, Subpt. D)
Not regulated.	
US. OSHA Specifically R	egulated Substances (29 CFR 1910.1001-1050)
Not listed.	
SARA 304 Emergency re	lease notification
Not regulated.	
US EPCRA (SARA Title I	II) Section 313 - Toxic Chemical: Listed substance
Nickel (CAS 7440-02-	0)
CERCLA Hazardous Sub	stance List (40 CFR 302.4)
Nickel (CAS 7440-02-	0) Listed.

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)
 Not regulated.

Administration (FDA)

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Section 311/312 Hazard categories	Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No	
SARA 302 Extremely hazardous substance	No	

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)

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

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Nickel (CAS 7440-02-0) Listed: October 1, 1989
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Volatile organic compounds (VOC) regulations

EPA	
VOC content (40 CFR 51.100(s))	0 %
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.
VOC content (CA)	0 %
VOC content (OTC)	0 %

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
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, including date of preparation or last revision

Issue date	07-21-2015
Prepared by	Allison Cho
Version #	01
Further information	Not available.
HMIS® ratings	Health: 2* Flammability: 1 Physical hazard: 0 Personal protection: B
NFPA ratings	Health: 2 Flammability: 1 Instability: 0
NFPA ratings	

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