



SAFETY DATA SHEET

1. Identification

Product identifier	Nickel Anti-Seize & Lubricating Compound - 16 oz
Other means of identification	
Product Code	No. SL35913 (Item# 1007948)
Recommended use	Anti-seize and lubricating compound
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	800-556-5074
24-Hour Emergency (CHEMTREC)	800-424-9300 (US)
Website	crcindustries.com

2. Hazard(s) identification

Physical hazards	Not classified.	
Health hazards	Sensitization, skin	Category 1
	Specific target organ toxicity, repeated exposure	Category 1
Environmental hazards	Not classified.	
OSHA defined hazards	Not classified.	
Label elements		



Signal word	Danger
Hazard statement	May cause an allergic skin reaction. Causes damage to organs through prolonged or repeated exposure.
Precautionary statement	
Prevention	Use only outdoors or in a well-ventilated area. 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. Do not breathe dust. Do not eat, drink or smoke when using this product. Contaminated work clothing must not be allowed out of the workplace. Wash thoroughly after handling. Wear protective gloves.
Response	If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. Get medical advice/attention if you feel unwell.
Storage	Store away from incompatible materials.
Disposal	Dispose of contents/container in accordance with local/regional/national regulations.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
distillates (petroleum), solvent-refined heavy naphthenic		64741-96-4	60 - 70
graphite		7782-42-5	10 - 20
nickel		7440-02-0	5 - 15
aluminum		7429-90-5	1 - 5
amorphous silica		7631-86-9	1 - 5

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

4. First-aid measures

Inhalation	Move to fresh air. 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. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
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	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	Carbon dioxide (CO2). Water Spray or Fog. Foam.
Unsuitable extinguishing media	None known.
Specific hazards arising from the chemical	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	Move containers from fire area if you can do so without risk. Use standard firefighting procedures and consider the hazards of other involved materials.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
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	The product is immiscible with water and will sediment in water systems. Stop the flow of material, if this is without risk. 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. Sweep up or vacuum up spillage and collect in suitable container for disposal. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling	Do not breathe dust. Avoid contact with eyes, skin, and clothing. When using, do not eat, drink or smoke. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices. For product usage instructions, see the product label.
Conditions for safe storage, including any incompatibilities	Store in a cool, dry place out of direct sunlight. Keep container tightly closed. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

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

Components	Type	Value	Form
aluminum (CAS 7429-90-5)	PEL	5 mg/m ³	Respirable fraction.
		15 mg/m ³	Total dust.
distillates (petroleum), solvent-refined heavy naphthenic (CAS 64741-96-4)	PEL	5 mg/m ³	Mist.
		2000 mg/m ³	
graphite (CAS 7782-42-5)	PEL	500 ppm	
		5 mg/m ³	Respirable fraction.
nickel (CAS 7440-02-0)	PEL	15 mg/m ³	Total dust.
		1 mg/m ³	

US. OSHA Table Z-3 (29 CFR 1910.1000)

Components	Type	Value	Form
aluminum (CAS 7429-90-5)	TWA	5 mg/m ³	Respirable fraction.
		15 mg/m ³	Total dust.
		50 mppcf	Total dust.
		15 mppcf	Respirable fraction.
amorphous silica (CAS 7631-86-9)	TWA	5 mg/m ³	Respirable fraction.
		15 mg/m ³	Total dust.
		0.8 mg/m ³	
		20 mppcf	
graphite (CAS 7782-42-5)	TWA	15 mppcf	

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
aluminum (CAS 7429-90-5)	TWA	1 mg/m ³	Respirable fraction.
distillates (petroleum), solvent-refined heavy naphthenic (CAS 64741-96-4)	TWA	5 mg/m ³	Inhalable fraction.
graphite (CAS 7782-42-5)	TWA	2 mg/m ³	Respirable fraction.
nickel (CAS 7440-02-0)	TWA	1.5 mg/m ³	Inhalable fraction.

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value	Form
aluminum (CAS 7429-90-5)	TWA	5 mg/m ³	Respirable.
		5 mg/m ³	Welding fume or pyrophoric powder.
		10 mg/m ³	Total
amorphous silica (CAS 7631-86-9)	TWA	6 mg/m ³	
distillates (petroleum), solvent-refined heavy naphthenic (CAS 64741-96-4)	Ceiling	1800 mg/m ³	
graphite (CAS 7782-42-5)	STEL	10 mg/m ³	Mist.
	TWA	2.5 mg/m ³	Respirable.

Components	Type	Value	Form
nickel (CAS 7440-02-0)	TWA	0.015 mg/m ³	

Biological limit values**ACGIH Biological Exposure Indices**

Components	Value	Determinant	Specimen	Sampling Time
nickel (CAS 7440-02-0)	5 µg/l	Nickel	Urine	*

* - For sampling details, please see the source document.

Exposure guidelines

Occupational Exposure Limits are not relevant to the current physical form of the product.

Appropriate engineering controls

Good general ventilation 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.

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.

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. Wear a dust mask if dust is generated above exposure limits. 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**Physical state**

Solid.

Form

Paste.

Color

Silver.

Odor

Mild.

Odor threshold

Not available.

pH

Not available.

Melting point/freezing point

1220 °F (660 °C) estimated

Initial boiling point and boiling range

680 °F (360 °C) estimated

Flash point

425.0 °F (218.3 °C) Cleveland Open Cup

Evaporation rate

Not available.

Flammability (solid, gas)

Not available.

Upper/lower flammability or explosive limits**Explosive limit - lower (%)**

Not available.

Explosive limit - upper (%)

Not available.

Vapor pressure

330055.3 hPa estimated

Vapor density

Not available.

Relative density

1.18

Solubility(ies)**Solubility (water)**

Insoluble.

Partition coefficient (n-octanol/water)

Not available.

Auto-ignition temperature	500 °F (260 °C) estimated
Decomposition temperature	Not available.
Viscosity	Not available.

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	Oxidizing material.
Hazardous decomposition products	Carbon oxides. Metal oxides.

11. Toxicological information

Information on likely routes of exposure

Inhalation	No adverse effects due to inhalation are expected.
Skin contact	May 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 Not known.

Components	Species	Test Results
aluminum (CAS 7429-90-5)		
<u>Acute</u>		
Oral		
LD50	Rat	> 15900 mg/kg
amorphous silica (CAS 7631-86-9)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 6000 mg/kg
Oral		
LD50	Rat	> 5000 mg/kg
distillates (petroleum), solvent-refined heavy naphthenic (CAS 64741-96-4)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 5000 mg/kg
Oral		
LD50	Rat	> 5000 mg/kg
graphite (CAS 7782-42-5)		
<u>Acute</u>		
Oral		
LD50	Rat	> 10000 mg/kg
nickel (CAS 7440-02-0)		
<u>Acute</u>		
Dermal		
LD50	Rat	> 9000 mg/kg
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.	

Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.
Respiratory or skin sensitization	
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	Not classifiable as to carcinogenicity to humans.
IARC Monographs. Overall Evaluation of Carcinogenicity	
amorphous silica (CAS 7631-86-9)	3 Not classifiable as to carcinogenicity to humans.
distillates (petroleum), solvent-refined heavy naphthenic (CAS 64741-96-4)	3 Not classifiable as to carcinogenicity to humans.
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)	
Not listed.	
US. National Toxicology Program (NTP) Report on Carcinogens	
Not listed.	
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	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
Persistence and degradability	No data is available on the degradability of any ingredients in the mixture.
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 instructions	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. Dispose in accordance with all applicable regulations.
Hazardous waste code	Not regulated.
	However, it is the generator's responsibility to determine the proper classification and disposal method at the time of disposal.
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	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.
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SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

nickel (CAS 7440-02-0)

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.

Toxic Substances Control Act (TSCA)

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

Not regulated.

Other federal regulations

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 (SDWA) Not regulated.

Food and Drug Administration (FDA) Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Classified hazard categories Respiratory or skin sensitization
Specific target organ toxicity (single or repeated exposure)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical Yes

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.
nickel	7440-02-0	5 - 15

US state regulations

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

Aluminum (CAS 7429-90-5)
Distillates (petroleum), solvent-refined heavy naphthenic; Baseoil - unspecified (CAS 64741-96-4)

US. New Jersey Worker and Community Right-to-Know Act

ALUMINUM (CAS 7429-90-5)
GRAPHITE (NATURAL) (CAS 7782-42-5)
NICKEL (CAS 7440-02-0)

US. Massachusetts RTK - Substance List

Aluminum (CAS 7429-90-5)
Graphite (natural) dust (CAS 7782-42-5)
Nickel (CAS 7440-02-0)
Oil mist (mineral) (CAS 64741-96-4)
Silica, amorphous (CAS 7631-86-9)

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

Aluminum (CAS 7429-90-5)
Graphite (CAS 7782-42-5)
Nickel (CAS 7440-02-0)
Silica (CAS 7631-86-9)

US. Rhode Island RTK

ALUMINUM (DUST OR POWDER),METAL & OXIDE, WELDING FUMES, (CAS 7429-90-5)
GRAPHITE (NATURAL) (CAS 7782-42-5)
LUBRICATING OIL (MINERAL) (CAS 64741-96-4)
NICKEL CATALYST (FINELY DIVIDED, ACTIVATED, OR SPENT) (CAS 7440-02-0)
NUISANCE PARTICULATES (CAS 7631-86-9)

California Proposition 65**WARNING:** Cancer and Reproductive Harm - www.P65Warnings.ca.gov**California Proposition 65 - CRT: Listed date/Carcinogenic substance**

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

California Proposition 65 - CRT: Listed date/Developmental toxin

nickel (soluble compounds) (CAS s~ni~d) Listed: October 26, 2018

California Proposition 65 - CRT: Listed date/Male reproductive toxin

nickel (soluble compounds) (CAS s~ni~d) Listed: October 26, 2018

Volatile organic compounds (VOC) regulations**EPA****VOC content (40 CFR 51.100(s))** 1.8 %**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)** 1.8 %**VOC content (OTC)** 1.8 %**International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS)	Yes
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)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	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	08-19-2019
Revision date	08-18-2023
Prepared by	Joshua Weir
Version #	02

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 Industries, Inc..

Revision information

Product and Company Identification: Product Codes
Hazard(s) identification: Prevention
Composition / Information on Ingredients: Ingredients
First-aid measures: Eye contact
Physical & Chemical Properties: Multiple Properties
Physical and chemical properties: Odor
Disposal considerations: Hazardous waste code
HazReg Data: North America
GHS: Classification