



Material Safety Data Sheet

Section 1: Product & Company Identification

Product Name: Nuclear Grade Anti Seize

Product Number (s): SL35920, SL35921

Manufactured By:

CRC Industries, Inc.
885 Louis Drive
Warminster, PA 18974
www.crcindustries.com

General Information	(215) 674-4300
Technical Assistance	(800) 521-3168
Customer Service	(800) 272-4620
24-Hr Emergency (CHEMTREC)	(800) 424-9300

Section 2: Hazards Identification

Emergency Overview

Appearance & Odor: Silver semisolid paste, mild odor

As defined by OSHA's Hazard Communication Standard, this product is hazardous.

Potential Health Effects:

EYE: This product may cause irritation.

SKIN: For hypersensitive persons, this product may irritate the skin after prolonged periods of time.

INHALATION: The viscous nature of this product may block breathing passages if inhaled.

INGESTION: This product may cause diarrhea.

CHRONIC EFFECTS: None known.

TARGET ORGANS: None known.

Medical Conditions Aggravated by Exposure:

Pre-existing skin sensitivities

See Section 11 for toxicology and carcinogenicity information on product ingredients.

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Section 3: Composition/Information on Ingredients

COMPONENT	CAS NUMBER	% by Wt.
Nonhazardous Blend	9003-29-6 / 68037-01-4 / 82980-54-9 / 8042-47-5	50 – 90
Graphite	7782-42-5	1 – 10
Nickel Powder	7440-02-0	20 – 30

Section 4: First Aid Measures

- Eye Contact:** Immediately flush with plenty of water for 15 minutes. Call a physician if irritation persists.
- Skin Contact:** Remove contaminated clothing and wash affected area with soap and water. Call a physician if irritation persists. Wash contaminated clothing prior to re-use.
- Inhalation:** Remove person to fresh air. Keep person calm. If not breathing, give artificial respiration. If breathing is difficult give oxygen. Call a physician.
- Ingestion:** Wash out mouth immediately. Do not induce vomiting. Call a physician.
- Note to Physicians:* Treat symptomatically.
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Section 5: Fire-Fighting Measures

- Flammable Properties:** As defined by OSHA, this product is nonflammable.
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|----------------------------------|-------------|---------------------------------|----|
| Flash Point: | 430°F (COC) | Upper Explosive L limit: | ND |
| Autoignition Temperature: | > 500°F | Lower Explosive Limit: | ND |
- Suitable Extinguishing Media:** Foam, dry powder, Halon®, carbon dioxide, sand, earth and water mist
- Products of Combustion:** Smoke, airborne soot, hydrocarbons, oxides of carbon and possible metal carbonyls
- Protection of Fire-Fighters:** Firefighters should wear self-contained, NIOSH-approved breathing apparatus for protection against suffocation and possible toxic decomposition products. Proper eye and skin protection should be provided. Use water spray to keep fire-exposed containers cool and to knock down vapors which may result from product decomposition.
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Section 6: Accidental Release Measures

- Personal Precautions:** Use personal protection recommended in Section 8. Wear gloves and protective overalls.
- Environmental Precautions:** Take precautions to prevent contamination of ground and surface waters. Do not flush into sewers or storm drains.
- Methods for Containment & Clean-up:** Dike area to contain spill. Ventilate the area with fresh air. If in confined space or limited air circulation area, clean-up workers should wear appropriate respiratory protection. Scrape up bulk, then wipe up remainder

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with cloth. To prevent walking hazard, pick up remaining residue with diatomaceous earth. Place used absorbents into proper waste containers.

Section 7: Handling and Storage

Handling Procedures: Provide adequate ventilation during use. Wear appropriate personal protective equipment. Use good hygiene practices.

Storage Procedures: Store in a cool dry area out of direct sunlight. Keep containers closed when not in use.

Aerosol Storage Level: NA

Section 8: Exposure Controls/Personal Protection

Exposure Guidelines:

COMPONENT	OSHA		ACGIH		OTHER		UNIT
	TWA	STEL	TWA	STEL	TWA	SOURCE	
Nonhazardous Blend	NE	NE	NE	NE	NE		
Graphite	2.5 (v)	NE	2	NE	2.5	NIOSH	mg/m ³
Nickel Powder	1	NE	1.5	NE	0.015	NIOSH	mg/m ³
N.E. – Not Established (c) – ceiling (s) – skin (v) – vacated							

Engineering Controls: Area should have ventilation to provide fresh air. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at the source, preventing dispersion into the general work area. Use mechanical means if necessary to maintain vapor levels below the exposure guidelines. If working in a confined space, follow applicable OSHA regulations.

Respiratory Protection: None required for normal work where adequate ventilation is provided. If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a NIOSH-approved cartridge respirator with organic vapor cartridge. Use a self-contained breathing apparatus in confined spaces and for emergencies.

Eye/face Protection: For normal conditions, wear safety glasses. Where there is reasonable probability of liquid contact, wear splash-proof goggles.

Skin Protection: Use protective gloves such as nitrile or PVC. Also, use full protective clothing if there is prolonged or repeated contact of liquid with skin.

Section 9: Physical and Chemical Properties

Physical State: Semisolid paste

Color: Silver

Odor: Mild

Specific Gravity: 1.16

Initial Boiling Point: < 600°F

Freezing Point: ND

Vapor Pressure: < 0.01 kPa

Vapor Density: > 5 (air = 1)

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Evaporation Rate: < 0.01 (butyl acetate = 1)

Solubility: Negligible

pH: NA

Volatile Organic Compounds: wt %: 0 g/L: 0 lbs./gal: 0

Section 10: Stability and Reactivity

Stability: Stable

Conditions to Avoid: Powerful sources of ignition and extreme temperatures.

Incompatible Materials: Strong inorganic and organic acids, and oxidizing agents

Hazardous Decomposition Products: Burning generates smoke, airborne soot, hydrocarbons, oxides of carbons, and possible metal carbonyls

Possibility of Hazardous Reactions: No

Section 11: Toxicological Information

Long-term toxicological studies have not been conducted for this product. The following information is available for components of this product.

ACUTE EFFECTS

<u>Component</u>	<u>Test</u>	<u>Result</u>	<u>Route</u>	<u>Species</u>
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No information available

CHRONIC EFFECTS

Carcinogenicity:

	<u>Component</u>	<u>Result</u>
OSHA:	None listed	
IARC:	Nickel	2B: Possibly carcinogenic to humans
NTP:	Nickel	Reasonably anticipated to be a human carcinogen

Mutagenicity: No information available

Other: None

Section 12: Ecological Information

Ecological studies have not been conducted for this product. The following information is available for components of this product.

Ecotoxicity: No information available.
Persistence / Degradability: No information available.
Bioaccumulation / Accumulation: Bioaccumulation potential nil.
Mobility in Environment: Highly unlikely to cause widespread contamination.

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Section 13: Disposal Considerations

Disposal: This product is not a RCRA hazardous waste. (See 40 CFR Part 261.20 – 261.33)
Empty containers may be recycled.

All disposal activities must comply with federal, state and local regulations. Local regulations may be more stringent than state or national requirements.

Section 14: Transport Information

Proper shipping description:

US DOT (ground): Not Regulated

Special Provisions: None

Section 15: Regulatory Information

U.S. Federal

Toxic Substances Control Act (TSCA):

All ingredients are either listed on the TSCA inventory or are exempt.

Comprehensive Environmental Response, Compensation and Liability Act (CERCLA):

Reportable Quantities (RQ's) exist for the following ingredients: Nickel (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.

Superfund Amendments Reauthorization Act (SARA) Title III:

Section 302 Extremely Hazardous Substances (EHS): None

Section 311/312 Hazard Categories:	Fire Hazard	No
	Reactive Hazard	No
	Release of Pressure	No
	Acute Health Hazard	Yes
	Chronic Health Hazard	Yes

Section 313 Toxic Chemicals: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:
Nickel (< 30%)

Clean Air Act:

Section 112 Hazardous Air Pollutants (HAPs): Nickel

State Regulations

California Safe Drinking Water and Toxic Enforcement Act (Prop 65):

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This product may contain the following chemicals known to the state of California to cause cancer, birth defects or other reproductive harm: Nickel

State Right to Know:

New Jersey: 7782-42-5, 7440-02-0
Pennsylvania: 7782-42-5, 7440-02-0
Massachusetts: 7782-42-5, 7440-02-0
Rhode Island : 7782-42-5, 7440-02-0

Additional Regulatory Information: None

Section 16: Other Information

NFPA: Health: 1 Flammability: 1 Reactivity: 0
HMIS: Health: 1 Flammability: 1 Reactivity: 0 PPE: B

Prepared By: Michelle Rudnick
CRC #: SL35920
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Changes since last revision: Section 15 revised

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.

CAS:	Chemical Abstract Service	NA:	Not Applicable
ppm:	Parts per Million	ND:	Not Determined
TCC:	Tag Closed Cup	NE:	Not Established
PMCC:	Pensky-Martens Closed Cup	g/L:	grams per Liter
PPE:	Personal Protection Equipment	lbs./gal:	pounds per gallon
TWA:	Time Weighted Average	STEL:	Short Term Exposure Limit
OSHA:	Occupational Safety and Health Administration		
ACGIH:	American Conference of Governmental Industrial Hygienists		
NIOSH:	National Institute of Occupational Safety & Health		