

# NICKEL PLATE™ HIGH TEMPERATURE ANTI-SEIZE COMPOUND SAFETY DATA SHEET

## SECTION 1: IDENTIFICATION

**Manufacturer:** Anti-Seize Technology  
2345 N. 17th Ave.  
Franklin Park, IL 60131  
Phone: 847-455-2300  
Toll Free: 800 991-1106  
Web: antiseize.com

**Information Phone Number:**

**Emergency Phone Number:** Infotrac 24/7 Phone: 1-800-535-5053 (US & Canada)  
or 352-323-3500 (International)

**Product Use:** High Temperature Anti-Seize Compound

**Restriction on Use:** None known

**SDS Date of Preparation:** December 2017

## SECTION 2: HAZARDS IDENTIFICATION

**GHS Classification (Hazcom 2012):**

Skin Sensitizer Category 1

Carcinogen Category 2

Specific Target Organ Toxicity – Single Exposure Category 1 (Inhalation)

**Label Elements:**

**Signal Word:** Danger



**Hazard Phrases:**

H317 May cause an allergic skin reaction

H370 Causes damage to respiratory tract through inhalation

H351 Suspected of causing cancer through inhalation

**Precautionary Phrases:**

**Prevention**

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P260 Do not breathe mist or vapor.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves.

**Response**

P302+P352 IF ON SKIN: Wash with plenty of water.

P333+P313 If skin irritation or rash occurs: Get medical attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

P308+P311 IF exposed or concerned: Call a POISON CENTER or doctor.

**Storage**

P405 Store locked up.

**Disposal**

P501 Dispose of contents in accordance with local, regional and national regulations.

**Other Hazards:** None

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS#	%
Synthetic Base Oil	NJTSRN#1210-01	40-60
Nickel Powder	7440-02-0	20-30
Graphite	7782-42-5	15-25
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	5-15
Rust inhibitor	Mixture	1-5
Aluminum Powder	7429-90-5	1-5

**The specific identity and/or exact percentage of composition has been withheld as a trade secret.**

**SECTION 4: FIRST AID MEASURES**

**Eye:** Flush eyes with water, holding the eyelids apart. Get medical attention if irritation develops or persists.

**Skin:** Wash thoroughly with plenty of water. Get medical attention if irritation persists.

**Inhalation:** Remove to fresh air and keep comfortable for breathing. If irritation occurs, get medical attention.

**Ingestion:** If large amounts ingested, seek medical attention.

**Most Important symptoms and effects, both acute and delayed:** Skin contact may cause an allergic reaction. Inhalation of vapors or mist may cause respiratory irritation. Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.

**Indication of any immediate medical attention and special treatment needed:** Immediate medical attention generally not required.

**SECTION 5: FIRE-FIGHTING MEASURES**

**Suitable and Unsuitable Extinguishing Media:** Use foam, carbon dioxide or dry chemical.

**Special Hazards Arising from the Chemical:** This compound will not burn unless it is pre-heated. Water fog may be used to cool the containers but do not spray directly into large containers of burning liquids as frothing may occur. Dense smoke and noxious or toxic fumes may be generated in a fire. The thermal decomposition products are highly dependent on the combustion conditions and may yield oxides of nickel, aluminum and carbon. Noxious or toxic fumes may be generated, some of which may be toxic or irritating.

**Special Equipment and Precautions for Fire-Fighters:** Wear NIOSH approved positive pressure, self-contained breathing apparatus and full protective clothing. Cool fire exposed containers with water.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**Personal Precautions, Protective Equipment and Emergency Procedures:** Wear appropriate personal protective equipment. Use caution: slip hazard.

**Environmental Hazards:** Report spills and releases as required to appropriate authorities.

**Methods and Material for Containment and Cleaning Up:** Because of its viscous nature, this product is not expected to leak or spill. Collect liquid spill with an inert absorbent material and place into a suitable container for disposal. Clean area thoroughly with mineral spirits.

## SECTION 7: HANDLING AND STORAGE

**Precautions for Safe Handling:** Avoid contact with eyes. Avoid prolonged skin contact. Do not inhale. Do not transfer to unlabeled containers.

**Conditions for Safe Storage, Including any Incompatibilities:** Store away from extreme heat and open flames. Store away from oxidizers.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical Name	Exposure Limits
Synthetic Base Oil	5 mg/m <sup>3</sup> TWA ACGIH TLV (inhalable) 5 mg/m <sup>3</sup> TWA OSHA PEL
Nickel Powder	1.5 mg/m <sup>3</sup> TWA ACGIH TLV (inhalable) 1 mg/m <sup>3</sup> TWA OSHA PEL
Graphite	2 mg/m <sup>3</sup> TWA ACGIH TLV (respirable) 15 mg/m <sup>3</sup> TWA OSHA PEL (total dust) 5 mg/m <sup>3</sup> TWA OSHA PEL (respirable fraction)
Distillates (petroleum), hydrotreated heavy naphthenic	5 mg/m <sup>3</sup> TWA ACGIH TLV (inhalable) 5 mg/m <sup>3</sup> TWA OSHA PEL
Rust inhibitor	None Established
Aluminum Powder	1 mg/m <sup>3</sup> TWA ACGIH TLV (respirable) 15 mg/m <sup>3</sup> TWA OSHA PEL (total dust) 5 mg/m <sup>3</sup> TWA OSHA PEL (respirable fraction)

**Appropriate Engineering Controls:** Use with adequate general or local exhaust ventilation to maintain exposure levels below the exposure limits. If the product is used at high temperatures, local exhaust ventilation may be required.

### Individual Protection Measures:

**Respiratory Protection:** In operations where the occupational exposure limits are exceeded, a NIOSH approved respirator with organic vapor/particulate cartridges or supplied air respirator appropriate for the form and concentration of the contaminants should be used. Selection and use of respiratory equipment must be in accordance with OSHA 1910.134 and good industrial hygiene practice.

**Skin Protection:** Impervious gloves such as rubber or nitrile recommended where needed to avoid prolonged skin contact.

**Eye Protection:** Safety glasses or goggles recommended where needed to avoid eye contact.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Metallic gray colored paste

**Vapor Density (air = 1):** Not available

<b>Odor:</b> No odor	<b>Specific Gravity:</b> 1.15
<b>Odor Threshold:</b> Not established	<b>Water Solubility:</b> Not soluble
<b>pH:</b> Not available	<b>Octanol/Water Partition Coefficient:</b> Not available
<b>Melting Point/Freezing Point:</b> Not available	<b>Autoignition Temperature:</b> Not available
<b>Boiling Point:</b> Not available	<b>Decomposition Temperature:</b> Not available
<b>Flash Point:</b> >350°F	<b>Viscosity:</b> Not available
<b>Evaporation Rate:</b> Not available	<b>Explosion Properties:</b> None
<b>Flammable Limits:</b> <b>LEL:</b> Not established <b>UEL:</b> Not established	<b>Oxidizing Properties:</b> Not oxidizing
<b>Vapor Pressure:</b> Not established	<b>Aerosol Fire Protection Level:</b> Not applicable
<b>VOC Content:</b> <0.5%	<b>Flammability (solid, gas):</b> Not available

## SECTION 10: STABILITY AND REACTIVITY

**Reactivity:** Not reactive under normal conditions of use.

**Chemical Stability:** Stable under normal storage and handling conditions.

**Possibility of Hazardous Reactions:** None known

**Conditions to Avoid:** Use with strong oxidizing chemicals such as concentrated acids.

**Incompatible Materials:** Avoid strong oxidizing agents.

**Hazardous Decomposition Products:** The thermal decomposition products are highly dependent on the combustion conditions and may yield oxides of nickel, aluminum and carbon. Noxious or toxic fumes may be generated, some of which may be toxic or irritating.

## SECTION 11: TOXICOLOGICAL INFORMATION

### Potential Health Effects:

**Eye:** May cause mild irritation.

**Skin:** Prolonged contact may cause irritation and drying of the skin. May cause an allergic reaction.

**Inhalation:** No adverse effects expected at ambient temperatures. Inhalation of vapors and fumes from thermal decomposition may cause respiratory irritation and metal fume fever with symptoms of fever and chills.

**Ingestion:** Swallowing may cause gastrointestinal irritation, nausea, vomiting, diarrhea.

**Chronic Hazards:** Prolonged inhalation of nickel dust or fumes may cause perforation of the nasal septum and lung damage. Prolonged skin contact may cause an allergic reaction.

**Carcinogen Status:** Metallic nickel is classified by IARC as possibly carcinogenic to humans (Group 2B) and by NTP as reasonably anticipated to be a carcinogen. None of the components of this product are listed as carcinogens by OSHA, IARC, NTP, ACGIH or the EU CLP.

### Acute Toxicity Values:

Nickel Powder: Oral rat LD50 > 9000 mg/kg

Graphite: Oral rat LD50 > 2000 mg/kg, inhalation rat LC50 > 2 mg/L

Distillates (petroleum), hydrotreated heavy naphthenic: Oral rat LD50 > 5000 mg/kg, inhalation rat LC50: 2.18 mg/L, dermal rabbit LD50 > 2000 mg/kg

Aluminum Powder: Oral rat LD50 > 15900 mg/kg, inhalation rat LC50 > 0.888 mg/L

## SECTION 12: ECOLOGICAL INFORMATION

**Ecotoxicity:**

Nickel Powder: Oncorhynchus mykiss LC50: 15.3 mg/L/96hr, Pimephales promelas NOEC: 0.057 mg/L/32days

Graphite: Danio rerio LC50 > 100 mg/L/96hr

Distillates (petroleum), hydrotreated heavy naphthenic: Pimephales promelas LL50 > 100 mg/L/96hr.

Aluminum Powder: Lepomis cyanellus NOEC > 50 mg/L/96hr

**Persistence and Degradability:** No data available

**Bioaccumulative Potential:** No data available

**Mobility in Soil:** No data available

**Other Adverse Effects:** None known

<b>SECTION 13: DISPOSAL CONSIDERATIONS</b>
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Dispose in accordance with all local, regional and national regulations. .

<b>SECTION 14: TRANSPORT INFORMATION</b>
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**DOT**

**Proper Shipping Name:** Not regulated

**DOT Technical Name:** None

**DOT Hazard Class:** None

**UN Number:** None

**DOT Labels Required (49CFR172.101):** None

**IMDG**

**Shipping Description:** Not regulated

**ID Number:** None

**Hazard Class:** None

**Packing Group:** None

**Labels Required:** None

**Marking Required:** None

**Placards Required:** None

**ICAO/IATA**

**Shipping Description:** Not regulated

**ID Number:** None

**Hazard Class:** None

**Packing Group:** None

<b>SECTION 15: REGULATORY INFORMATION</b>
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**Safety, health, and environmental regulations specific for the product in question.**

**CERCLA Hazardous Substances (Section 103)/RQ:** This product has a Reportable Quantity (RQ) of 500 lbs. based on the RQ for Nickel of 100 lbs. Releases above the RQ must be reported to the National Response Center. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

**SARA Hazard Category (311/312):** Acute Health, Chronic Health

**SARA 313:** This product contains the following chemicals regulated under SARA Title III, section 313: Aluminum Powder 1-5%, Nickel Powder 20-30%

**EPA TSCA Inventory:** All of the components of this product are listed on the TSCA inventory.

**CALIFORNIA PROPOSITION 65:** This product contains the following substances known to the state of California to cause cancer and/or reproductive toxicity: Nickel

<b>Components</b>	<b>C.A.S. #</b>	<b>WT %</b>
Nickel	7440-02-0	20-30%

**SECTION 16: OTHER INFORMATION**

**Revision Summary:** New format to comply with OSHA Hazcom 2012

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