

Safety Data Sheet

SDS ID: Stock Code NI

Revision date: April 27, 2017

Section 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: Talon Nickel Anti-Seize Lubricant and Thread Sealant

Synonyms: None

Chemical family: N/A

Producer: J.C. Whitlam Manufacturing Company
200 West Walnut Street
P.O. Box 380
Wadsworth, Ohio 44282-0380
www.jcwhitlam.com

Telephone: 330-334-2524 Available during normal business hours

Emergency: 330-334-2524 Available during normal business hours

Section 2. HAZARD IDENTIFICATION

GHS Classification (Hazcom 2012):

Skin Sensitizer Category 1

Carcinogen Category 2

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

Label Elements:

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:

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.

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.

P405 Store locked up.

P308+P313 IF exposed or concerned: Get medical attention.

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

Section 3. COMPOSITION / INFORMATION ON INGREDIENTS

Material information:

Name	CAS No.	Weight %
Nickel Powder	7440-02-0	20-30
Graphite	7782-42-5	15-25
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	40-60
Rust inhibitor	Mixture	1-5
Aluminum Powder	7429-90-5	1-5

***Note:** The above weight percentages are represented in ranges as estimates. Due to variation among production batches, component percentages may vary.

Section 4. FIRST AID MEASURES

Inhalation: Not likely under normal conditions of use. If using in high temperature applications where thermal decomposition is likely, use a local exhaust to remove fumes. If dizziness or irritation occurs, seek fresh air.

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

Ingestion: If large amounts ingested, seek medical attention.

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

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.

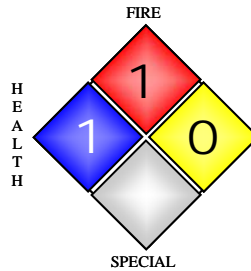
Section 5. FIREFIGHTING MEASURES

Suitable extinguishing media: Use foam, carbon dioxide or dry chemical.

Specific hazards: 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 protective equipment and precautions for firefighters: Wear NIOSH approved positive pressure, self-contained breathing apparatus and full protective clothing. Cool fire exposed containers with water.

NFPA rating: HMIS rating:		
Health:	1	1
Flammability:	1	1
Instability/reactivity:	0	0
Other:	N/A	A (PPE)



Slightly Hazardous
FP - above 200° F
Stable
N/A

Section 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Wear appropriate personal protective equipment. Use caution: slip hazard.
Large Spill:	Report spills and releases as required to appropriate authorities..
Methods for Containment and Clean 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

Handling:	Avoid contact with eyes. Avoid prolonged skin contact. Do not inhale. Do not transfer to unlabeled containers.
Storage:	Store away from extreme heat and open flames. Store away from oxidizers.

Section 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits:

Name	CAS No.	Exposure Limits:
Nickel Powder	7440-02-0	1.5 mg/m ³ TWA ACGIH TLV (inhalable) 1 mg/m ³ TWA OSHA PEL
Graphite	7782-42-5	2 mg/m ³ TWA ACGIH TLV (respirable) 15 mg/m ³ TWA OSHA PEL (total dust) 5 mg/m ³ TWA OSHA PEL (respirable fraction)
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	5 mg/m ³ TWA ACGIH TLV (inhalable) 5 mg/m ³ TWA OSHA PEL
Rust inhibitor	Mixture	None Established
Aluminum Powder	7429-90-5	1 mg/m ³ TWA ACGIH TLV (respirable) 15 mg/m ³ TWA OSHA PEL (total dust) 5 mg/m ³ TWA OSHA PEL (respirable fraction)

All exposure limits listed are 8-hour time weighted average (TWA) — except where noted otherwise.

Time Weighted Average (TWA) is an average exposure over the course of an 8-hour work shift.

A Short Term Exposure Limit TWA over the course of 15 minutes.

PEL — Permissible Exposure Limit is the maximum 8-hour TWA concentration of a chemical that a worker may be exposed to under Occupational Safety and Health Administration (OSHA) regulations.

Engineering measures: 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.

PERSONAL PROTECTIVE EQUIPMENT

- 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 and body 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.
- Hygiene measures:** When using, do not eat, drink or smoke. Avoid contact with skin, eyes and clothing. Wash hands immediately after handling the product with soap and water, using a nail brush.

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Metallic gray colored paste
Physical state (solid/liquid/gas):	Solid
Substance type (pure/mixture):	Mixture
Color:	Metallic gray
Odor:	Mild petroleum odor
Molecular weight:	Not available
pH:	Not available
Boiling point/range (5-95%):	Not available
Melting point/range:	Not available
Decomposition temperature:	Not available
Specific gravity:	1.2
Vapor density:	Not available
Vapor pressure:	Not established
Evaporation rate (Butyl acetate= 1):	Not available
Flash point, method used:	> 350°F (177°C)
Water solubility:	Not soluble
VOC Content:	<0.5%
Auto-ignition temperature:	Not available
Flammable limits in air — lower (%):	Not available
Flammable limits in air — upper (%):	Not available

Section 10. STABILITY AND REACTIVITY

Reactivity:	Not reactive under normal conditions of use.
Stability:	Stable under normal storage and handling conditions.
Possibly 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.

Polymerization: Will not occur

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

Product information:

Name	CAS No.	Inhalation:	Dermal:	Oral: LD ₅₀
Nickel Powder	7440-02-0			Oral rat LD ₅₀ > 9000 mg/kg
Graphite	7782-42-5	Inhalation rat LC ₅₀ > 2 mg/L		Oral rat LD ₅₀ > 2000 mg/kg
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	Inhalation rat LC ₅₀ : 2.18 mg/L	Dermal rabbit LD ₅₀ > 2000 mg/kg	Oral rat LD ₅₀ > 5000 mg/kg
Aluminum Powder	7429-90-5	Inhalation rat LC ₅₀ > 0.888 mg/L		Oral rat LD ₅₀ > 15900 mg/kg

LD₅₀ — The concentration of the chemical in air that kills 50% of the test animals in a given time (usually four hours).

Section 12. ECOLOGICAL INFORMATION

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

Section 13. DISPOSAL CONSIDERATIONS

Cleanup considerations: Dispose in accordance with all local, regional and national regulations.

Section 14. TRANSPORT INFORMATION

Transportation by Land (49CFR): Unrestricted

Transportation by Air (ICAO/IATA): Unrestricted

Transportation by Ship (IMO/IMDG): Unrestricted

Section 15. REGULATORY INFORMATION

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:

Name	CAS No.	Weight %
Nickel Powder	7440-02-0	20-30

Section 16. OTHER INFORMATION

Standards and Certification Listings:

The information and recommendations contained herein are based upon tests, data, and information resources believed to be reliable. However, the J.C. Whitlam Manufacturing Company, Inc., and its related operations or divisions (Whitlam) do not guarantee the accuracy or completeness, nor shall any of this information constitute a warranty, whether expressed or implied, as to the safety of goods, the merchantability of the goods or the fitness of the goods for a particular purpose. Adjustment to conform to actual conditions of usage may be required. Whitlam assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of this data. No warranty against infringement of any patent, copyright or trademark is made or implied.