

Material Safety Data Sheet

Section 1 Chemical Product and Company Identification

Manufacturer

Federal Process Corporation
4520 Richmond Road
Cleveland OH 44128
1-800-846-7325

Health - 2
Flammability - 1

Reactivity - 1

Emergency Telephone Number

Call Chemtrec 1-800-424-9300

Product Identifier: Nickel Thred Gard
Product Description: Complex Mixture
Product Use: Anti Seize Compound

Section 2 Hazards Identification

EMERGENCY OVERVIEW:

PHYSICAL HAZARDS:

May become slippery if spilled on floor.

ACUTE HEALTH EFFECTS:

May cause severe eye irritation but no lasting damage. Transient irritation may result from extended skin contact. If ingested may cause gastrointestinal discomfort. Nickel powder and nickel oxide have caused tumors at the site of injection in rodents. However studies of nickel containing prostheses do not suggest a significant risk to humans.

CHRONIC HEALTH EFFECTS:

Prolonged and repeated skin contact with metallic nickel can cause nickel sensitivity resulting in allergic skin rashes.

Section 3 Composition/Information on Ingredients

Additional information is provided in the Regulatory section of this document for Sara 313, California Proposition 65, and various state right-to-know laws.

Chemical Name	CAS #	OSHA PEL	ACGIH TLV	SARA III	PROP 65	%
Nickel as dust or fume	7740-02-0	1mg/m3 as dust	1 mg/m3 as dust	YES	NO	18-30
Petroleum oil as mist	Mixture	5 mg/m3 as mist	5 mg/m3 as mist	NO	NO	50-70
Aluminum as dust	7429-90-5	5 mg/m3 as dust	5 mg/m3 as dust	YES	NO	1-6
Graphite purified	7440-44-0	15 mg/m3	15 mg/m3	NO	NO	10-30

N/A = Not Available or Not Established

Section 4 First Aid Measures

INHALATION: Not expected to become a significant inhalation hazard under normal conditions of use.

INGESTION: If ingested this product is not expected to cause an acute reaction. This product contains a petroleum oil. Do not induce vomiting, because the oil may be aspirated into the lungs. Use a gastric lavage and call a poison center or a physician.

EYES: Flush eyes immediately with large quantities of water, lifting the lower and upper lids occasionally. If irritation persists consult a physician.

SKIN: Flush the contaminated skin and wash with soap and water. If irritation develops or persists seek medical advice. Contaminated clothing should be washed prior to re-use.

Section 5 Fire Fighting Measures

EXTINGUISHING MEDIA: Foam (Aqueous Film Forming Foam) , dry chemical, carbon dioxide.

SPECIAL PRECAUTIONS: This compound will not burn unless it is pre-heated. Water fog may be used to cool the containers, however, frothing may occur if water is sprayed directly into burning containers. Do not enter fire area without proper protection.

HAZARDOUS COMBUSTION PRODUCTS: may include dense smoke, carbon dioxide and under conditions of restricted air supply carbon monoxide.

FLASH POINT: >450 F

LOWER FLAMMABLE LIMIT: Not established

UPPER FLAMMABLE LIMIT: Not established

AUTOIGNITION TEMPERATURE: Not established

Section 6 Accidental Release Measures

Isolate the spill area, and keep unnecessary people away. Absorb spilled material with a suitable inert absorbent material. Collect and dispose of the contaminated absorbent in accordance with local state and federal laws.

Section 7 Handling and Storage

HANDLING: Avoid contact with the skin and eyes. Use good industrial hygiene practices. Provide adequate ventilation. Keep containers closed. No smoking or open flame in storage areas. Wash hands after using product and before eating, drinking, smoking or using toilet facilities.

STORAGE: Store in a dry place away from moisture, excessive heat and sources of ignition. Avoid storage near food to prevent food contamination.

Section 8 Exposure Controls/Personal Protection

VENTILATION REQUIREMENTS: In confined areas local and general ventilation should be provided to maintain airborne concentrations below permissible exposure limits. Ventilation systems must be designed according to approved engineering standards.

PERSONAL PROTECTION:

EYE: The wearing of protective glasses is recommended when handling any chemicals.

GLOVES: If prolonged or repeated skin contact is expected wear gloves as appropriate to prevent skin contact. Butyl and nitrile rubbers are recommended.

RESPIRATORY: Provide adequate ventilation in the workplace.

OTHER: Eating and smoking should be prohibited in areas where product is handled. Nothing replaces good personal hygiene. Coveralls or other full body clothing shall be worn and properly laundered after use. Workers should wash hands, face, neck, and arms before eating, drinking, or smoking.

Section 9 Physical and Chemical Properties

PHYSICAL STATE:	Grey colored paste
ODOR AND APPEARANCE:	Mild grease odor
LOWEST BOILING POINT:	Does not apply
VAPOR PRESSURE:	Not established
VAPOR DENSITY:	Not established
WATER SOLUBILITY:	Insoluble
% ORGANIC VOLATILES:	0.0% w/w
pH	Not applicable

Section 10 Stability and Reactivity

STABILITY: This product is stable under recommended conditions of storage and handling.

REACTIVITY: Product may react with strong oxidizers , strong acids, perchlorates, nitrates and phosphorous.

Section 11 Toxicological Information

Exposure limits: The limits reported in Section 2 of this document refer to other physical forms of the ingredients present in this product. Limits for the formulated product have not been determined

Nickel has been reported as carcinogenic by NTP, OSHA and IARC.

Section 12 Ecological Information

General: Do not allow this compound to enter water ways or sewers.

Section 13 Disposal Information

Waste materials must be disposed of in accordance with your municipal, state, provincial and federal regulations. Contact the proper authorities for specific instructions.

Section 14 Transportation Information

DOT HAZARD CLASS:	Not Regulated
PROPER SHIPPING NAME:	Not Regulated
IDENTIFICATION NUMBER:	Not Listed

Section 15 Regulatory Information

Listed below are chemical substances subject to supplier notification requirements. The percentages, when present represent average values.

CAS Number	SARA	WHMIS	CA-65
	313		
Nickel	21	21	21
Aluminum	2	2	2

CA-65 - Chemical substances identified under the California Proposition 65 column are known to the State of California to cause cancer and/or reproductive toxicity.

TSCA STATUS: All ingredients of this product comply with the requirements of the US EPA Toxic Substances Control Act.

Section 16 Other

Prepared by Richard Langlotz for Federal Process Corp.

The above information and recommendations are believed accurate and reliable. Because it is not possible to anticipate all conditions of use, additional safety precautions may be required. The Federal Process Corporation makes no warranty, either express or implied, including merchantability and fitness.

USER RESPONSIBILITY: Each user should read and understand this information and incorporate it into individual site safety programs in accordance with applicable hazard communication standards and regulations.