



SAFETY DATA SHEET

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SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Nickel, pellets**

PRODUCT NUMBER: 2667-7

CAS NUMBER: 7440-02-0

MANUFACTURER:

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SECTION 2 HAZARDS IDENTIFICATION

CLASSIFICATION OF SUBSTANCE OR MIXTURE

Pictogram



Signal Word

Danger

Hazard Statements

H317	May cause an allergic skin reaction.
H351	Suspected of causing cancer.
H372	Causes damage to organs through prolonged or repeated exposure.

Precautionary Phrases

P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P314	Get medical advice/attention if you feel unwell.
P363	Wash contaminated clothing before reuse.

HMIS CLASSIFICATION:

Health: 1 Fire: 0 Reactivity Hazard: 0

NFPA RATING:

Health: 1 Flammability: 0 Reactivity Hazard: 0

EYE CONTACT: May cause slight to mild irritation of the eyes.

SKIN CONTACT: May cause slight to mild irritation of the skin and dermatitis in sensitive individuals.

INHALATION: May be irritating to the nose, mucous membranes, and respiratory tract.

INGESTION: Repeated ingestion of dust has produced fibrosis of the lungs and thorax in animal studies. May cause vomiting and diarrhea.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: Ni

Molecular Weight: 58.71

CHEMICAL NAME	CAS#	%
Nickel	7440-02-0	100

SECTION 4 FIRST AID MEASURES

EYE EXPOSURE: Immediately flush the eyes with copious amounts of water for at least 15 minutes. Assure flushing under eyelids. A victim may need assistance in keeping their eyelids open. Get immediate competent medical attention.

SKIN EXPOSURE: Wash affected area with water. Remove contaminated clothes if necessary. Seek medical assistance if irritation persists.

INHALATION: Remove to fresh air and keep at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.

INGESTION: Seek medical assistance immediately. Keep the victim calm. Give the victim water (only if conscious). Induce vomiting only if directed by medical personnel.

SECTION 5 FIREFIGHTING MEASURES

FLASH POINT: Not applicable

AUTO IGNITION TEMPERATURE: Not available

EXPLOSION LIMITS: Not available

EXTINGUISHING MEDIUM: Use fire fighting measures that suit the surrounding fire.

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.

HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS: Nickel oxides

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Wear all appropriate equipment when using this material. Ensure adequate ventilation. Avoid the formation of dust. Avoid breathing vapors, mist, gas, or dust.

ENVIRONMENTAL PRECAUTIONS: Prevent spillage from entering drains or allowing to be released into the environment.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: Sweep up and place in suitable container for proper disposal.

SECTION 7 HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Wear appropriate personal protective equipment. Avoid contact with skin and eyes. Use with adequate ventilation. Avoid formation of dusts and aerosols.

CONDITIONS FOR SAFE STORAGE: Store in cool, dry, and well-ventilated area.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

EXPOSURE CONTROLS:

Component	Exposure Limits	Basis	Entity
Nickel	1.5 mg/m ³	TLV	ACGIH
	1 mg/m ³	PEL	OSHA
	0.015 mg/m ³	REL	NIOSH

TLV: Threshold Limit Value over 8 hours of work.

REL: Recommended Exposure Limit

PEL: Permissible Exposure Limit

EYE PROTECTION: Wear chemical safety glasses or goggles and face shield.

SKIN PROTECTION: Wear nitrile or rubber gloves, and a complete suit protecting against chemicals.

VENTILATION: Provide local exhaust, preferably mechanical.

RESPIRATOR: Use an approved respirator.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

COLOR AND FORM: Silver-White solid

ODOR: None

MOLECULAR WEIGHT: 58.69

BOILING POINT: 2732°C

MELTING POINT: 1453°C

SPECIFIC GRAVITY: 8.908 gm/ml

SOLUBILITY: Insoluble

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: Mixtures of fire dust with air in contact with an ignition source

INCOMPATIBILITY: Strong acids, oxidizing materials, aluminum, methanol, selenium, ammonium, nitrate, sulfur, halogens, hydrazine, and phosphorus.

DECOMPOSITION PRODUCTS: Nickel oxides

SECTION 11 TOXICOLOGICAL DATA

ACUTE TOXICITY: LC₅₀ Oral – rat – 5 gm/kg. LD₅₀ Intraperitoneal – rat – 250mg/kg. LD₅₀ Intratracheal – rat – 12mg/kg. LD₅₀ Intravenous – mouse – 50mg/kg. LD₅₀ Subcutaneous – cat – 12500µg/kg. LLo Intraperitoneal – rabbit – 7mg/kg. TC_{Lo} Inhalation – rat a – 100µg/kg/m³/24H/17W-I. TD_{Lo} Oral – mouse – 500mg/kg/5D-I. TD_{Lo} Subcutaneous – rat a- 2000mg/kg/6W-I. TD_{Lo} Intraperitoneal – rat – 100mg/kg/21W-I. Hamster kidney; Morphological transformation: 400mg/L.

CARCINOGENIC EFFECTS: Possible Carcinogen. Tumorigen

MUTAGENIC EFFECTS: Possible mutagen

TETRAOGENIC EFFECTS: Possible reproductive effector

CHRONIC TOXICITY: Not available

RTECS: No data

To the best of our knowledge the toxicological effects of this compound have not been fully investigated.

SECTION 12 ECOLOGICAL DATA

AQUATIC VERTEBRATE: LC₅₀ - 0.06mg/L - (Oncorhynchus mykiss) – 96H

AQUATIC INVERTEBRATE: EC₅₀ – 1mg/L – (Daphnia magna) – 48H

TERRESTRIAL: Not available

Do not allow undiluted product or large quantities to reach ground water, watercourse, or sewage system. Avoid transfer to the environment

SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of in according to local, state, and federal regulations.

SECTION 14 TRANSPORTATION DATA

Not a dangerous good.

SECTION 15 REGULATORY INFORMATION

TSCA: Listed in the TSCA inventory

SARA 302/304: Not Listed

SARA 311/312: Chronic Health Hazard

SECTION 15 REGULATORY INFORMATION (Cont.)

SARA (TITLE 313): Nickel

CALIFORNIA PROP. 65: Nickel

MASSACHUSETTS RIGHT TO KNOW COMPONENTS: No components are subject to the Massachusetts Right to Know Act.

NEW JERSEY RIGHT TO KNOW COMPONENTS: No components are subject to the New Jersey Right to Know Act.

PENNSYLVANIA RIGHT TO KNOW COMPONENTS: No components are subject to the Pennsylvania Right to Know Act.

SECTION 16 OTHER INFORMATION

DISCLAIMER: The information herein is believed to be accurate and reliable as of the date compiled. However, Prochem, Inc. makes no representation, warranty, or guarantee of any kind with respect to the information in this document or any use of the product based on the information.

DATE PREPARED: 05/15

SDS DEPT.