



Material Safety Data Sheet
Nickel, Powder, -325 mesh

MSDS# 96306

Section 1 - Chemical Product and Company Identification

MSDS Name: Nickel, Powder, -325 mesh
Catalog Numbers: AC193610000, AC193610250, AC193611000
Synonyms: Raney alloy

Company Identification: Acros Organics BVBA
Janssen Pharmaceuticaaan 3a
2440 Geel, Belgium

Company Identification: (USA) Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410

For information in the US, call: 800-ACROS-01
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Emergency Number US: 201-796-7100
CHEMTREC Phone Number, US: 800-424-9300
CHEMTREC Phone Number, Europe: 703-527-3887

Section 2 - Composition, Information on Ingredients

CAS#: 7440-02-0
Chemical Name: Nickel
%: >98
EINECS#: 231-111-4

Hazard Symbols:

XN F



Risk Phrases:

11 40 43

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Warning! Flammable solid. May cause respiratory tract irritation. May cause eye irritation. May cause allergic skin reaction. May cause central nervous system effects. Cancer hazard. May cause cancer in humans. Target Organs: Central nervous system, respiratory system.

Potential Health Effects

Eye: May cause eye irritation. Causes redness and pain. May cause chemical conjunctivitis and corneal damage.

Skin: May cause severe irritation and possible burns. Causes "nickel itch" which is a dermatitis resulting from sensitization to nickel, which is characterized by skin eruptions, followed by discrete ulcers that may discharge and become crusted, or by eczema. May cause sensitization by skin contact.

Ingestion: Causes gastrointestinal irritation with nausea, vomiting and diarrhea. May cause tremors and convulsions. Ingestion of large amounts may cause gastroenteritis.

Inhalation: May cause respiratory tract irritation. May cause asthmatic attacks due to allergic sensitization of the respiratory tract. Inhalation of fumes may cause metal fume fever, which is characterized by flu-like symptoms with metallic

taste, fever, chills, cough, weakness, chest pain, muscle pain and increased white blood cell count. May cause anosmia (loss of smell). May be harmful if inhaled.

Chronic: Prolonged or repeated eye contact may cause conjunctivitis. Prolonged or repeated skin contact may cause sensitization dermatitis and possible destruction and/or ulceration. May cause respiratory tract cancer. May cause kidney injury. Chronic inhalation can cause pneumoconiosis. Repeated inhalation may cause perforation of the nasal septum. Symptoms of overexposure to nickel can cause sensitization, dermatitis, allergic asthma and pneumonitis.

Section 4 - First Aid Measures

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Skin: Get medical aid if irritation develops or persists. Wash clothing before reuse. Flush skin with plenty of soap and water.

Ingestion: Do not induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

Notes to Physician:

Antidote: There exists several chelation agents. The determination of their use should be made only by qualified medical personnel.

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Dust can be an explosion hazard when exposed to heat or flame. Flammable solid. May burn rapidly with flare burning effect. May re-ignite after fire is extinguished. May be pyrophoric.

Extinguishing Media: Do NOT use water, carbon dioxide, or foam. Confining and smothering is preferable to applying water. Contact professional fire-fighters immediately. Cool containers with flooding quantities of water until well after fire is out. Use DRY sand, sodium chloride powder, graphite powder, copper powder or Lith-X powder. Dousing metallic fires with water may generate hydrogen gas, an extremely dangerous explosion hazard, particularly if fire is in a confined environment.

Autoignition Temperature: Not applicable.

Flash Point: Not applicable.

Explosion Limits: Lower: Not available

Explosion Limits: Upper: Not available

NFPA Rating: health: 2; flammability: 4; instability: 1;

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Reduce airborne dust and prevent scattering by moistening with water. Sweep up, then place into a suitable container for disposal. Scoop up with a nonsparking tool, then place into a suitable container for disposal. Avoid generating dusty conditions. Remove all sources of ignition. Carefully scoop up and place into appropriate disposal container. Provide ventilation.

Section 7 - Handling and Storage

Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with skin and eyes. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep away from heat, sparks and flame. Avoid ingestion and inhalation. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames.

Storage: Keep away from heat, sparks, and flame. Keep away from sources of ignition. Store in a cool, dry, well-ventilated area away from incompatible substances. Keep containers tightly closed.

Section 8 - Exposure Controls, Personal Protection

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Nickel	1.5 mg/m ³ (inhalable fraction)	0.015 mg/m ³ TWA 10 mg/m ³ IDLH	1 mg/m ³ TWA

OSHA Vacated PELs: Nickel: 1 mg/m³ TWA

Engineering Controls:

Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits. Use adequate general or local explosion-proof ventilation to keep airborne levels to acceptable levels.

Exposure Limits

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to minimize contact with skin.

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a

Respirators: NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State: Powder

Color: brown-gray

Odor: odorless

pH: Not available

Vapor Pressure: 1 mm Hg @ 1810 C

Vapor Density: Not available

Evaporation Rate: Not available

Viscosity: Not applicable.

Boiling Point: 2730 deg C (4,946.00°F)

Freezing/Melting Point: 1455 deg C (2,651.00°F)

Decomposition Temperature: Not available

Solubility in water: Insoluble in water.

Specific Gravity/Density: 8.90

Molecular Formula: Ni

Molecular Weight: 58.69

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Ignition sources, dust generation, excess heat.

Incompatibilities with Other Materials: Strong oxidizing agents, acids, ammonia, ammonium nitrate, fluorine, halogens, hydrazine, nitrates, nitric acid, phosphorus, sulfur, sulfuric acid, nitriles (e.g. acetonitrile, methyl cyanide), interhalogens, hydrochloric acid, selenium, organic solvents.

Hazardous

Decomposition Products: Carbon monoxide, carbon dioxide, nickel oxide, toxic and highly flammable nickel carbonyl.

Hazardous

Polymerization: Has not been reported.

Section 11 - Toxicological Information

RTECS#: CAS# 7440-02-0: QR5950000 QR6126100 QR6555000 QR7120000

LD50/LC50: RTECS: Not available.

Carcinogenicity: Nickel - California: carcinogen, initial date 10/1/89 NTP: Suspect carcinogen IARC: Group 1 carcinogen (Nickel compounds).

Other: See actual entry in RTECS for complete information.

Section 12 - Ecological Information

Other: No information available.

Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - Transport Information

US DOT

Shipping Name: METAL POWDERS, FLAMMABLE, N.O.S.

Hazard Class: 4.1

UN Number: UN3089

Packing Group: II

Canada TDG

Shipping Name: Not available

Hazard Class:

UN Number:

Packing Group:

USA RQ: CAS# 7440-02-0: 100 lb final RQ (no reporting of releases of this hazardous substan

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: XN F

Risk Phrases:

R 11 Highly flammable.

R 40 Limited evidence of a carcinogenic effect.

R 43 May cause sensitization by skin contact.

Safety Phrases:

S 16 Keep away from sources of ignition - No smoking.

S 22 Do not breathe dust.

S 36 Wear suitable protective clothing.

WGK (Water Danger/Protection)

CAS# 7440-02-0: Not available

Canada

CAS# 7440-02-0 is listed on Canada's DSL List

Canadian WHMIS Classifications: B4, D2A

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

CAS# 7440-02-0 is listed on Canada's Ingredient Disclosure List

US Federal

TSCA

CAS# 7440-02-0 is listed on the TSCA Inventory.

Section 16 - Other Information

MSDS Creation Date: 3/19/1998

Revision #8 Date 7/20/2009

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.
