Material Safety Data Sheet
Nickel(II) chloride, anhydrous

Section 1 - Chemical Product and Company Identification

MSDS Name: Nickel(II) chloride, anhydrous
Catalog Numbers: 37835-0000, 37835-0050, 37835-0250, 38732-0000, 38732-0500, 38732-2500
Synonyms:

Company Identification: Acros Organics BVBA
Janssen Pharmaceuticaan 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
For information in Europe, call: +32 14 57 52 11
Emergency Number, Europe: +32 14 57 52 99
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#  Chemical Name: %  EINECS#
7718-54-9 Nickel(II) chloride 99.999% 231-743-0

Hazard Symbols: T N

Risk Phrases: 45 25 43 50/53

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Toxic if swallowed. May cause sensitization by skin contact. May cause cancer. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Potential Health Effects
Eye: May cause eye irritation.
Skin: May cause skin irritation. May be harmful if absorbed through the skin. May cause sensitization by skin contact.

Ingestion: May cause irritation of the digestive tract. Toxic if swallowed.

Inhalation: May cause respiratory tract irritation. May be harmful if inhaled.

Chronic: May cause cancer in humans.

Section 4 - First Aid Measures

Eyes: Immediately 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 immediately. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion: Get medical aid immediately. Wash mouth out with water.

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

Notes to Physician:

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. Dangerous fire hazard in the form of dust when exposed to heat or flame.

Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or chemical foam.

Section 6 - Accidental Release Measures

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

Spills/Leaks: Avoid generating dusty conditions. Do not let this chemical enter the environment.

Section 7 - Handling and Storage

Handling: Do not breathe dust, vapor, mist, or gas. Do not get in eyes, on skin, or on clothing. Use only in a chemical fume hood.

Storage: Store in a cool, dry place. Store in a tightly closed container. Store under nitrogen.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

CAS# 7718-54-9:
United Kingdom, WEL - TWA: (nickel, inorganic compounds, soluble): 0.1 mg/m³ TWA (as Ni) United Kingdom, WEL - STEL: (nickel, inorganic compounds, soluble): 0.3 mg/m³ STEL
Personal Protective Equipment

Eyes: Wear chemical splash goggles.
Skin: Wear appropriate protective gloves to prevent skin exposure.
Clothing: Wear appropriate protective clothing to prevent skin exposure.

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a 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: yellow
Odor: odorless
pH: Not available
Vapor Pressure: Not available
Viscosity: Not available
Boiling Point: Not available
Freezing/Melting Point: 1001 deg C (1,833.80°F)
Autoignition Temperature: Not available
Flash Point: Not available
Explosion Limits: Lower: Not available
Explosion Limits: Upper: Not available
Decomposition Temperature: Not available
Solubility in water: Slightly soluble
Specific Gravity/Density:
Molecular Formula: Cl2Ni
Molecular Weight: 129.6
Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures. Hygroscopic: absorbs moisture or water from the air.

Conditions to Avoid: Incompatible materials, exposure to moist air or water.

Incompatibilities with Other Materials: Strong oxidizing agents, peroxides.


Hazardous Polymerization: Will not occur.

Section 11 - Toxicological Information

RTECS#: CAS# 7718-54-9: QR6475000

LD50/LC50:

RTECS:

CAS# 7718-54-9: Oral, mouse: LD50 = 369 mg/kg;
Oral, rat: LD50 = 681 mg/kg;
Oral, rat: LD50 = 105 mg/kg;

Other: CAS 7791-20-0 (hexahydrate): Oral rat, LD50 = 105 mg/kg

Carcinogenicity:

Nickel(II) chloride - IARC: Group 1 carcinogen

Other: The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information.

Section 12 - Ecological Information

Ecotoxicity:

Daphnia: EC50: 6-9 mg/L; 48h; .
Fish: Rainbow trout: LC50: 9-22 mg/L; 96h; .
Fish: Carp: LC50: 1.3-8 mg/L; 96h; .
Fish: Goldfish: LC50: 63-100 mg/L; 96h; .

Section 13 - Disposal Considerations

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

Section 14 - Transport Information

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USA RQ: CAS# 7718-54-9: 100 lb final RQ; 45.4 kg final RQ
Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: T N

Risk Phrases:
- R 45 May cause cancer.
- R 25 Toxic if swallowed.
- R 43 May cause sensitization by skin contact.
- R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrases:
- S 53 Avoid exposure - obtain special instructions before use.
- S 24 Avoid contact with skin.
- S 29 Do not empty into drains.
- S 37 Wear suitable gloves.
- S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

WGK (Water Danger/Protection)

CAS# 7718-54-9: 2

Canada

CAS# 7718-54-9 is listed on Canada's DSL List

US Federal

TSCA

CAS# 7718-54-9 is listed on the TSCA Inventory.

Section 16 - Other Information

MSDS Creation Date: 10/20/2004
Revision #0 Date Original.

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.

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