

MATERIAL SAFETY DATA SHEET**Product Name:** Nickel(II)nitrate hexahydrate**CAS No.:** 13478-00-7**Version:** 0**1. Identification**

Product Code : 90469
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2. Hazards Identification**Hazard classification**

Oxidizing solids : Category 2
Acute toxicity, Oral : Category 4
Acute toxicity, Inhalation : Category 4
Skin irritation : Category 2
Respiratory sensitisation : Category 1
Skin sensitisation : Category 1
Germ cell mutagenicity : Category 2
Carcinogenicity, Inhalation : Category 1 A
Reproductive toxicity : Category 1 B
Specific target organ toxicity - repeated exposure : Category 1
Acute aquatic toxicity : Category 1
Chronic aquatic toxicity : Category 1

Label elements**Hazard symbol****Signal word**

: Danger

Hazard statement

: May intensify fire; oxidiser.
Harmful if swallowed or if inhaled
Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye damage.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Suspected of causing genetic defects.

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May cause cancer by inhalation.
May damage fertility or the unborn child.
Causes damage to organs through prolonged or repeated exposure.
Very toxic to aquatic life with long lasting effects.

: Obtain special instructions before use.
Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
Wear protective gloves/ protective clothing/ eye protection/ face protection.
Wear respiratory protection.
IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician. Rinse mouth.
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician.
IF exposed or concerned: Get medical advice/ attention.
Store in a well-ventilated place. Keep container tightly closed.

Supplemental Hazard Statements

: None.

3. Composition/information on ingredients

Ingredient	CAS No
Nickel(II)nitrate hexahydrate	13478-00-7

4. First Aid Measures**Description of first aid measures****General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance.

Inhalation

: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

Skin contact

: Wash off with soap and plenty of water. Consult a physician.

Eye contact

: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Swallowed

: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Most important symptoms and effects, both acute and delayed

: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11

Indication of any immediate medical attention and special

: No data available

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treatment needed Treatment

5. Fire fighting measures**Extinguishing media****Suitable extinguishing media** : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.**Special hazards arising from the substance or mixture** : Nickel/nickel oxides**Advice for firefighters** : Wear self contained breathing apparatus for fire fighting if necessary**Further information** : No data available**6. Accidental Release Measures****Personal precautions, protective equipment and emergency procedures** : Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Avoid breathing dust.**Environmental precautions** : Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.**Methods and materials for containment and cleaning up** : Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.**Reference to other sections** : For disposal see section 13.**7. Handling and Storage****Precautions for safe handling** : Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.**Conditions for safe storage, including any incompatibilities** : Store in cool place. Keep container tightly closed in a dry and well-ventilated place.**Specific end use(s)** : No data available**8. Exposure Controls Personal Protection****Control parameters****Components with workplace control parameters****Exposure controls****Appropriate engineering** : Handle in accordance with good industrial hygiene and safety

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- controls** practice. Wash hands before breaks and at the end of workday.
- Personal protective equipment**
- Eye/face protection** : Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
- Skin Protection Hand protection** : Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
- Body Protection** : Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace..
- Respiratory protection** : Respiratory protection is required.

9. Physical and Chemical Properties

- Appearance** : Green crystals or crystalline powder.
- Odor** : No data available
- pH** : No data available
- Melting point/freezing point** : 56 °C - lit.
- Initial boiling point and boiling range** : No data available
- Flash Point** : No data available
- Vapor pressure** : No data available
- Vapor density** : No data available
- Relative density** : 2.05 g/mL at 25 °C
- Solubility in water** : No data available
- Solubility (other)** : No data available
- Formula** : $N_2NiO_6 \cdot 6H_2O$
- Molecular Weight** : 290.79 g/mol

10. Stability and Reactivity

- Reactivity** : No data available
- Chemical stability** : Stable under recommended storage conditions.
- Possibility of hazardous reactions** : No data available
- Conditions to avoid** : No data available
- Incompatible materials** : Organic materials, Powdered metals, Strong reducing agents, acids
- Hazardous decomposition products** : No data available

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Acute toxicity	:	LD50 Oral - Rat - 1.620 mg/kg
Skin corrosion/irritation	:	No data available
Serious eye damage/eye irritation	:	No data available
Respiratory or skin sensitization	:	No data available
Germ cell mutagenicity	:	In vitro tests showed mutagenic effects which were not observed with in vivo test.
Carcinogenicity	:	Human carcinogen.
Reproductive toxicity	:	Presumed human reproductive toxicant.
Specific target organ toxicity - single exposure	:	No data available
Specific target organ toxicity - repeated exposure	:	Inhalation - Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard	:	No data available
Signs and Symptoms of Exposure	:	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. Ecological Information

Toxicity	:	No data available
Persistence and degradability	:	No data available.
Bioaccumulative potential	:	No data available
Mobility in soil	:	No data available.
Other adverse effects	:	Very toxic to aquatic life with long lasting effects.

13. Disposal consideration

Disposal instructions	:	Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.
Contaminated packaging	:	Dispose of as unused product.

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	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
DOT	2725	NICKEL NITRATE	5.1	III	YES
IMDG	2725	NICKEL NITRATE	5.1	III	YES
IATA	2725	NICKEL NITRATE	5.1	III	YES

15. Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance or mixture
No Data Available.

16. Other Information**Issue Date :01/08/2014****Version : 0**

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