

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Nickel Sulfate Hexahydrate - 1 M

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product Name: Nickel Sulfate Hexahydrate - 1 M
Catalog Number: CSS-227
Supplier: Jena Bioscience GmbH
Loebstedter Strasse 71
07749 Jena, Germany
Telephone: +49 - 3641 - 62 85 000
Fax: +49 - 3641 - 62 85 100
e-Mail: info@jenabioscience.com
WWW: http://www.jenabioscience.com

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture
According to Regulation (EC) No. 1272/2008 (EU-GHS/CLP)
Skin Sens 1, H317
Resp. Sens. 1, H334
Carc. 2, H351
Aquatic Chronic 2, H411
According to EC-directives 67/548/EEC or 1999/45/EC
Carc. Cat. 3, R40
R42/43
N, R51-53

Label elements

Labelling according Regulation (EC) No 1272/2008 [CLP]



Pictogram:

Signal word:

Danger

Hazard statement(s):

H317 May cause an allergic skin reaction.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H351 Suspected of causing cancer.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statement(s):

P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
Other hazards none

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Nickel Sulfate Hexahydrate - 1 M

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component:	Nickel Sulfate hexahydrate
Synonyms:	
Formula:	$\text{NiSO}_4 \cdot 6\text{H}_2\text{O}$
Molecular Weight:	262.85 g/mol
CAS-No.:	10101-97-0
EC-No.:	232-104-9
Index-No.:	028-009-00-5
Classification:	Acute Tox. 4, H302 - Skin Sens. 1, H317 - Resp. Sens. 1, H334 - Carc. 2, H351 - Aquatic Acute 1, H400 - Aquatic Chronic 1, H410 Carc. Cat. 3, R40 - Xn, R22 - R42/43 - N, R50-53
Concentration:	15 % w/v

4. FIRST AID MEASURES

If inhaled

If breathed in, move person into fresh air. If not breathing give artificial respiration.

In case of skin contact

Wash off with soap and plenty of water.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Avoid dust formation.

Environmental precautions

Do not let product enter drains.

Methods and materials for containment and cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Nickel Sulfate Hexahydrate - 1 M

7. HANDLING AND STORAGE

Handling

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

Storage

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature: store at 4 °C

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protective equipment

Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

For prolonged or repeated contact use protective gloves.

Eye protection

Safety glasses

Hygiene measures

General industrial hygiene practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form: liquid

Safety data

pH:
Melting point: no data available
Boiling point: no data available
Flash point: no data available
Ignition temperature: no data available
Lower explosion limit: no data available
Upper explosion limit: no data available
Water solubility: no data available

10. STABILITY AND REACTIVITY

Storage stability

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Nickel Sulfate Hexahydrate - 1 M

Stable under recommended storage conditions.

Materials to avoid

Strong oxidizing agents.

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NO_x), Oxides of phosphorus, Lithium oxides.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

LD50 Oral - rat - male - 361 mg/kg (OECD Test Guideline 401)

Irritation and corrosion

no data available

Sensitisation

no data available

Chronic exposure

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Signs and Symptoms of Exposure

Dermatitis

Potential Health Effects

Inhalation:	May be harmful if inhaled. May cause respiratory tract irritation.
Skin:	May be harmful if absorbed through skin. May cause skin irritation.
Eyes:	May cause eye irritation.
Ingestion:	May be harmful if swallowed.
Target Organs:	Liver, Kidney

12. ECOLOGICAL INFORMATION

Toxicity

Toxicity to fish	LC50 - 1,28 mg/l/96 h (Onchorhynchus mykiss)
Toxicity to daphnia and other aquatic invertebrates	EC50 - 1 mg/l/48 h (Daphnia magna (Water flea))
Toxicity to algae	IC50 - 0,75 mg/l/72 h (Selenastrum capricornutum)

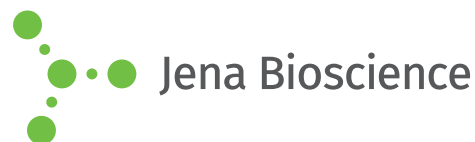
Elimination information (persistence and degradability)

no data available

Ecotoxicity effects

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Nickel Sulfate Hexahydrate - 1 M

no data available

Further information on ecology

no data available

13. DISPOSAL CONSIDERATIONS

Product

Observe all federal, state, and local environmental regulations.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

UN number/ Proper shipping name

ADR/RID: UN 3287 Giftiger anorganischer flüssiger Stoff, n.a.g. (Nickelsulfat Hexahydrat)
IMDG: UN 3287 Toxic liquid, inorganic, n.o.s. (Nickel Sulfate Hexahydrate)
IATA: UN 3287 Toxic liquid, inorganic, n.o.s. (Nickel Sulfate Hexahydrate)

Transport hazard class(es)

ADR/RID: 6.1
IMDG: 6.1
IATA: 6.1

Packaging group

ADR/RID: III
IMDG: III
IATA: III

Environmental hazards

ADR/RID: ja
IMDG: yes
IATA: no

15. REGULATORY INFORMATION

Labelling according to EC Directives

The product does not need to be labelled in accordance with EC directives or respective national laws.

16. OTHER INFORMATION

Further information

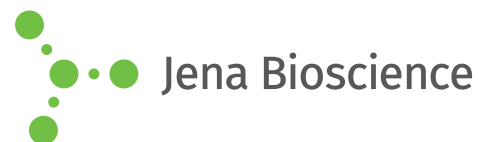
© 2017 Jena Bioscience GmbH

This material is sold for research purposes only and is not required to appear on the TSCA inventory. It is not intended for food, drug, household, agricultural or cosmetic use. Its use must be supervised by a technically qualified individual experienced in handling potentially hazardous chemicals. Users should make independent decisions regarding completeness of the information based on all sources available.



SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Nickel Sulfate Hexahydrate - 1 M

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

Jena Bioscience GmbH shall not be held liable for any damage resulting from handling or from contact with the above product. See our website for our terms and conditions of sales.

