CAS No: 10101-97-0 MSDS



# **MATERIAL SAFETY DATA SHEET (MSDS)**

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form : Substance

:

CAS No : 10101-97-0 Product code : 04890

# 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### 1.2.1. Relevant identified uses

Use of the substance/mixture : Laboratory chemicals, Manufacture of substances

#### 1.2.2. Uses advised against

No additional information available

### 1.3. Details of the supplier of the safety data sheet

Labogens Fine Chem Industries
1st Floor , Above Bank of India, Guru Vihar , Rahon Road,
Ludhiana Pb. (141007)
+91 9316777775, +91 7707855700
sales@labogens.com - www.Labogens.com

### 1.4. Emergency telephone number

Emergency number : +91 7707855700 (9:00am - 6:00 pm)

#### SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity (oral), H302
Category 4
Acute toxicity H332
(inhalation:dust,mist)

Category 4

Skin corrosion/irritation, H315 Category 2

Sensitisation — H334
Respiratory, category 1
Sensitisation — Skin, H317
category 1

Germ cell mutagenicity, Category 2

Carcinogenicity (inhalation) Category 1A

Reproductive toxicity,

Category 1A

Specific target organ toxicity — Repeated exposure, Category 1

H341

H350i

LINCOD

H360D

H372

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Hazardous to the aquatic H410 environment — Chronic Hazard, Category 1

Full text of classification categories and H statements : see section 16

### Classification according to Directive 67/548/EEC or 1999/45/EC

Carc.Cat.1; R49 Muta.Cat.3; R68 Repr.Cat.1; R61 T; R48/23 Xn; R20/22 R42 Xi; R38 R43 N; R50/53

Full text of R-phrases: see section 16

### Adverse physicochemical, human health and environmental effects

No additional information available

### 2.2. Label elements

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

Hazard pictograms (CLP)







GHS07

GHS08

GHS09

Signal word (CLP) : Danger

Hazard statements (CLP) : H302+H332 - Harmful if swallowed or if inhaled

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

H341 - Suspected of causing genetic defects H350i - May cause cancer by inhalation H360D - May damage the unborn child

H372 - Causes damage to organs through prolonged or repeated exposure

H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements (CLP) : P201 - Obtain special instructions before use

P260 - Do not breathe dust/fume/gas/mist/vapours/spray

P273 - Avoid release to the environment

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P308+P313 - IF exposed or concerned: Get medical advice/attention

 $\ensuremath{\mathsf{P501}}$  - Dispose of contents/container to ...

# 2.3. Other hazards

No additional information available

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### **SECTION 3: Composition/information on ingredients**

#### 3.1. Substance

Name : NICKEL SULPHATE HEXAHYDRATE AR/ACS

CAS No : 10101-97-0

Full text of R- and H-phrases: see section 16

#### 3.2. Mixture

Not applicable

#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

First-aid measures after inhalation : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON

CENTER or doctor/physician. Remove victim to fresh air and keep at rest in a

position comfortable for breathing.

First-aid measures after skin contact : Wash with plenty of soap and water. Wash contaminated clothing before reuse. If

skin irritation occurs: Get medical advice/attention. Specific treatment (see ... on this label). If skin irritation or rash occurs: Gently wash with plenty of soap and water.

First-aid measures after eye contact : Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously

with water for several minutes.

First-aid measures after ingestion : Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell.

#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : May cause damage to organs. Causes damage to organs through prolonged or

repeated exposure.

Symptoms/injuries after inhalation : May cause allergy or asthma symptoms or breathing difficulties if inhaled. May

cause an allergic skin reaction.

Symptoms/injuries after skin contact : Causes skin irritation.

Symptoms/injuries after ingestion : Swallowing a small quantity of this material will result in serious health hazard.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

Suitable extinguishing media : dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).

Unsuitable extinguishing media : Do not use a heavy water stream.

# 5.2. Special hazards arising from the substance or mixture

No additional information available

# 5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment.

# **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Avoid breathing dust/fume/gas/mist/vapours/spray.

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Emergency procedures : Ventilate area.

### 6.2. Environmental precautions

Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Clean up immediately by sweeping or vacuum.

### 6.4. Reference to other sections

No additional information available

### **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

Precautions for safe handling : Avoid breathing dust/fume/gas/mist/vapours/spray. Do not breathe

dust/fume/gas/mist/vapours/spray.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash ... thoroughly after

handling. Contaminated work clothing should not be allowed out of the workplace.

Wash contaminated clothing before reuse.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in original container. Keep container tightly closed. Store in a dry place.

### 7.3. Specific end use(s)

No additional information available

# **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

No additional information available

### 8.2. Exposure controls

Personal protective equipment : Wash ... thoroughly after handling.

Hand protection : protective gloves

Eye protection : Chemical goggles or safety glasses
Skin and body protection : Wear suitable protective clothing

Respiratory protection : Wear respiratory protection

Other information : Do not breathe dust/fume/gas/mist/vapours/spray. Do not eat, drink or smoke when

using this product.

# **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

Physical state : Solid

Colour : Emerald green crystalline.

Odour : odourless.

Odour threshold : No data available

pH : 4.5

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Relative evaporation rate (butylacetate=1) : No data available

Melting point : 1000 °C

Freezing point : No data available

Boiling point : No data available

Flash point : No data available

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Flammability (solid, gas) : No data available

Vapour pressure : No data available

Relative vapour density at 20 °C : No data available

Relative density : No data available

Density : 2.03 g/cm<sup>3</sup>

Solubility : Water: 75.6 g/100 cc water

Log Pow : No data available

Viscosity, kinematic : No data available

Viscosity, dynamic : No data available

Explosive properties : No data available

Oxidising properties : No data available

Explosive limits : No data available

# 9.2. Other information

No additional information available

# **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Stable under normal conditions.

# 10.3. Possibility of hazardous reactions

No additional information available

### 10.4. Conditions to avoid

Direct sunlight. Air contact. Moisture.

### 10.5. Incompatible materials

No additional information available

# 10.6. Hazardous decomposition products

No additional information available

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### **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

Acute toxicity : Oral: Harmful if swallowed. Inhalation:dust/mist: Harmful if inhaled.

Skin corrosion/irritation : Causes skin irritation.

pH: 4.5

Serious eye damage/irritation : Not classified

pH: 4.5

Respiratory or skin sensitisation : May cause allergy or asthma symptoms or breathing difficulties if inhaled. May

cause an allergic skin reaction.

Germ cell mutagenicity : Suspected of causing genetic defects.

Carcinogenicity : May cause cancer by inhalation.

Reproductive toxicity : May damage the unborn child.

Specific target organ toxicity (single

exposure)

: Not classified

Specific target organ toxicity (repeated

exposure)

: Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard : Not classified

Potential adverse human health effects

and symptoms

: Harmful if swallowed.

# **SECTION 12: Ecological information**

### 12.1. Toxicity

Ecology - water : Very toxic to aquatic life with long lasting effects.

### 12.2. Persistence and degradability

# NICKEL SULPHATE HEXAHYDRATE AR/ACS (10101-97-0)

Persistence and degradability May cause long-term adverse effects in the environment.

### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

#### 12.5. Results of PBT and vPvB assessment

No additional information available

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#### 12.6. Other adverse effects

No additional information available

### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Product/Packaging disposal recommendations

: Dispose of contents/container to ...

### **SECTION 14: Transport information**

In accordance with ADR / RID / IMDG / IATA / ADN

### 14.1. UN number

UN-No. (ADR) : 3288 UN-No. (IMDG) : 3288 UN-No.(IATA) : 3288 UN-No.(ADN) : 3288 UN-No. (RID) : 3288

### 14.2. UN proper shipping name

Proper Shipping Name (ADR)

Proper Shipping Name (IMDG)

Proper Shipping Name (IMTA)

Proper Shipping Name (IATA)

Proper Shipping Name (ADN)

Proper Shipping Name (ADN)

Proper Shipping Name (RID)

TOXIC SOLID, INORGANIC, N.O.S.

TOXIC SOLID, INORGANIC, N.O.S.

Transport document description (ADR) : UN 3288 TOXIC SOLID, INORGANIC, N.O.S., 6.1, III, (E), ENVIRONMENTALLY

**HAZARDOUS** 

Transport document description (IMDG) : UN 3288 TOXIC SOLID, INORGANIC, N.O.S., 6.1, III, MARINE

POLLUTANT/ENVIRONMENTALLY HAZARDOUS

Transport document description (IATA) : UN 3288 TOXIC SOLID, INORGANIC, N.O.S., 6.1, III, ENVIRONMENTALLY

**HAZARDOUS** 

Transport document description (ADN) : UN 3288 TOXIC SOLID, INORGANIC, N.O.S., 6.1, III, ENVIRONMENTALLY

**HAZARDOUS** 

Transport document description (RID) : UN 3288 TOXIC SOLID, INORGANIC, N.O.S., 6.1, III, ENVIRONMENTALLY

**HAZARDOUS** 

# 14.3. Transport hazard class(es)

### ADR

Transport hazard class(es) (ADR) : 6.1 Danger labels (ADR) : 6.1



#### **IMDG**

Transport hazard class(es) (IMDG) : 6.1 Danger labels (IMDG) : 6.1



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### **IATA**

Transport hazard class(es) (IATA) : 6.1 Hazard labels (IATA) : 6.1



### **ADN**

Transport hazard class(es) (ADN) : 6.1 Danger labels (ADN) : 6.1



### **RID**

Transport hazard class(es) (RID) : 6.1 Danger labels (RID) : 6.1



# 14.4. Packing group

Packing group (ADR) : III
Packing group (IMDG) : III
Packing group (IATA) : III
Packing group (ADN) : III
Packing group (RID) : III

### 14.5. Environmental hazards

Dangerous for the environment : Yes
Marine pollutant : Yes

Other information : No supplementary information available

# 14.6. Special precautions for user

# - Overland transport

Classification code (ADR) : T5
Special provision (ADR) : 274
Limited quantities (ADR) : 5kg
Excepted quantities (ADR) : E1

Packing instructions (ADR) : P002, IBC08, LP02, R001

Special packing provisions (ADR) : B3

Mixed packing provisions (ADR) : MP10

Portable tank and bulk container : T1

instructions (ADR)

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: TP33

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Portable tank and bulk container special

provisions (ADR)

Tank code (ADR) : SGAH, L4BH Tank special provisions (ADR) : TU15, TE19

Vehicle for tank carriage : AT Transport category (ADR) : 2

Special provisions for carriage - Bulk

(ADR)

: VC1, VC2, AP7

Special provisions for carriage - Loading,

unloading and handling (ADR)

: CV13, CV28

Special provisions for carriage - Operation : S9

(ADR)

Hazard identification number (Kemler No.) : 60

Orange plates

60 3288

Tunnel restriction code (ADR) : E EAC code : 2X

### - Transport by sea

Special provision (IMDG): 223, 274Limited quantities (IMDG): 5 kgExcepted quantities (IMDG): E1

Packing instructions (IMDG) : P002, LP02 IBC packing instructions (IMDG) : IBC08 IBC special provisions (IMDG) : B3 Tank instructions (IMDG) : T1 Tank special provisions (IMDG) : TP33 EmS-No. (Fire) : F-A : S-A EmS-No. (Spillage) Stowage category (IMDG) : A MFAG-No : 151

### - Air transport

PCA Excepted quantities (IATA) : E1
PCA Limited quantities (IATA) : Y645
PCA limited quantity max net quantity : 10kg

(IATA)

PCA packing instructions (IATA) : 670
PCA max net quantity (IATA) : 100kg
CAO packing instructions (IATA) : 677
CAO max net quantity (IATA) : 200kg
Special provision (IATA) : A3, A5
ERG code (IATA) : 6L

# - Inland waterway transport

Classification code (ADN) : T5

Special provisions (ADN) : 274, 802

Limited quantities (ADN) : 5 kg

Excepted quantities (ADN) : E1

Equipment required (ADN) : PP, EP

Number of blue cones/lights (ADN) : 0

# - Rail transport

Classification code (RID) : T5

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# Safety Data Sheet

Special provision (RID) : 274
Limited quantities (RID) : 5kg
Excepted quantities (RID) : E1

Packing instructions (RID) : P002, IBC08, LP02, R001

Special packing provisions (RID) : B3

Mixed packing provisions (RID) : MP10

Portable tank and bulk container : T1

instructions (RID)

Portable tank and bulk container special

provisions (RID)

: TP33

Tank codes for RID tanks (RID) : SGAH, L4BH

Special provisions for RID tanks (RID) : TU15
Transport category (RID) : 2

Special provisions for carriage – Bulk

(RID)

: VC1, VC2, AP7

Special provisions for carriage – Loading

and unloading (RID)

: CW13, CW28, CW31

Colis express (express parcels) (RID) : CE11 Hazard identification number (RID) : 60

# 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

### **SECTION 15: Regulatory information**

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

### 15.1.1. EU-Regulations

No REACH Annex XVII restrictions

NICKEL SULPHATE HEXAHYDRATE AR/ACS is not on the REACH Candidate List NICKEL SULPHATE HEXAHYDRATE AR/ACS is not on the REACH Annex XIV List

### 15.1.2. National regulations

#### Germany

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV

12th Ordinance Implementing the Federal : Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

#### Denmark

Recommendations Danish Regulation

: Young people below the age of 18 years are not allowed to use the product Pregnant/breastfeeding women working with the product must not be in direct contact with the product

The requirements from the Danish Working Environment Authorities regarding work

with carcinogens must be followed during use and disposal

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# 15.2. Chemical safety assessment

No additional information available

# **SECTION 16: Other information**

# Full text of R-, H- and EUH-phrases:

Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Carc. 1A	Carcinogenicity (inhalation) Category 1A
Muta. 2	Germ cell mutagenicity, Category 2
Repr. 1A	Reproductive toxicity, Category 1A
Resp. Sens. 1	Sensitisation — Respiratory, category 1
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Sensitisation — Skin, category 1
STOT RE 1	Specific target organ toxicity — Repeated exposure, Category 1
H302	Harmful if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H332	Harmful if inhaled
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H341	Suspected of causing genetic defects
H350i	May cause cancer by inhalation
H360D	May damage the unborn child
H372	Causes damage to organs through prolonged or repeated exposure
H410	Very toxic to aquatic life with long lasting effects
R20/22	Harmful by inhalation and if swallowed
R38	Irritating to skin
R42	May cause sensitization by inhalation
R43	May cause sensitisation by skin contact
R48/23	Toxic: danger of serious damage to health by prolonged exposure through inhalation
R49	May cause cancer by inhalation
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R61	May cause harm to the unborn child
R68	Possible risk of irreversible effects
N	Dangerous for the environment
T	Toxic
Xi	Irritant
Xn	Harmful

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

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