CAS No: 13478-00-7 MSDS



MATERIAL SAFETY DATA SHEET (MSDS)

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

Product identifier

Product form : Substance

CAS No : 13478-00-7 : 04880 Product code

Chemical structure $Ni(NO_3)_2 \cdot 6H_2O$

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

Uses advised against 1.2.2.

No additional information available

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

Emergency telephone number

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

SECTION 2: Hazards identification

Classification of the substance or mixture

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

Oxidising Solids, H272 Category 2 Acute toxicity (oral), H302 Category 4 Acute toxicity H332

(inhalation:dust,mist)

Category 4

Skin corrosion/irritation, H315

Category 2 Serious eye damage/eye

H318 irritation, Category 1 Sensitisation H334

Respiratory, category 1

Sensitisation — Skin, H317 category 1

Germ cell mutagenicity, H341

Category 2

H350i Carcinogenicity

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(inhalation) Category 1A

Reproductive toxicity, H360

Category 1A

Specific target organ H372

toxicity — Repeated exposure, Category 1

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 O; R8 T; R48/23 Xn; R20/22 R42 Xi; R41 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) :



GHS03



GHS05







GHS09

Signal word (CLP) : Danger

Hazard statements (CLP) : H272 - May intensify fire; oxidiser

H302+H332 - Harmful if swallowed or if inhaled

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction H318 - Causes serious eye damage

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

H341 - Suspected of causing genetic defects H350i - May cause cancer by inhalation H360 - May damage fertility or 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

P220 - Keep/Store away from clothing/.../combustible materials 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 P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes.

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Remove contact lenses, if present and easy to do. Continue rinsing

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Name : NICKEL NITRATE (HEXAHYDRATE) AR

CAS No : 13478-00-7

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 : Remove person to fresh air and keep comfortable for breathing. Give oxygen or artificial respiration if necessary. If you feel unwell, seek medical advice.

First-aid measures after skin contact : Gently wash with plenty of soap and water. If skin irritation occurs: Get medical

advice/attention.

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

with water for several minutes. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Rinse mouth out with water. If you feel unwell, seek medical advice.

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

Symptoms/injuries : May cause an allergic skin reaction. Suspected of causing genetic defects. May

cause damage to organs through prolonged or repeated exposure.

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

inhaled. May cause cancer by inhalation.

Symptoms/injuries after skin contact : Causes skin irritation.

Symptoms/injuries after eye contact : Causes serious eye damage.

Symptoms/injuries after ingestion : Harmful if swallowed.

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

Fire hazard : May intensify fire; oxidiser.

5.3. Advice for firefighters

No additional information available

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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 : Use personal protective equipment as required.

Emergency procedures : Ventilate area.

6.2. Environmental precautions

Very toxic to aquatic life with long lasting effects.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Clear up rapidly by scoop 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 : Do not get in eyes, on skin, or on clothing.

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

handling.

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

Hand protection : protective gloves

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

Respiratory protection : Wear respiratory protection

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid

Molecular mass : 290.8 g/mol Colour : Green crystals.

Odour : odourless.

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Odour threshold : No data available

pH : 3.5 - 5.5

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

Melting point : 56 °C

Freezing point : No data available

Boiling point : 1370 °C

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 : 2.05 g/cm³

Solubility : Water: 238.5 g/100cm³ @ 00C

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

May intensify fire; oxidiser.

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: 3.5 - 5.5

Serious eye damage/irritation : Causes serious eye damage.

pH: 3.5 - 5.5

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

Specific target organ toxicity (single

exposure)

: May damage fertility or the unborn child.

: 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.

12.2. Persistence and degradability

No additional information available

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) : 2725 UN-No. (IMDG) : 2725 UN-No.(IATA) : 2725 UN-No. (ADN) : 2725 UN-No. (RID) : 2725

14.2. UN proper shipping name

Proper Shipping Name (ADR) : NICKEL NITRATE
Proper Shipping Name (IMDG) : NICKEL NITRATE
Proper Shipping Name (IATA) : NICKEL NITRATE
Proper Shipping Name (ADN) : NICKEL NITRATE
Proper Shipping Name (RID) : NICKEL NITRATE

Transport document description (ADR) : UN 2725 NICKEL NITRATE, 5.1, III, (E), ENVIRONMENTALLY HAZARDOUS : UN 2725 NICKEL NITRATE, 5.1, III, MARINE POLLUTANT/ENVIRONMENTALLY

HAZARDOUS

Transport document description (IATA) : UN 2725 NICKEL NITRATE, 5.1, III, ENVIRONMENTALLY HAZARDOUS Transport document description (ADN) : UN 2725 NICKEL NITRATE, 5.1, III, ENVIRONMENTALLY HAZARDOUS Transport document description (RID) : UN 2725 NICKEL NITRATE, 5.1, III, ENVIRONMENTALLY HAZARDOUS

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 5.1
Danger labels (ADR) : 5.1



IMDG

Transport hazard class(es) (IMDG) : 5.1 Danger labels (IMDG) : 5.1



IATA

Transport hazard class(es) (IATA) : 5.1

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Hazard labels (IATA) : 5.1



ADN

Transport hazard class(es) (ADN) : 5.1
Danger labels (ADN) : 5.1



RID

Transport hazard class(es) (RID) : 5.1
Danger labels (RID) : 5.1



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

: TP33

14.6. Special precautions for user

- Overland transport

Classification code (ADR) : O2
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)

Portable tank and bulk container special

provisions (ADR)

Tank code (ADR) : SGAV
Tank special provisions (ADR) : TU3
Vehicle for tank carriage : AT

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Transport category (ADR) : 3

Special provisions for carriage - Bulk : VC1, VC2, AP6, AP7

(ADR)

Special provisions for carriage - Loading,

unloading and handling (ADR)

: CV24

Hazard identification number (Kemler No.) : 50

Orange plates :

50 2725

Tunnel restriction code (ADR) : E EAC code : 1Z

- Transport by sea

Limited quantities (IMDG) : 5 kg
Excepted 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 EmS-No. (Spillage) : S-Q Stowage category (IMDG) : A MFAG-No : 140

- Air transport

PCA Excepted quantities (IATA) : E1
PCA Limited quantities (IATA) : Y546
PCA limited quantity max net quantity : 10kg (IATA)

PCA packing instructions (IATA) : 559
PCA max net quantity (IATA) : 25kg
CAO packing instructions (IATA) : 563
CAO max net quantity (IATA) : 100kg
ERG code (IATA) : 5L

- Inland waterway transport

Classification code (ADN) : 02 Limited quantities (ADN) : 5 kg Excepted quantities (ADN) : E1 : B Carriage permitted (ADN) : PP Equipment required (ADN) Provisions prior to loading (ADN) : LO04 Provisions for carriage in bulk (ADN) : CO02 Number of blue cones/lights (ADN) : 0

Additional requirements/Remarks (ADN) : CO02 and LO04 apply only when this substance is carried in bulk or without

packaging

- Rail transport

Classification code (RID) : O2
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

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Portable tank and bulk container

instructions (RID)

: T1

Portable tank and bulk container special

provisions (RID)

: TP33

: CW24

Tank codes for RID tanks (RID) : SGAV Special provisions for RID tanks (RID) : TU3 Transport category (RID) : 3

Special provisions for carriage - Bulk

(RID)

: VC1, VC2, AP6, AP7

Special provisions for carriage - Loading

and unloading (RID)

Colis express (express parcels) (RID) : CE11

Hazard identification number (RID) : 50

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

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

NICKEL NITRATE (HEXAHYDRATE) AR is not on the REACH Candidate List NICKEL NITRATE (HEXAHYDRATE) AR is not on the REACH Annex XIV List

15.1.2. National regulations

Germany

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

Chemical safety assessment

No additional information available

SECTION 16: Other information

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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
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Muta. 2	Germ cell mutagenicity, Category 2
Ox. Sol. 2	Oxidising Solids, 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
H272	May intensify fire; oxidiser
H302	Harmful if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
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
H360	May damage fertility or 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
R41	Risk of serious damage to eyes
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
R8	Contact with combustible material may cause fire
N	Dangerous for the environment
0	Oxidising
T	Toxic
Xi	Irritant
Xn	Harmful
7311	Tight the state of

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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