# Scientific Laboratory Supplies - Safety Data Sheet

(in accordance with regulation (EU) 2015/830 and regulation (EC) 1272/2008)

Revision: 2.0 Revision date: 20 April 2021 Date printed: 17 August 2022 (Replaces revision 1.1 of 16 April 2021)

**CHE265** 

## **Section 1. Identification**

**Product Identifier** CHE2658

> Product Name NICKEL NITRATE 6H2O 250g.

CAS Number 13478-00-7

**REACH Registration No** 01-2119492333-38-XXXX

Ni(NO,) .6H,O =290.79 Molecular Formula

### 1.2 Relevent identified uses of the substance or mixure & uses advised against

Uses of Material Chemical for industrial and laboratory use. Not suitable for domestic use.

1.3 **Supplier** Scientific Laboratory Supplies

SCIENTIFIC LABORATORY **SUPPLIES** 

Wilford Industrial Estate

Ruddington Lane

Wilford Nottingham NG11 7EP

UNITED KINGDOM

Phone 0115 9821111 Fax 0115 9825275

Email sales@scientific-labs.com

(08:00-17:00)0115 9821111 **Emergency Telephone** 

> (24hr) 112

(Have this document to hand)

### Section 2. Hazards Identification

#### 2.1 Classification of the substance or mixture

### Classification according to regulation 1272/2008/EC

Oxidising solid, category 2 H272: May intensify fire; oxidizer. Acute toxicity, category 4 (oral) H302: Harmful if swallowed. Skin corrosion/irritation, category 2 H315: Causes skin irritation. Acute toxicity, category 4 (inhalation) H332: Harmful if inhaled. Serious eye damage/irritation, category 1 H318: Causes serious eye damage.

Respiratory sensitization, category 1 H334: May cause allergy or asthma symptoms or breathing difficulties if

inhaled.

Skin sensitization, category 1 H317: May cause an allergic skin reaction. Germ cell mutagenicity, category 2 H341: Suspected of causing genetic defects.

Carcinogenicity, category 1A H350: May cause cancer.

Reproductive toxicity, category 1B H360: May damage fertility or the unborn child.

Spec target organ tox - repeat, category 1 H372: Causes damage to organs through prolonged or repeated exposure.

Hazard to aquatic environment, category 1 H400: Very toxic to aquatic life.

Hazard to aquatic environment, category 1 H410: Very toxic to aquatic life with long lasting effects.

### 2.2 Label elements

### Labelling according to regulation 1272/2008/EC

Signal word Danger

#### Hazard Pictograms











Hazard Statements

May intensify fire; oxidizer. Harmful if inhaled or swallowed. Causes skin irritation. Causes serious eye damage. May cause cancer. May damage fertility or the unborn child. Suspected of causing genetic defects. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Very toxic to aquatic life with long lasting effects. May cause an allergic skin reaction. May be fatal if swallowed and enters airways. Causes damage to organs through prolonged or repeated exposure.

Precautionary Statements

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves / protective clothing / eye protection / face protection. Wash thoroughly after handling. Avoid breathing dust / fume / gas / mist / vapours / spray. If skin irritation or a rash occurs: Get medical advice/attention.

## **Section 3. Composition**

#### 3.1 Substances

Component	CAS No.	EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
Nickel Nitrate Hexahydrate 13478-00-		01-2119492333-38-XXXX	>98%	Ox. Sol. 2,Acute Tox. 4 (O),Skin Irrit. 2,Acute Tox. 4 (I),Eye Dam. 1,Resp. Sens. 1,Skin Sens. 1,Muta. 2,Carc. 1A,Repr. 1B,STOT RE 1,Aquatic Acute 1,Aquatic Chronic 1	

### Section 4. First Aid

### 4.1 Description of first aid measures

Eyes Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. If discomfort persists

OBTAIN MEDICAL ATTENTION.

Skin Wash off skin thoroughly with water.

Inhalation Remove from exposure. If material has reacted with an acid to form, nitrous fumes, Obtain immediate medical

attention even if patient is not complaining of discomfort.

Ingestion Wash out the patients mouth thoroughly with water. Keep warm and at rest. If there is difficulty in breathing give

oxygen if available. If breathing stops or shows signs of failing, apply artificial resuscitation. OBTAIN MEDICAL ATTENTION URGENTLY.

Personal protection for first Wear protective gloves / eye protection.

aiders

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

No further relevant information available.

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

No further relevant information available.

### **Section 5. Fire Fighting**

#### 5.1 Extinguishing media

Extinguishing Media Water spray. Unsuitable Media Nothing specified.

#### 5.2 Special hazards arising from the substance or mixture

May evolve toxic fumes if involved in a fire. Mixtures with combustible materials are flammable. Mixtures with Hazards

finely divided combustible materials can react explosively.

#### 5.3 Advice for firefighters

Advice for firefighters Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Fire-fighters should wear

protective clothing and breathing apparatus.

### Section 6. Accidental Release Measures

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

Personal Protection Evacuate area immediately. If contact with acid is possible, use full protective clothing and breathing apparatus.

Only re-enter area with full protective clothing and breathing apparatus.

#### 6.2 Environmental precautions

Environmental Keep material out of sewers, storm drains, surface waters and soil. Notify the Environmental Agency and local

Environmental Health Officer if major spillage occurs.

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

Major Spillage Cover area of spill with lime. Allow time for the hydrolysis to take place. Sweep up, place in a bag and hold for

waste disposal. Ventilate area and wash spill site after material pickup is complete.

Minor Spillage Cover area of spill with lime. Allow time for the hydrolysis to take place. Sweep up, place in a bag and hold for

waste disposal. Ventilate area and wash spill site after material pickup is complete.

#### 6.4 Reference to other sections

See section 8.2 for information on protective equipment and section 13 for information on disposal.

## Section 7. Storage & Handling

#### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Do not breath dust. Do not allow to contaminate clothing.

Ensure Local Exhaust Ventilation maintains dust concentrations to a minimum.

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

Well ventilated, cool, dry storage. Store in a suitable area for oxidising agents. Keep well separated from combustible materials.

#### 7.3 Specific end use(s)

See section 1.2.

### Section 8. Workplace Exposure & Personal Protection

### 8.1 Control parameters

Component	CAS No	Concentration	Workplace Exposure Limits					
			Long Term (8hr TWA)		Short Term 1:	Short Term 15min period)		
Nickel Nitrate Hexahydrate	13478-00-7	>98%	-	-	-	-		

Exposure data source(s) No occupational exposure data currently available.

#### 8.2 Exposure controls

Respiratory Protection Wear NIOSH/MSHA-approved respirator. Use only in a chemical fume hood.

Hand Protection Wear gloves.

Skin Protection Avoid contact with skin. If skin contact or contamination of clothing is likely, protective clothing must be worn.

Special Hazards No special precautions required.

### Section 9. Physical & Chemical Properties

# 9.1 Information on basic physical and chemical properties

Appearance Olive green crystalline powder.

Odour No specific odour. pH Not applicable Boiling Point Not available Melting Point 56°C

Flash Point Not applicable
Upper Flammable Limit Not applicable
Lower Flammable Limit Not applicable
Auto Ignition Not applicable

Explosive Properties May explode when heated.

Oxidising Properties Yes.

Vapour Pressure Not applicable Relative Density 2.0500

Water Solubility Completely soluble in water.

#### 9.2 Other information

No data available.

## Section 10. Stability & Reactivity

**10.1** Reactivity No data available.

**10.2** Chemical Stability Stable under normal conditions

**10.3** Possibility of hazardous No data available.

reactions

**10.4** Conditions to Avoid Avoid contact with acids or combustible materials.

**10.5** Incompatable Materials Acids: reacts to form poisonous nitrous fumes. Combustible materials.

10.6 Hazardous Decomposition Not flammable but will assist a fire, producing irritant and toxic fumes of oxides of nitrogen.

**Products** 

### Section 11. Toxicological Information

### 11.1 Information on toxicological effects

Eyes Contact with the solid or dust will be irritating to the eyes.

Skin Contact with the solid or dust will be irritating to the skin. Skin contact can lead to erythema & nodular erruption

on the fingers, wrists & forearms. Harmful in contact with skin.

LD50 Skin Not available

Ingestion Harmful if swallowed.

LD50 Oral 1620mg/kg Rat

Inhalation Harmful by inhalation. The dust will produce irritation of the eyes, nose, throat and respiratory tract. Inhalation of

the dust will cause asthmatic type response in sensitive individuals.

LD50 Inhalation 1.6mg/l Acute toxicity estimate

TCLo Not available

Carcinogenicity Carcinogen by inhalation.

Mutagenicity Under investigation.

Reproductive Effects No information is available.

Other Information To the best of our knowledge, the chemical, physical, & toxicological properties have not been throughly

investigated.

## Section 12. Ecological

**12.1** Toxicity Nickel salts are harmful to the environment.

LC50 Algal Not available

LC50 Crustacea 0.9mg/l Daphnia magna (48 hours)

LC50 Fish Not available

**12.2** Persistence and No data available.

degradability

12.3 Bioaccumulative potential No data available.12.4 Mobility in soil No data available.

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**12.5** Results of PBT & vPvB

assessment

Assessment not required.

**12.6** Other adverse effects

None known at present.

## **Section 13. Disposal Considerations**

#### 13.1 Waste treatment methods

Disposal Methods Dissolve in water and adjust pH to 7, then precipitate out as the sulphide. Filter off the insoluble material and

dispose of at a licensed land-fill site. Destroy excess sulphide with sodium hypochlorite, neutralise the solution

and wash to drain with copious amounts of water.

## **Section 14. Transport Information**

**14.1 UN Number** 2725

14.2 Proper Shipping Name Nickel nitrate

14.3 Transport classes

UN classification 5.1
Subsidiary hazard(s) None
Transport category 3
ADR Hazard ID 50
Tunnel Restriction Code E

Packing Group III

14.4 Packing Group III

**14.5 Environment hazards** See section 12.

**14.6 Special precautions for** No special precautions required.

user

**14.7 Transport in bulk** Not transported in bulk.



## Section 15. Regulatory Information

### 15.1 Safety, health and environment regulations specific for subtance/mixture.

#### Classification, Labeling & Packaging of Substances & Mixtures Regulations (1272/2008/CE)

Classification Oxidising solid, category 2; Acute toxicity, category 4 (oral); Skin corrosion/irritation, category 2; Acute toxicity,

category 4 (inhalation); Serious eye damage/irritation, category 1; Respiratory sensitization, category 1; Skin sensitization, category 1; Germ cell mutagenicity, category 2; Carcinogenicity, category 1A; Reproductive toxicity, category 1B; Spec target organ tox - repeat, category 1; Hazard to aquatic environment, category 1; Hazard to aquatic

environment, category 1

Signal word Danger

Hazard Pictograms











Hazard Statements H272, H302+H332, H315, H318, H350, H360, H341, H334, H410, H317, H304, H372

May intensify fire; oxidizer. Harmful if inhaled or swallowed. Causes skin irritation. Causes serious eye damage. May cause cancer. May damage fertility or the unborn child. Suspected of causing genetic defects. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Very toxic to aquatic life with long lasting effects. May cause an allergic skin reaction. May be fatal if swallowed and enters airways. Causes damage to organs the purple precised or property.

through prolonged or repeated exposure.

Hazard Statements (Packs of 500ml/g or less)

H272, H350, H360, H341, H334, H410, H302, H315, H317, H318, H332, H372

May intensify fire; oxidizer. May cause cancer. May damage fertility or the unborn child. Suspected of causing genetic defects. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Very toxic to aquatic life with long lasting effects. Harmful if swallowed. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Harmful if inhaled. Causes damage to organs through prolonged or repeated exposure.

Precautionary Statements P201, P202, P280, P264, P261, P333+P313

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves / protective clothing / eye protection / face protection. Wash thoroughly after handling. Avoid breathing dust / fume / gas / mist / vapours / spray. If skin irritation or a rash occurs: Get medical advice/attention.

Precautionary Statements (Packs of 500ml/g or less)

P201, P202

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

#### 15.2 Chemical safety assessment

Assessment not required.

### **Section 16. Other Information**

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment. See sections 11 for toxicological information and section 12 for ecological information.

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