Vickers Laboratories Ltd - Safety Data Sheet

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

Revision: 1.1 Revision date: 16 April 2021 Date printed: 12 August 2023

Section 1. Identification

1.1 Product Identifier 3380

Product Name AMMONIUM NICKEL (II) SULPHATE 6H2O

CAS Number 7785-20-8

REACH Registration No A registration number is not available as the substance or its uses are exempt, the

annual tonnage does not require a registration or the registration is envisaged for a

later date.

Molecular Formula $H_{s}N_{2}NiO_{s}S_{2}.6H_{2}O = 394.99$

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 Vickers Laboratories Ltd

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4hr) 11

(Have this document to hand)

Section 2. Hazards Identification

2.1 Classification of the substance or mixture

Classification according to regulation 1272/2008/EC

Acute toxicity, category 4 (oral) H302: Harmful if swallowed.

Acute toxicity, category 4 (inhalation) H332: Harmful if inhaled.

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 cause cancer. May damage fertility or the unborn child. Suspected of causing genetic defects. Causes

damage to organs through prolonged or repeated exposure. Harmful if inhaled or swallowed. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. Very toxic to aquatic

life with long lasting effects.

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)
Ammonium nickel sulphate hexahydrate	7785-20-8	239-793-5		100%	Acute Tox. 4 (O), Acute Tox. 4 (I), 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 Remove contaminated clothing immediately and wash before re-use. Thoroughly wash off skin with soap and

water. If discomfort persists OBTAIN MEDICAL ATTENTION.

Inhalation Remove from exposure, wearing protective clothing and breathing apparatus if necessary. 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.

Ingestion Wash out the patients mouth thoroughly with water. 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 Consider what other flammable materials are present and act accordingly.

Unsuitable Media Nothing specified.

5.2 Special hazards arising from the substance or mixture

Hazards May evolve toxic fumes if involved in a fire.

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. Avoid breathing dust-wear respiratory protective equipment. Do not allow general

use of area until it is safe to do so.

6.2 Environmental precautions

Environmental 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 Vacuum up into container for removal. Carefully remove material from vacuum cleaner and transfer to sealable

container for disposal. Carry out this operation under fume extraction. Wash area down with copious amounts of

water

Minor Spillage Wash area down with copious amounts of water.

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 below the recommended limits.

7.2 Conditions for safe storage, including any incompatibilities

Well ventilated, cool, dry storage.

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	Long Term (8hr TWA)		Short Term 15min period)			
Ammonium nickel sulphate hexahydrate	7785-20-8	100%	-	-	-	-			

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

8.2 Exposure controls

Respiratory Protection If process creates significant amounts of dust use L.E.V. or wear suitable dust mask.

Hand Protection Use nitrile gloves or PVC gauntlets.

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 Green crystals.

Odour No specific odour.
pH Not applicable
Boiling Point Not available
Melting Point 85-89°C

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

Explosive Properties No. Oxidising Properties No.

Vapour Pressure Not applicable
Relative Density Not available
Water Solubility Very 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

reactions

No data available.

10.4 Conditions to Avoid Avoid exposure to heat.10.5 Incompatable Materials Strong oxidising agents.

10.6 Hazardous Decomposition Hazardous products of decomposition may include: Sulphur oxides, ammonia, nickel and nickel oxides.

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. Repeated exposure may cause dermatitis.

LD50 Skin Not available

Ingestion Ingestion may cause gastrointestinal irritation.

LD50 Oral 400mg/kg Rat

Inhalation Prolonged exposure to dust or fume concentrations above the occupational exposure limits may produce irritation

of the eyes, nose, throat and respiratory tract.

LD50 Inhalation Not available TCLo Not available

Carcinogenicity Carcinogenicity, category 1A. Classed as a potential human carcinogen.

Mutagenicity Germ cell mutagenicity, category 2. May be a mutagen.

Reproductive Effects May damage fertility or the unborn child.

Section 12. Ecological

12.1 Toxicity Nickel salts are harmful to the environment.

LC50 Algal Not available
LC50 Crustacea Not available
LC50 Fish Not available

12.2 Persistence and degradability

No data available.

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

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 Use a licensed waste disposer.

Contaminated Packaging Use a licensed waste disposer.

Section 14. Transport Information

14.1 UN Number 3288

14.2 Proper Shipping Name Toxic solid, inorganic, N.O.S. (Ammonium

Nickel Sulphate)

14.3 Transport classes

UN classification 6.1
Subsidiary hazard(s) None
Transport category 2
ADR Hazard ID 60
Tunnel Restriction Code E

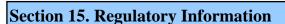
14.4 Packing Group III

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.



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

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

Classification Acute toxicity, category 4 (oral); Acute toxicity, category 4 (inhalation); 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

TOXIC

environment, category 1

Signal word Danger

Hazard Pictograms







Hazard Statements H350, H360, H341, H372, H302+H332, H334, H317, H410

May cause cancer. May damage fertility or the unborn child. Suspected of causing genetic defects. Causes damage to organs through prolonged or repeated exposure. Harmful if inhaled or swallowed. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. Very toxic to aquatic

life with long lasting effects.

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

H350, H360, H341, H372, H334, H317, H410

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

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, P280, P264, P260

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. Do not breathe dust.

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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