Vickers Laboratories Ltd - Safety Data Sheet

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

Revision: 1.2 16 April 2021 Revision date: Date printed: 03 February 2023

Section 1. Identification

Product Identifier 2347

> Product Name HYDROXYLAMINE HYDROCHLORIDE A.R.

CAS Number

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.

NH OH.HC1 =69.49 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** Vickers Laboratories Ltd

CKERS

Grangefield Industrial Estate

Richardshaw Road

Pudsey

West Yorkshire LS28 6QW

UNITED KINGDOM

Phone 44 0113 2362811 Fax +44(0)113 2362703 Email safety@viclabs.co.uk Website www.viclabs.co.uk

Emergency Telephone (08:00-16:30) +44(0) 113 2362811

(Have this document to hand)

Section 2. Hazards Identification

2.1 Classification of the substance or mixture

Classification according to regulation 1272/2008/EC

Corrosive to metals, category 1 H290: May be corrosive to metals. Acute toxicity, category 4 (oral) H302: Harmful if swallowed. Skin corrosion/irritation, category 2 H315: Causes skin irritation. H312: Harmful in contact with skin. Acute toxicity, category 4 (dermal) Serious eye damage/irritation, category 2 H319: Causes serious eye irritation.

Skin sensitization, category 1 H317: May cause an allergic skin reaction. H351: Suspected of causing cancer.

Carcinogenicity, category 2

Spec target organ tox - repeat, category 2 H373: May cause damage to organs through prolonged or repeated exposure.

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

2.2 Label elements

Labelling according to regulation 1272/2008/EC

Signal word Warning

Hazard Pictograms









Hazard Statements May be corrosive to metals. Suspected of causing cancer. Harmful in contact with skin. Harmful if swallowed.

May cause damage to organs through prolonged or repeated exposure. Causes serious eye irritation. Causes skin

irritation. May cause an allergic skin reaction. Very toxic to aquatic life.

Precautionary Statements Keep away from heat / sparks/open flames/hot surfaces - No smoking. Keep / Store away from clothing

/ combustible materials. Take any precaution to avoid mixing with combustibles... Wear protective

gloves / protective clothing / eye protection.

Section 3. Composition

3.1 Substances

Component	CAS No.	EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
Hydroxylamine hydrochloride	5470-11-1	226-798-2		>99%	Met. Corr. 1,Acute Tox. 4 (O),Skin Irrit. 2,Acute Tox. 4 (D),Eye Irrit. 2,Skin Sens. 1,Carc. 2,STOT RE 2,Aquatic Acute 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. If discomfort persists OBTAIN MEDICAL ATTENTION.

Inhalation Remove from exposure.

Ingestion Wash out the patients mouth thoroughly with water. Do not induce vomiting. OBTAIN MEDICAL

ATTENTION.

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 Avoid breathing dust. Use approved personal protective equipment. Evacuate area immediately. 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 Shovel/sweep up into container for removal 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 to a minimum.

7.2 Conditions for safe storage, including any incompatibilities

Well ventilated, cool, dry storage . Protect against moisture to prevent decomposition and corrosion.

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 15min period)			
Hydroxylamine hydrochloride	5470-11-1	>99%	-	-	-	-		

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 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 White crystalline powder.
Odour No specific odour.
pH 4 @ 20°C

Boiling Point Not available Melting Point 157°C

Flash Point Not applicable
Upper Flammable Limit
Lower Flammable Limit
Auto Ignition Not applicable
Explosive Properties No.

Oxidising Properties No.

Vapour Pressure Not applicable Relative Density 1.6700 Water Solubility 50%

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 but starts to decompose at 120C liberating hydrogen chloride.

10.3 Possibility of hazardous

reactions

No data available.

10.4 Conditions to Avoid Avoid contact with moisture and temperatures above 120C.

10.5 Incompatable Materials Alkalies and nitrites.

10.6 Hazardous Decomposition When heated to decomposition emits hydrogen chloride. Contact with alkalies liberates ammonia.

Products

Section 11. Toxicological Information

11.1 Information on toxicological effects

Eyes Contact with the solid or dust may cause conjunctival irritation and corneal damage.

Skin Contact with the solid or dust may be irritating to the skin. Repeated exposure may cause dermatitis.

LD50 Skin Not available

Ingestion Harmful if swallowed.

LD50 Oral 650mg/kg Rat

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

of the eyes and respiratory tract.

LD50 Inhalation Not available TCLo Not available

Carcinogenicity Classed as a potential human carcinogen.

Mutagenicity Not considered to be a mutagen.

Reproductive Effects None identified.

Section 12. Ecological

12.1 Toxicity Toxic to fish-LC50 (Foldorfen test) <10ppm. Very toxic to aquatic organisms.

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

12.2 Persistence and No data available.

degradability

al 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 Dispose of in a licensed incinerator.

Contaminated Packaging Wash out containers with water. Use a licensed waste disposer.

Section 14. Transport Information

14.1 UN Number 2923

14.2 Proper Shipping Name Corrosive solid, toxic, N.O.S. (Hydroxylamine

Hydrochloride)

14.3 Transport classes

UN classification Subsidiary hazard(s) 6.1 Transport category 3 ADR Hazard ID 86 **Tunnel Restriction Code** Е Ш 14.4 Packing Group

14.5 Environment hazards See section 12.

14.6 Special precautions for No special precautions required.

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 Corrosive to metals, category 1; Acute toxicity, category 4 (oral); Skin corrosion/irritation, category 2; Acute

toxicity, category 4 (dermal); Serious eye damage/irritation, category 2; Skin sensitization, category 1; Carcinogenicity, category 2; Spec target organ tox - repeat, category 2; Hazard to aquatic environment, category 1

CORROSIVE

Signal word Warning

Hazard Pictograms









TOXIC

Hazard Statements H290, H351, H312, H302, H373, H319, H315, H317, H400

> May be corrosive to metals. Suspected of causing cancer. Harmful in contact with skin. Harmful if swallowed. May cause damage to organs through prolonged or repeated exposure. Causes serious eye irritation. Causes skin irritation. May cause an allergic skin reaction. Very toxic to aquatic life.

Precautionary Statements P210, P220, P221, P280

Keep away from heat / sparks/open flames/hot surfaces - No smoking. Keep / Store away from clothing / combustible materials. Take any precaution to avoid mixing with combustibles... Wear protective

gloves / protective clothing / eye protection.

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

Revision number: 1.2 (Supercedes revision 1.1)

Revision date: 16 April 2021

Reviewed by chemist: 16 April 2021

Printed date: 03 February 2023

Copyright: 2023 Vickers Laboratories Ltd