SAFETY DATA SHEET



HYDROXYLAMINE HYDROCHLORIDE

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

1.1 Product identifier:	
CAS Number:	5470-11-1
EC number:	226-798-2
1.2 SYNONYMS:	hydroxylammonium chlorideHydroxylamine chloride
	Hydroxylamine chlorohydrate
	Hydroxyamine hydrochloride

SECTION 2: Hazards identification:

2.1 Classification of the substance or mixture:	Classification according to Regulation (EC) No 1272/2008 The substance is classified according to the CLP regulation.
2.2 Label elements:	Labelling according to Regulation (EC) No 1272/2008 Corrosive to Metals, (Category 1) Acute toxicity, oral (Category 4) Acute toxicity, dermal (Category 4) Skin irritation, (Category 2) Eye irritation, (Category 2) Skin sensitization, (Category 1) Carcinogenicity, (Category 2) Specific target organ toxicity - repeated exposure, (Category 2),
YOUR CHEM Hazard Pictograms:	spleen Short-term (acute) aquatic hazard, (Category 1) Long-term (chronic) aquatic hazard, (Category 2)
Signal Word:	Danger



Hazard statements:	H290: May be corrosive to metals. H302 + H312: Harmful if swallowed
	or in contact with skin.
	H315: Causes skin irritation.
	H317: May cause an allergic skin
	reaction.
ECTI	H319: Causes serious eye irritation.
	H351: Suspected of causing cancer.
	H373: May cause damage to organs
	(spleen) through prolonged or
	repeated exposure if swallowed.
	H410: Very toxic to aquatic life with
	long lasting effects.
Precautionary Statements:	P273: Avoid release to the
	environment.
	P280: Wear protective gloves/
	protective clothing/ eye protection/
	face protection.
	P301 + P312: IF SWALLOWED: Call a
	POISON CENTER/ doctor if you feel unwell.
	P302 + P352 + P312: IF ON SKIN:
	Wash with plenty of water.Call a
	POISON CENTER/ doctor if you feel
	unwell.
	P305 + P351 + P338: IF IN EYES:
	Rinse cautiously with water for
	several minutes. Remove contact
	lenses, if present and easy to do.
	Continue rinsing.
	P308 + P313: IF exposed or
	concerned: Get medical advice/
	attention.
	P405: Store locked up.
	P501: Dispose of contents/ container
27.014	to an approved waste disposal plant.
2.3 Other hazards:	
Inhalation:	can cause respiratory irritation,
	coughing, shortness of breath, and
	in severe cases, damage to the
	respiratory tract.



Ingestion	can cause nausea veniting
Ingestion:	can cause nausea, vomiting,
	abdominal pain, and may lead to
	severe damage to the
	gastrointestinal tract.
Skin Contact:	can cause irritation, redness, and
	chemical burns, particularly with
E E E E	prolonged exposure.
Eye contact:	can cause severe irritation, redness,
	pain, and potential damage to the
	cornea.
Chronic Exposure:	can lead to respiratory problems,
	skin sensitization, and potential
	damage to the liver and kidneys.
Aggravation of pre-existing	can aggravate pre-existing
conditions:	respiratory conditions, such as
	asthma or bronchitis, and may
	worsen skin conditions like
	dermatitis.

SECTION 3: Composition/information on ingredients

3.1 Chemical characterisation:	Substances
CAS No:	Description: 5470-11-1
	HYDROXYLAMINE
	HYDROCHLORIDE
Identification number(s):	EC number: 226-798-2

SECTION 4: First aid measures

4.1 Description of first aid	
measures	
General information:	
After inhalation:	If breathed in, move person into
	fresh air. If not breathing, give
	artificial respiration. Consult a
	physician.



After skin contact: After eye contact:	Remove contaminated clothing immediately .Wash with plenty of water. Consult a physician. Immediately flush eyes with plenty of water for at least 15 minutes. consult a physician.
After swallowing:	Rinse mouth with water. Immediately after ingestion Never give anything by mouth to an unconscious person. Do not induce vomiting. Consult a physician.
4.2 Most important symptoms and effects, both acute and delayed:	Acute exposure can cause respiratory irritation, gastrointestinal distress, and skin or eye burns, while delayed effects may include persistent lung damage, skin sensitization, or organ toxicity with prolonged exposure.
4.3 Indication of any immediate medical attention and special treatment needed:	Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media:	Water, Carbon dioxide dry powder
5.2 Special hazards arising from	Nitrogen oxides, hydrogen chloride
the substance or mixture:	gas.
5.3 Advice for firefighters:	Wear fully protective suit, safety glasses and respiratory device. Cool tanks/drums with water spray/remove them into safety.
5.4 further information:	no data available



SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:	Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Avoid dust accumulation. Seek
6.2 Environmental precautions:	medical attention. Do not enter this chemical into drains.
6.3 Methods and material for containment and cleaning up:	Take up spill into absorbent material, e.g.: sand, earth, vermiculite, powdered limestone. Scoop absorbed substance into closing containers. Spill must not return in its original container. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling

SECTION 7: Handling and storage

7.1 Precautions for safe handling:	For use in are with adequate
	ventilation.
	Empty containers pose a fire risk,
	evaporate the residue under a
	fume hood. Ground all equipment
	containing material.
	Do not use in confined spaces.
VOUD CUEMI	Electrostatic discharge protection.
YUUR GHEMI	Minimize dust generation and
10011 01121111	accumulation. Avoid ingestion and
	inhalation.
7.2 Conditions for safe storage,	Store in original containers.
including any incompatibilities:	Keep containers securely sealed
	Store in a cool, dry, well-ventilated
	area. Store away from incompatible
	materials and foodstuff containers.



	Protect containers against physical
	damage and check regularly for
	leaks. Store in a dry and dark area.
	Keep away from moisture.
Requirements to be met by	Keep container tightly closed in a
storerooms and receptacles:	dry and well-ventilated place.
	Containers which are opened must
LOID	be carefully resealed and kept
	upright to prevent leakage.
7.3 Specific end uses:	no data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters	
Additional information about	A system of local and general
design of technical facilities:	exhaust is recommended.
8.2 Exposure controls	
Appropriate engineering controls	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Personal protective equipment:	Dust respirator, protective masks, wearing anti chemical gloves, rubber gloves, etc.
General protective and hygienic measures:	Eyes, body and hand protection, maintain indoor air unobstructed. Wear protective equipment.
	Respiratory protection: Required.
YOUR CHEMI	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws. Wash and dry hands.
	Eye protection: Required
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Protection of Body:	Complete suit protecting against
	chemicals, Flame retardant
	antistatic protective clothing.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties	.1370
General Information	
Appearance: Form:	Crystalline powder
Colour:	White to off white
Odour:	Slight ammonia like odor
pH-value:	6
Melting point/Melting range:	170°C
Boiling point/Boiling range:	200°C
Flammability (solid, gaseous):	Flammable when heated
Ignition temperature:	400°C
Decomposition temperature:	170°C
Self-igniting:	None
Flash point:	Not applicable
Danger of explosion:	Yes under certain conditions.
Explosion limits: Lower:	Not determined
Explosion limits: Upper:	Not determined
Vapour pressure:	Not determined
Density at 20 °C:	1.32 g/cm ³
Relative density:	1.32
Vapour density:	Not applicable
Evaporation rate:	Not determined
Solubility in / Miscibility with-	Soluble
·water at 20 °C:	
Partition coefficient:(n-	Not determined
octanol/water)	
Viscosity:	Not applicable



SECTION 10: Stability and reactivity

10.1 Reactivity	Highly reactive when heated to
	decomposition
10.2 Chemical stability	This chemical is unstable under
	storage conditions, do not kept
	under incompatible environments
EQTI	for a long time.
10.3 Possibility of hazardous	Decomposes violently when
reactions	exposed to heat, strong acids or
	oxidizing agents.
10.4 Conditions to avoid	Heat, moisture, direct sunlight,
	shocks.
10.5 Incompatible materials	Strong oxidizing agents, strong
	acids, strong bases, metals such as
	iron, zinc and copper.
10.6 Hazardous decomposition	Nitrogen oxides, ammonia,
products	hydrogen gas.

SECTION 11: Toxicological information

11.1 Information on toxicological effects	
Acute Toxicity:	LD50 (Oral, Rat): 642 mg/kg LD50 (Dermal, Rabbit): 1.100 mg/kg LC50 (Inhalation Rat): no data available
Skin corrosion/Irritation:	Causes serious skin irritation
Serious eye damage/irritation:	Causes serious eye irritation
Respiratory damage/irritation:	No data available
Ingestion:	No data available
Germ cell mutagenicity:	No data available
Carcinogenicity:	Suspected of causing cancer
Reproductive toxicity:	No data available
Specific target organ toxicity -	No data available
single exposure:	
Specific target organ toxicity -	May cause damage to spleen
repeated exposure:	through repeated exposure.
Aspiration hazard:	No data available
Signs and Symptoms of Exposure:	Refer section 2.3



11.2 Additional toxicological	
information	
Biodegradability:	Not determined

SECTION 12: Ecological information

12.1 Toxicity	LC50(fish): 1.78 mg/l (96hr)
Aquatic toxicity:	EC50(daphnia): 1.1 mg/l (48 hr)
	ErC50(algae): 0.21 mg/l (72 hr)
12.2 Persistence and	Not determined
degradability:	
12.3 Bioaccumulative potential:	Not bioaccumulative
12.4 Mobility in soil:	Low mobility
12.5 Other adverse effects:	No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods	
Uncleaned packaging	dispose of in accordance with local
Recommendation:	hazardous waste regulations
Recommended cleansing agents:	Water with mild detergent, sodium
	bicarbonate.

SECTION 14: Transport information

14.1 UN-Number · ADR, ADN,	3026
IMDG, IATA:	
14.2 UN proper shipping name ·	HYDROXYLAMINE
ADR, ADN, IMDG, IATA:	HYDROCHLORIDE
14.3 Transport hazard class(es) ·	8
ADR, ADN, IMDG, IATA :	\cap \wedge \cup \cup \wedge \cup
14.4 Packing group · ADR, IMDG,	3
IATA:	
14.5 Environmental hazards:	Yes, harmful for aquatic life.
14.6 Special precautions for user:	Handle responsibly.



SECTION 15: Regulatory information

15.1 Safety, health and	Directive 2012/18/EU, under that
environmental	this substance is classified in listed
regulations/legislation specific	substances as toxic and
for the substance or mixture	environmentally hazardous
Directive 2012/18/EU	substances.
Named dangerous substances:	This substance is listed in the
E911	annex 1 to the directive.
15.2 Chemical safety assessment:	Chemical assessment has not been
	carried out.

SECTION 16: Other information

The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and limitations of our knowledge, this document is only for reference. Users should make their independent judgment suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.

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