

Safety Data sheet

According to Directive 1907/2006

0732 AMMONIUM HYDROXYCHLORIDE+HYDROCHLORIC ACID 36% w

Creation Date: 01/12/2010 Revision date: 31/05/2017

1. Identification of the substance/preparation and of the company/undertaking

Identification of the product

Catalogue No: 0732 Product name: AMMONIUM HYDROXYCHLORIDE+HYDROCHLORIC ACID 36% w Use of the substance: Analysis and chemical-pharmaceutical production

Company/undertaking identification

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2. Hazards identification

Labelling in accordance with directive 1907/2006



R-phrases

22 Harmful if swallowed.
36/38 Irritating to eyes and skin.
43 May cause sensitization by skin contact.
48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed.
50 Very toxic to aquatic organisms.

S-phrases

22 Do not breathe dust.
24 Avoid contact with skin.
37 Wear suitable gloves.
61 Avoid release to the environment. Refer to special instructions / Safety data sheets.

Labelling in accordance with directive 1272/2008

**H-phrases**

302 Harmful if swallowed.
317 May cause an allergic skin reaction.
400 Very toxic to aquatic life.
319 Causes serious eye irritation.
315 Causes skin irritation.
373 May cause damage to organs through prolonged or repeated exposure.

P-phrases

309+311 IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.
261 Avoid breathing dust/fume/gas/mist/vapours/spray.
305+351 If in eyes: Rinse cautiously with water for several minutes.
338 Remove contact lenses, if present and easy to do. Continue rinsing.
260 Do not breathe dust/fume/gas/mist/vapours/spray.
314 Get medical advice/attention if you feel unwell.
273 Avoid release to the environment.
391 Collect spillage.

Signal word : WARNING

HARMFUL; DANGEROUS FOR ENVIRONMENT

R-phrases:

Harmful if swallowed.

Irritating to eyes and skin.

May cause sensitization by skin contact.

Harmful: danger of serious damage to health by prolonged exposure if swallowed.

Very toxic to aquatic organisms.

3. Composition/information on ingredients

Aqueous solution

Short hazard description

HYDROXYLAMINE HYDROCHLORIDE (CAS-Nr. 5470-11-1, EINECS-Nr. 226-798-2) 1-5%

R-Phrases: 2; 21/22; 36/38; 40; 43; 48/22; 50

EXPLOSIVE; HARMFUL; DANGEROUS FOR ENVIRONMENT

HYDROCHLORIC ACID 35% w/w (CAS-Nr. 7647-01-0, EINECS-Nr. 231-595-7) 5-10%

R-Phrases: 34; 37

CORROSIVE

For the full text of the R phrases mentioned in this section, see Section 16.

R-phrases 22; 36/38; 43; 48/22; 50

For more information about the R-Phrases text you can consult the paragraph 16

4. First aid measures

Search immediate medical assistance

Search immediate medical assistance

Gloves necessity

Help the injured person wearing suitable protective equipment.

After inhalation:

Fresh air

If necessary, artificial respiration
Call the physician
After skin contact:
Rinse with abundant water (or have a shower)
Get rid of the contaminated clothes
If sickness persists, call the physician

After eye contact:

Rinse with abundant water, keeping eyelids open (at least 10 min)
Call the ophthalmologist

After swallowing:

Avoid vomiting
Drink lots of water
Call the doctor

5. Fire-fighting measures

Suitable extinguishing media:

Adapt the materials of the surroundings

Special risks:

Fireproof

The following may develop in event of fire: hydrochloric acid

In case of fire, nitrous gases can be formed

Special protective equipment for fire fighting:

Remain in the risk area only if provided with independent artificial respiratory systems.

Other information:

Avoid the penetration of the extinction water in superficial or subterranean aquifers.

6. Accidental release measures

Person-related precautionary measures:

Ventilation in closed spaces

Avoid contact with the substance

Not to inhale steam/aerosols

Procedures for cleaning/absorption:

To gather with absorbents

To come to the elimination of the remainders

Rinse.

Environmental protection measures:

Do not send it to the sewerage system

7. Handling and storage

Handling: Without other exigencies

Storage:

Well closed

Dry place.

Do not use metallic containers

8. Exposure controls/personal protection

Exposure limit control

HYDROCHLORIC ACID 35% w/w

TLV-TWA: 5 ppm (7,6 mg/m³). TLV-STEL: 10 ppm (15 mg/m³)

Personal protective equipment:

Respiratory protection:

Necessary when steam/aerosols are generated

Hand protection:

Needed

Nitrile rubber

Eye protection:

Needed

Skin and body protection:

Protective clothing against acid

Other protective equipment:

Change immediately contaminated clothes

Recommendable preventive protection of the skin

Wash hands and face when the work is finished

Fulfill the commitments under local environmental protection legislation

9. Physical and chemical properties

Physical state: Liquid

Colour: Colourless

Odour: Spicy

pH value: <1

Solubility: Soluble in water

10. Stability and reactivity

Substances to be avoided:

Strong oxidizing agents.

Esters.

Copper compounds.

Zinc.

Chlorates.

Phosphorus.

Metals.

Hazardous decomposition products:

Nitrous gases.

Hydrogen chloride.

Chlorine.

Further information:

To avoid heating.

Incompatible with metals.

11. Toxicological information

Acute toxicity:

LD50(oral,mouse): 408 mg/kg; LD50(oral,rat): 141 mg/kg (hydroxylamine clorhydrate)

After eye contact:

Irritation

Risk of serious damage to eyes

Corrosive

After skin contact:

Irritations

Risk of skin sensitization

Burns

After inhalation:

Very corrosive substance

Damage to the affected mucous membranes

Coughing

Dyspnoea

Nausea

Vomiting

After long contact:

Cyanosis

Weight loss

CNS disorders

After swallowing:

Nausea

Vomiting

Vertigo

Drop in blood pressure

Cyanosis

Headaches

Dyspnoea

Further toxicological information:

Other dangerous characteristics are not discarded

Take the usual precautions for handling chemical products

12. Ecological information

No information available

Other harmful effects:

Highly toxic for aquatic organisms

Harmful effect due to pH shift

Do not allow to enter waters, waste water, or soil

13. Disposal considerations

Product:

Dispose as regulated in the community countries by local regulations.

Please contact with the suitable authority in each case (Public Administration or company specialized in

Packaging:

Product packaging disposal must be disposed of in compliance with the respective local regulations.

For contaminated packaging the same measures must be adopted as for the contaminated product.

Not contaminated packaging must be disposed of as domestic residues or recycled material.

European Directive 94/62/EC of 20 December 1994 on packaging and packaging waste

14. Transport information

Overland transport ADR/RID

UN: 3264

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Class: 8
Packaging group: II
Correct technical name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.

Sea transport IMDG

UN: 3264
Class: 8/II
Packaging group: II
Correct technical name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.

Air transport ICAO-IATA-DGR

UN: 3264
Class: 8
Packaging group: II
Correct technical name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
CAO: 812
PAX: 808

15.Regulatory information

16.Other information

Full text of R phrases mentioned in sections 2 and 3

2 Risk of explosion by shock, friction, fire or other sources of ignition.

21/22 Harmful in contact with skin and if swallowed.

36/38 Irritating to eyes and skin.

40 Limited evidence of a carcinogenic effect.

43 May cause sensitization by skin contact.

48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed.

50 Very toxic to aquatic organisms.

34 Causes burns.

37 Irritating to respiratory system.

22 Harmful if swallowed.

The information contained herein is based on the present state of our knowledge.

It characterizes the product with regard to appropriate safety precautions. It does not represent a guaranty of the properties of the product.