

Trade name: Natrii chloricum /Unkrautvert.

Substance number: 066008 Version: 2 / CH Date revised: 29.03.12

Replaces Version: 1 / CH Date of printing: 29.03.12

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

1.1. Product identifier

Natrii chloricum /Unkrautvert.

Item-No. 06600800

1.3. Details of the supplier of the safety data sheet

Address

Hänseler AG Industriestrasse 35 9101 Herisau

Telephone no. 0041 (0)71 353 58 58 E-mail address of sdb@haenseler.ch

person responsible for this SDS

1.4. Emergency telephone number

Switzerland: 145 / Abroad +41 (0)44 251 51 51

2. Hazards identification ***

2.1. Classification of the substance or mixture

Classification (Regulation (EC) No. 1272/2008)

Classification (Regulation (EC) No. 1272/2008)

Ox. Sol. 1 H271 Acute Tox. 4 H302 Aquatic Chronic 2 H411

Classification in accordance with EC directives

Classification O, R9

Xn, R22 N, R51/53

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Hazard pictograms ***



Signal Word ***

Danger

Hazard statements ***

H271 May cause fire or explosion; strong oxidiser.

H302 Harmful if swallowed.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P220 Keep/Store away from clothing/.../combustible materials.

P273 Avoid release to the environment.

P306+P360 IF ON CLOTHING: rinse immediately contaminated clothing and skin with plenty



Trade name: Natrii chloricum /Unkrautvert.

Substance number: 066008 Version: 2 / CH Date revised: 29.03.12

Replaces Version: 1 / CH Date of printing: 29.03.12

of water before removing clothes.

P371+P380+P375 In case of major fire and large quantities: Evacuate area. Fight fire remotely due

to the risk of explosion.

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

Labelling in accordance with EC directives 1999/45/EC and 67/548/EEC

The product is classified and labelled in accordance with EC directives/the relevant national laws.

Hazard symbols







environment

Oxidizing

R phrases

9 Explosive when mixed with combustible material.

22 Harmful if swallowed.

51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

S phrases

2 Keep out of the reach of children.

13 Keep away from food, drink and animal feedingstuffs.

17 Keep away from combustible material.

46 If swallowed, seek medical advice immediately and show this container or label.

Avoid release to the environment. Refer to special instructions/Safety data

sheets.

Hazardous component(s) to be indicated on label

contains Sodium chlorate

3. Composition/information on ingredients

Chemical characterization

substances

Hazardous ingredients

Sodium chlorate

CAS No. 7775-09-9 EINECS no. 231-887-4

Concentration >= 50 %
Classification Xn, R22

O, R9 N, R51/53

Classification (Regulation (EC) No. 1272/2008)

Ox. Sol. 1 H271 Acute Tox. 4 H302 Aquatic Chronic 2 H411

4. First aid measures

4.1. Description of first aid measures

General information



Trade name: Natrii chloricum /Unkrautvert.

Substance number: 066008 Version: 2 / CH Date revised: 29.03.12

Replaces Version: 1 / CH Date of printing: 29.03.12

Remove contaminated clothing immediately and dispose of safely. Adhere to personal protective measures when giving first aid.

After inhalation

Ensure supply of fresh air. If necessary, give oxygen. Heat. In the event of symptoms take medical treatment.

After skin contact

Wash off immediately with soap and water and rinse well. Consult a doctor if skin irritation persists.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). Begin with medical treatment.

After ingestion

Rinse out mouth and give plenty of water to drink. Induce vomiting if patient is conscious, seek medical advice.

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

Irritation of mucosa, Nausea, Dizziness, Gastrointestinal complaints, Cyanosis

5. Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide, Water spray jet, Extinguish greater fire with water spray or alcohol-resistant foam.

Non Suitable extinguishing media

Dry powder

5.2. Special hazards arising from the substance or mixture

Chlorine (Cl2); Oxygen

5.3. Advice for firefighters

Special protective equipment for fire-fighting

Use self-contained breathing apparatus.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep away unprotected persons.

6.2. Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

6.3. Methods and material for containment and cleaning up

Take up mechanically and collect in suitable container for disposal. Flush away residues with hot water.

7. Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Keep container tightly closed. Provide good ventilation of working area (local exhaust ventilation if necessary). Avoid dust formation. Dust deposits that cannot be avoided must be taken up regularly.

Advice on protection against fire and explosion

Substance/product in the dry state promotes fires. Keep away from sources of ignition - refrain from smoking.

7.2. Conditions for safe storage, including any incompatibilities



Trade name: Natrii chloricum /Unkrautvert.

Substance number: 066008 Version: 2 / CH Date revised: 29.03.12

Replaces Version: 1 / CH Date of printing: 29.03.12

Requirements for storage rooms and vessels

Keep in a cool place.

Hints on storage assembly

Do not store with combustible materials. Keep away from reducing agents. Do not store with acids.

Further information on storage conditions

Protect from heat and direct sunlight. Keep container tightly closed and dry in a cool, well-ventilated place. Protect from atmospheric moisture and water. Product is hygroscopic.

8. Exposure controls/personal protection

8.2. Exposure controls

Exposure controls

See chapter 7. No measures exeeding the ones mentioned are necessary.

General protective and hygiene measures

Keep away from food-stuffs, beverages and feed-stocks. At work do not eat, drink, smoke or take drugs. Wash hands before breaks and after work. Hold eye wash fountain available. Do not inhale dust/fumes/mist.

Respiratory protection

Breathing apparatus in the event of aerosol, mist or fume formation. Particle filter P2

Hand protection

Prote	ctive	alo'	ves
		9.0	

Appropriate Material Natural Latex

Material thickness 0.5 mm
Penetrating time > 8 h

Appropriate Material Polychloroprene

Material thickness 0.5 mm
Penetrating time > 8 h

Appropriate Material nitrile rubber - NBR
Material thickness 0.35 mm

Material thickness 0.35 mm

Penetrating time > 8 h

Appropriate Meterial Public Public

Appropriate Material Butyl rubber - Butyl Material thickness 0.5 mm

Penetrating time > 8 h
Appropriate Material Fluoro carbon rubber - FKM
Material thickness 0.4 mm

8

h

Penetrating time > Appropriate Material PVC

Material thickness 0.5 mm
Penetrating time > 8 h

Eye protection

Tightly fitting safety glasses

Body protection

Protective clothing; rubber boots

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form crystalline
Colour colourless
Odour odourless

Melting point



Trade name: Natrii chloricum /Unkrautvert.

Substance number: 066008 Version: 2 / CH Date revised: 29.03.12

Replaces Version: 1 / CH Date of printing: 29.03.12

Value 248 to 261 ℃

method DIN 51761

Boiling point

Remarks Not determined

Flash point

Remarks Not applicable

Flammability

Not ignitable

Danger of fire if contact with combustible materials.

Density

Value 2.49 g/cm³

method DIN 51757

Solubility in water

Value 715 g/l

Temperature 20 ℃

Thermal decomposition

Value 300 ℃

Efflux time

Remarks Not applicable

9.2. Other information

Other information

The product is dangerous for explosions.

10. Stability and reactivity

10.4. Conditions to avoid

To avoid thermal decomposition, do not overheat.

Thermal decomposition

Value 300 ℃

10.5. Incompatible materials

Do not store with combustible materials. Reactions with metals in powder form. Violent reaction with organic compounds like wood, paper, grease. Reaction with ammonium compounds, Reactions with acids. Reactions with reducing agents. Reactions with sulphur and sulfides, phosphorus. Incompatible with: combustible substances

10.6. Hazardous decomposition products

Chlorine compounds, Oxygen

Other information

shock-sensitive. friction-sensitive

11. Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity

Species rat

LD50 1200 mg/kg

Acute dermal toxicity

Species rabbit



Trade name: Natrii chloricum /Unkrautvert.

Substance number: 066008 Version: 2 / CH Date revised: 29.03.12

Replaces Version: 1 / CH Date of printing: 29.03.12

LD50 > 10000 mg/kg

Acute inhalational toxicity

Species rat

LC50 > 7 mg/l

Duration of exposure 4 h

Skin corrosion/irritation

Remarks Irritating effects on the skin and mucous membrane.

Serious eye damage/irritation

Remarks Irritates the eyes.

Sensitization

Remarks No sensitation effect known.

Subacute, subchronic, chronic toxicity

Remarks Repeated absorption/exposure may cause disorder of the kidneys.

Remarks Change of blood count possible.

12. Ecological information ***

12.1. Toxicity

Fish toxicity

Species rainbow trout (Oncorhynchus mykiss)

LC50 1750 mg/l

Duration of exposure 96 h

Species Fathead minnow (Pimephales promelas) LC50 13500 mg/l

Duration of exposure 96 h

Daphnia toxicity

Species Daphnia magna

EC50 1093 mg/l

Duration of exposure 24 h

Algae toxicity

IC50 133 mg/l

Duration of exposure 72 h

12.6. Other adverse effects

General information / ecology

Do not allow it to reach ground water, water bodies or sewage system. Hazard for drinking water supplies.

13. Disposal considerations

13.1. Waste treatment methods

Disposal recommendations for the product

EWC waste code No not dispose with rubbish.

EWC waste code Should not be released into the sanitary sewer system. In accordance with regulations for special waste, must be taken, to an underround disposal site.

Disposal recommendations for packaging

Disposal in compliance with local and national regulations.

14. Transport information

Land transport ADR/RID



Trade name: Natrii chloricum /Unkrautvert.

Substance number: 066008 Version: 2 / CH Date revised: 29.03.12

Replaces Version: 1 / CH Date of printing: 29.03.12

14.1. UN number

UN 1495

14.2. UN proper shipping name

SODIUM CHLORATE

14.3. Transport hazard class(es)

Class 5.1 Label 5.1

14.4. Packing group

Packing group II

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS

Marine transport IMDG/GGVSee

14.1. UN number

UN 1495

14.2. UN proper shipping name

SODIUM CHLORATE

14.3. Transport hazard class(es)

Class 5.1

14.4. Packing group

Packing group I

Environmental labelling ENVIRONMENTALLY HAZARDOUS

Air transport ICAO/IATA

14.1. **UN** number

UN 1495

14.2. UN proper shipping name

SODIUM CHLORATE

14.3. Transport hazard class(es)

Class 5.1

14.4. Packing group

Packing group

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS

15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations Switzerland

Swiss Toxicity Class 3 SFOPH T no. G-2072

15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

16. Other information

R-phrases listed in chapter 3

22 Harmful if swallowed.

51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the

aquatic environment.

9 Explosive when mixed with combustible material.

Hazard statements listed in chapter 3

H271 May cause fire or explosion; strong oxidiser.

H302 Harmful if swallowed.



Trade name: Natrii chloricum /Unkrautvert.

Substance number: 066008 Version: 2 / CH Date revised: 29.03.12

Replaces Version: 1 / CH Date of printing: 29.03.12

H411 Toxic to aquatic life with long lasting effects.

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: *** This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.