

Revision Date: 09/10/2013

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SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product Name Halamid®
Chemical Name Tosylchloramide sodium

1.2 Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Biocidal product
Uses advised against No information available.

1.3 Details of the supplier of the safety data sheet

Exclusive distributor:
Veip b.v.
Molenvliet 1 3961 MT Wijk bij Duurstede The Netherlands
Tel: +31343572244 Fax: +31343577104 Email: info@veip.nl
Producer:
Axcentive SARL
Chemin de Champouse 13320 Bouc Bel Air France
Tel.: +33 442 694 090 Fax : +33 442 694 099 Email: info@axcentive.com

1.4 Emergency telephone number

National Poisons Information Service (London Centre)
+44 20 7771 5307
Global Incident Response Hotline: +1-760-476-3961 (Access code: 333881)

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification (1272/2008/EC)

Acute oral toxicity	Category 4
Skin corrosion/irritation	Category 1B
Respiratory sensitisation	Category 1

Classification according to EU Directives 67/548/EEC or 1999/45/EC

Xn;R22- R31- C;R34 - R42

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

2.2 Label elements



Signal Word
DANGER

Hazard Statements

H302 - Harmful if swallowed
H314 - Causes severe skin burns and eye damage
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

EUH031 - Contact with acids liberates toxic gas

Precautionary statements

P260 - Do not breathe dust/fume/gas/mist/vapours/spray
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting
P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P304 + P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

2.3 Other hazards

None known.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Chemical Name	EC-No	CAS-No	Weight %	Classification (67/548/EEC)	Classification (1272/2008/EC)	REACH Registration Number
Tosylchloramide sodium, trihydrate	204-854-7	7080-50-4	100	Xn; R22 R31 C; R34 R42	Acute Tox. 4 H302 Skin Corr. 1B H314 Resp. Sens. 1 H334	no data available

For the full text of the R-phrases mentioned in this Section, see Section 16.
For the full text of the H-Statements mentioned in this Section, see Section 16.

Also listed as the anhydrous form (CAS No. 127-65-1) which is not commercially available.



SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General advice	Immediate medical attention is required.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult a physician.
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention.
Ingestion	Rinse mouth. Drink plenty of water. Do NOT induce vomiting. Get medical attention. Never give anything by mouth to an unconscious person.
Inhalation	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention immediately if symptoms occur.
Protection of first-aiders	Use personal protective equipment. Avoid contact with skin, eyes and clothing.

4.2 Most important symptoms and effects, both acute and delayed

Main symptoms	Burning feeling and temporary redness. Harmful if swallowed. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
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4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	Treat symptomatically.
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SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media	Foam, Dry powder, Water spray, Carbon dioxide (CO ₂).
Extinguishing media which must not be used for safety reasons	None known based on information supplied.

5.2 Special hazards arising from the substance or mixture

Special hazard	Hazardous decomposition products formed under fire conditions: Nitrogen oxides (NO _x), Sulphur oxides, Hydrogen chloride.
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5.3 Advice for firefighters

Special protective equipment for fire-fighters	Wear self-contained breathing apparatus and protective suit.
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SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Do not breathe dust. Avoid contact with the skin and the eyes. Wear suitable protective clothing.

6.2 Environmental precautions

Should not be released into the environment. Prevent further leakage or spillage if safe to do so.

6.3 Methods and material for containment and cleaning up

Avoid dust formation. Sweep up and shovel into suitable containers for disposal. After cleaning, flush away traces with water.

6.4 Reference to other sections

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice. Use only in well-ventilated areas. Do not eat, drink or smoke when using this product.

7.2 Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from moisture, Acids.

7.3 Specific end use(s)

Exposure Scenario	Not available.
Other information	Not available.



SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Exposure limits Contains no substances with occupational exposure limit values

Derived No Effect Level (DNEL) No information available.

Predicted No Effect Concentration (PNEC) No information available.

8.2 Exposure controls

Appropriate engineering controls Do not breathe dust. Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

Eye protection	Tightly fitting safety goggles.
Hand protection	Protective gloves
Skin and body protection	Wear protective gloves/clothing.
Respiratory protection	Respirator must be worn if exposed to dust.
Recommended filter type	P2

Hygiene measures Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use.

Environmental Exposure Controls The product should not be allowed to enter drains, water courses or the soil.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state @20°C	solid
Appearance	crystalline Powder
Colour	white
Odour	slight chlorine
pH	8.0-10.3 (@ 5%)
Melting/freezing point	Decomposes
Boiling point/boiling range	Not applicable (solid)
Flash point	192 °C (Closed cup)
Evaporation rate	No information available
Flammability (solid, gas)	No information available
Flammability Limits in Air	No information available
Vapour pressure	No information available
Vapour density	Not relevant (solid)
Relative density	No information available
Solubility	
Water solubility	150 g/l (@ 25 °C)
Solubility in other solvents	Ethanol (75 g/l @ 20 °C)
Partition coefficient (n-octanol/water)	No information available
Autoignition Temperature	No information available
Decomposition temperature	No information available
Viscosity, dynamic	No information available
Explosive properties	No information available
Oxidising Properties	No information available

9.2 Other information

Density	1430 kg/m ³
Bulk density	540-680 kg/m ³



SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Contact with acids liberates toxic gas.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Contact with acids liberates toxic gas.

10.4 Conditions to avoid

Avoid contact with acids.

10.5 Incompatible materials

Acids,

10.6 Hazardous decomposition products

Chlorine.

**SECTION 11: TOXICOLOGICAL INFORMATION****11.1 Information on toxicological effects**

Acute toxicity	
Ingestion	Harmful if swallowed.
Skin contact	No known effect.
Inhalation	No known effect.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Tosylchloramide sodium, trihydrate	~ 1000 mg/kg (Rat, Mouse)		> 0.275 mg/l (Rat) 4h

Skin corrosion/irritation	Causes severe burns. Aqueous solution: Non-irritating @ <=8%.
Serious eye damage/irritation	Causes severe damage to eyes. Aqueous solution: Non-irritating @ <=8%.
Respiratory or skin sensitisation	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Germ cell mutagenicity	Negative in the Ames test. Micronucleus test: Negative.
Carcinogenicity	Contains no ingredient listed as a carcinogen.
Reproductive toxicity	Not known to cause birth defects or have a deleterious effect on a developing fetus. Not known to adversely affect reproductive functions and organs.
STOT-single exposure	No known effect.
STOT-repeated exposure	Subchronic Toxicity, 96d (Oral): NOEL = 15 mg/kg body weight/day.
Aspiration hazard	No known effect.

**SECTION 12: ECOLOGICAL INFORMATION****12.1 Toxicity**

This product is not known to be hazardous to the environment.

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates.
Tosylchloramide sodium, trihydrate		LC50: 31 mg/l 96h <i>Poecilia reticulata</i>		EC50: 4.5 mg/l 48h <i>Daphnia</i>

12.2 Persistence and degradability

Readily biodegradable

12.3 Bioaccumulative potential

No information available

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Other adverse effects

No information available.

SECTION 13: DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods****Waste from residues / unused products**

European Waste Catalogue. Dispose of in accordance with local regulations.

Contaminated packaging

Dispose of in accordance with local regulations. Do not re-use empty containers.



SECTION 14: TRANSPORT INFORMATION

According to: ADR, RID, ADN, IMDG, ICAO.

14.1 UN number

UN 3263

14.2 UN proper shipping name

CORROSIVE SOLID, BASIC, ORGANIC, N.O.S. (Sodium p-toluenesulfonchloramide)

14.3 Transport hazard class(es)

Hazard Class 8

Additional information: Classification Code C8, Tunnel restriction code E.

14.4 Packing group

Packing group III

14.5 Environmental hazards

Not applicable.

14.6 Special precautions for user

Not applicable.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

SECTION 15: REGULATORY INFORMATION

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

Restrictions on use None.

Other regulations No information available.

15.2 Chemical safety assessment

No information available.



SECTION 16: OTHER INFORMATION

Full text of R-phrases referred to under sections 2 and 3

R22 - Harmful if swallowed
R31 - Contact with acids liberates toxic gas
R34 - Causes burns
R42 - May cause sensitisation by inhalation

Full text of H-Statements referred to under sections 2 and 3

H302 - Harmful if swallowed
H314 - Causes severe skin burns and eye damage
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
EUH031 - Contact with acids liberates toxic gas

Revision Note

Emergency telephone number. Format updated in compliance with European REACH and CLP regulations.

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text