

## SAFETY DATA SHEET

Revision date 24/03/2016

Date of the previous version 09/10/2013

Version 4 EN

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

## 1.1 Product identifier

Product Name Halamid®

Chemical name Tosylchloramide sodium

**CAS-No** 7080-50-4

Additional CAS-No 127-65-1 (anhydrous form, not commercially available)

## 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

Axcentive SARL Axcentive Asia Pte Ltd
Chemin de Champouse 13 Lorong 8 Toa Payoh
13320 Bouc Bel Air #07-01 Braddell Tech Park

France 319261 Singapore Axcentive Asia PTE LTD

Tel.: +33 442 694 090 Tel.: +65 6258 6338
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Email: info@axcentive.com Email: info@axcentive.com

#### 1.4 Emergency telephone number

UK National Health Service (NHS) call 111 or, in life-threatening emergencies, call 999

WAL National Health Service (NHS) call 0845 46 47

IE National Poisons Information Centre

+353 1 809 2566 or +353 1 837 9964 (only for healthcare professionals)

Global Incident Response Hotline (Access code: 333881)

Europe: +44-2035147487 North-America: 1.866.519.4752 South-America: 1.760.476.3962 Asia Pacific: +86-4001203572 Middle East/Africa: 1-760-476-3959 Australia: +61-280363166

Australia: +61-280363166 New Zealand: +64 800 451719

## **SECTION 2: HAZARDS IDENTIFICATION**

#### 2.1 Classification of the substance or mixture

#### Classification (1272/2008/EC)

Acute Oral Toxicity	Category 4 - H302
Skin Corrosion/Irritation	Category 1B - H314
Respiratory Sensitisation	Category 1 - H334

For the full text of the H-Statements mentioned in this section, see Section 16. 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): Take off immediately all contaminated clothing. Rinse skin with water/shower

P304 + P340 - IF INHALED: Remove person to fresh air and keep 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	REACH registration
				(1272/2008/EC)	number
Sodium p-toluenesulfonchloramide,	204-854-7	7080-50-4	100	Acute Tox. 4 H302 Skin Corr. 1B H314	No data available
trihydrate				Resp. Sens. 1 H334	

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** 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.

#### 4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician Treat symptomatically.

## **SECTION 5: FIREFIGHTING MEASURES**

5.1 Extinguishing media

Suitable Extinguishing Media Foam, Dry powder, Water spray, Carbon dioxide (CO2).

None known based on information supplied. **Unsuitable Extinguishing Media** 

5.2 Special hazards arising from the substance or mixture

Hazardous decomposition products formed under fire conditions: Nitrogen oxides (NO<sub>x</sub>), **Special Hazard** 

Sulphur oxides, Hydrogen chloride.

5.3 Advice for firefighters

Special protective equipment for

Wear self-contained breathing apparatus and protective suit.

fire-fighters

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

## 6.1 Personal precautions, protective equipment and emergency procedures

Do not breathe dust. Avoid contact with skin, eyes and clothing. 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.

Not available.

## 7.3 Specific end use(s)

Other information

**Exposure scenario** Not available.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

**Exposure Limits** Contains no substances with occupational exposure limit values.

**Biological Limit Values** Not established.

Recommended monitoring

procedures

Refer to European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) or equivalent national standard(s). Refer to European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) or equivalent national standard(s). Refer to European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and

measurement strategy) or equivalent national standard(s).

**Derived No Effect Level (DNEL)** No information available.

Predicted No Effect Concentration No information available.

(PNEC)

## 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

**Eve Protection** Tightly fitting safety goggles.

**Hand Protection** Protective gloves: Nitrile rubber, Butyl rubber, PVC, Viton®, Neoprene. Break through

time: 4-8 hours.

**Skin and Body Protection Respiratory Protection** 

Long sleeved clothing. Respirator must be worn if exposed to dust.

**Recommended Filter Type** P2

Handle in accordance with good industrial hygiene and safety practice. Remove and **Hygiene Measures** 

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

8.0-10.3 (@ 5%) Decomposes Melting/freezing point

Boiling point/boiling range Not applicable (solid) 192 °C (Closed cup) Flash point **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) Not relevant (Solid) Relative density

Solubility

150 g/L (@25 °C) Water solubility Solubility in Other Solvents Ethanol (75 g/l @ 20 °C)

Partition coefficient (n-octanol/water)  $\log Pow = -1.3$ **Autoignition temperature** Not applicable **Decomposition temperature** 120 - 165 °C Viscosity, dynamic Not applicable

**Explosive properties** Not explosive

Oxidising properties Not oxidizing

9.2 Other information

 Density
 1430 kg/m³

 Bulk Density
 540-680 kg/m³

## **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

Heat, flames and sparks.

## 10.5 Incompatible materials

Moisture, Acids.

#### 10.6 Hazardous decomposition products

Chlorine.

## **SECTION 11: TOXICOLOGICAL INFORMATION**

#### 11.1 Information on toxicological effects

**Acute Toxicity** 

IngestionHarmful if swallowed.Skin ContactNo known effect.InhalationNo known effect.

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium	1000 mg/kg (Rat, Mouse)	>2000 ( rabbit, 4h, 8% solution )	> 0.275 mg/L ( max. attained
p-toluenesulfonchloramide,			concentration, Rat, 4h)
trihvdrate			·

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 Ames test: Not mutagenic. Micronucleus test: Not mutagenic.

**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 Micro-organisms	Toxicity to daphnia and other aquatic invertebrates
Sodium	EC50: 80 mg/L 96h	LC50: 31 mg/l 96h Poecilia		EC50: 4.5 mg/l 48h
p-toluenesulfonchloramide,	Chlorella pirenoidosa (as	reticulata		Daphnia magna
trihydrate	PTSA)			EC50: >23 mg/l (flow
	, i			through conditions)
				NOEC: 1.1 mg/l, LOEC 3.5
				mg/l 21 days (chronic
				study)

## 12.2 Persistence and degradability

Readily biodegradable.

## 12.3 Bioaccumulative potential

Bioaccumulation is unlikely.

Chemical name	Log Pow	Bioconcentration factor (BCF)
Sodium p-toluenesulfonchloramide, trihydrate	-1.3	

#### 12.4 Mobility in soil

No information available.

## 12.5 Results of PBT and vPvB assessment

This substance is not considered to be persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

## 12.6 Other adverse effects

No information available.

## **SECTION 13: DISPOSAL CONSIDERATIONS**

#### 13.1 Waste treatment methods

Waste from residues / unused products

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, IATA/ICAO.

## 14.1 UN number

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

axcentive

Additional information: Classification code C8, Tunnel restriction code E,IMO/MDG EMS F-A, S-B, ADR Hazard Id (Kemmler Number): 80.

## 14.4 Packing group

Packing Group III

#### 14.5 Environmental hazards

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

Marine pollutant: No.

#### 14.6 Special precautions for user

Not applicable.

## 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

Not relevant.

## **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 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

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

Xn - Harmful, C - Corrosive

R22 - Harmful if swallowed

R31 - Contact with acids liberates toxic gas

R34 - Causes burns

R42 - May cause sensitisation by inhalation

#### **Revision note**

Indication of the changes made to the previous version of the SDS: Details of the supplier of the safety data sheet (EN), Remove 67/548/EEC and 1999/45/EC ( Section 2, 3 ).

## Abbreviations and acronyms

ES: Exposure Scenario

EC: European Commission

REACH: Registration, Evaluation, Authorisation and Restriction of Chemical substances

LD50: Medial lethal dose

STOT: Specific Target Organ Toxicity

PBT: Persistent, Bioaccumulative, Toxic

vPvB: very Persistent and very Bioaccumulating

ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement concernant le transport international ferroviaire des marchandises dangereuses (Regulations for the International Transport of Dangerous Goods by Rail)

ADN: Accord européen relatif au transport international des marchandises Dangereuses par voies de Navigation intérieures

(European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)

IMDG: International Maritime Dangerous Goods Code

ICAO: International Civil Aviation Organization

#### SDS No.

AX00001 / AXCE

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 and Regulation (EC) No. 2015/830

#### **Disclaimer**

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