

According to Regulation (EC) No. 1907/2006

HALAMID® CHLORAMINE T

1. IDENTIFICATION OF THE SUBSTANCE OR PREPARATION AND THE COMPANY/UNDERTAKING

Product label name

tosylchloramide sodium

Supplier

Axcentive SARL

Chemin de Champouse

Quartier Violesi

13320 Bouc Bel Air

France

Tel.: +33 442 694 090 Fax: +33 442 694 099

E-mail address of person responsible for safety data sheet

info@axcentive.com

Emergency telephone

T +31570679211

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AkzoNobel Chemicals-Deventer-NL

Relevant identified uses of the substance or mixture

biocide

Date of last issue / Revision number

2010/11/29 / 1.00

2. HAZARDS IDENTIFICATION

Xn, R22: Harmful if swallowed,

R31: Contact with acids liberates toxic gas.

C, R34: Causes burns,

R42: May cause sensitization by inhalation.

GHS classification	
Description	Applicable
Acute toxicity (oral)	category 4
Respiratory sensitization	category 1
Skin corrosion/ irritation	category 1B

Pictogram(s) (GHS)







Signal word/Hazard statement(s) GHS		
Code	Description	
AGHSDANG	Signal word: DANGER	
H26EUH031	Contact with acids liberates toxic gas	
H302.	Harmful if swallowed.	
H314.	Causes severe skin burns and eye damage.	



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H334. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Precautionary statement(s) (GHS)			
Code	Description		
P260.	Do not breathe dust/fume/gas/mist/vapours/spray.		
P264a.	Wash hands and contaminated skin thoroughly after handling.		
P270.	Do not eat, drink or smoke when using this product.		
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.		
P304+P340.	IF INHALED: Remove victim 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.		
P309+P311.	IF exposed or if you feel unwell: Call a POISON CENTER or physician.		
P321a.	Specific treatment (see instruction on this label).		
P405.	Store locked up.		
P501a.	Dispose of contents and container according to local regulation.		

3. COMPOSITION/INFORMATION ON INGREDIENTS

This product is to be considered as a substance in conformance to EC directives

Information on hazardous ingredients

Chemical description tosylchloramide sodium

Composition / information on ingredients

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Number	% w/w	CAS-number	Chemical name
1	100	007080-50-4	Sodium p-toluenesulfonchloramide, trihydrate

Number	REACH Registratio n number	EC-number	Classification according to 1272/2008 as amended			Classification according to 67/548/EEC as amended
1		204-854-7	Acute toxicity (oral)	category 4	H26EUH031 H302 H314 H334	Xn C R22 R31 R34 R42
			Respiratory sensitization	category 1		
			Skin corrosion/irritation	category 1B		

Other information

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

4. FIRST AID MEASURES

Most important symptoms and effects

Causes injury to the cornea and eyelids. Causes burns.

May cause sensitization by inhalation and skin contact.

Description of first aid measures

General

Obtain medical attention immediately (show this Safety Data Sheet).

Inhalation

Move to fresh air, rest, half upright position, loosen clothing. Oxygen or artificial respiration if there is difficulty in breathing. Seek medical advice after significant exposure.



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Skin

Remove all contaminated clothing immediately. Wash off with plenty of soap and water. Always seek medical advice. Launder clothes before reuse.

Eye

Rinse immediately and as long as possible with plenty of water. Eyelids should be held away from the eyeball to ensure thorough rinsing. Always seek medical advice.

Ingestion

Only when conscious, rinse mouth, give plenty of water to drink. DO NOT induce vomiting. Seek medical advice.

Indication of any immediate medical attention and special treatment needed

Symptomatic treatment is advised.

5. FIRE-FIGHTING MEASURES

Extinguishing media

foam, powder, waterspray, Carbon dioxide.

Unsuitable extinguishing media

none known.

Hazardous decomposition / combustion products

Emits toxic fumes under fire conditions (hydrochloric acid (HCl), nitrous gases (NOx), sulphur dioxide (SO2)).

Protective equipment

Wear self contained breathing apparatus.

Fire and explosion hazard

In case of fire and/or explosion do not breathe fumes.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Do not breathe dust. Avoid contact with skin and eyes. For personal protection see Section 8.

Environmental precautions

Do not allow to escape into sewage system or water courses.

Methods and material for containment and cleaning up

Collect as much as possible in a clean container for (preferable) reuse or disposal. Flush remainder with water.

7. HANDLING AND STORAGE

Precautions for safe handling

The usual precautions for handling chemicals should be observed.

Fire and explosion prevention

No specific recommendations.

Conditions for safe storage

Keep in a cool place. Keep container tightly closed and dry.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Avoid inhalation of dusts.

Personal protection

Respiratory

In case of dust formation use dust mask (respirator with filter P2)

Hand

protective gloves.

Eye

safety goggles.

Skin and body

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protective clothing.



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Other information

Remove contaminated clothing. Launder clothes before reuse.

In this country no exposure limit has been established

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

crystalline powder

Colour

white

Odour

weak chlorine

Boiling point/range

not applicable

Melting point/freezing point

Melting point Decomposes

Flash point

192 ℃ (Pensky-Martens, closed cup)

Flammability

not determined

Explosive properties

not determined

Oxidising properties

not determined

Vapour pressure

not determined

Density

1430 kg/m³

Bulk density

540-680 kg/m³

Solubility in water

150 g/l (25 ℃)

Solubility in other solvents

ethanol (95 %): 75 g/l (20 ℃)

pH value

8.0-10.3 (5 % solution)

Partition coefficient n-octanol/water

not determined

Relative vapour density (air=1)

not relevant

Viscosity

not applicable

Autoignition temperature

not determined

Upper/lower flammability or explosive limits

not determined

10. STABILITY AND REACTIVITY

Conditions to avoid

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Unstable in contact with water vapour.

Contact with acids liberates toxic gas.

Chemical stability

Stable under recommended storage and handling conditions (see section 7).

Incompatible materials

Water vapour, acids.

Hazardous decomposition products

chlorine

11. TOXICOLOGICAL INFORMATION

Sodium p-toluenesulfonchloramide, trihydrate

Acute toxicity

Oral LD50

rat, mouse: approx. 1000 mg/kg (Akzo Nobel E-file)

Inhalation LC50

rat: > 0.275 mg/l (4 hours) (max. attainable concentration) (Akzo Nobel E-file)

Irritation

Skin

Moistened powder: Corrosive (Akzo Nobel E-file) 8% solution: Non-irritating (Akzo Nobel E-file)

Eye

Moistened powder: Severely irritating (Akzo Nobel E-file) 8% solution: Moderately irritating (Akzo Nobel E-file) 0.5% solution: Non-irritating (Akzo Nobel E-file)

Sensitization

May cause sensitization by inhalation and skin contact (Akzo Nobel E-file)

Genotoxicity

Ames test: Not mutagenic (Akzo Nobel E-file) Micronucleus test: Not mutagenic (Akzo Nobel E-file)

Other toxicological information

subchronic (90 days) oral toxicity, rat: No Observed Effect Level 15 mg/kg/day (Akzo Nobel E-file)

12. ECOLOGICAL INFORMATION

Sodium p-toluenesulfonchloramide, trihydrate

Ecotoxicity

fish

96h-LC50 (Poecilia reticulata): 31 mg/l (Akzo Nobel E-file)

daphnia

48h-EC50: 4.5 mg/l (Akzo Nobel E-file)

Fate

Degradation Biotic

Readily biodegradable (At low concentrations).

p-Toluenesulfonamide (hydrolysis product): Readily biodegradable

Other information

Daphnia magna reproduction test: No Observed Effect Concentration (NOEC) > 1 mg/l (Akzo Nobel E-file)

13. DISPOSAL CONSIDERATIONS

Product

Please refer to your specific industry in the European Waste Catalogue. According to local regulations.

Contaminated packaging

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According to local regulations.

14. TRANSPORT INFORMATION



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Land transport

Transport hazard class

8

Classification Code

C8

RID class

8

Packing group

Ш

Hazard Identification No.

80

Substance Identification No.

3263

UN number

3263

Proper Shipping Name

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

Other information

ADR Tunnel code E

Sea transport (IMO / IMDG-code)

Transport hazard class

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Packing group

Ш

UN number

3263

EMS

F-A, S-B

Marine pollutant

no

Proper Shipping Name

Corrosive solid, basic, organic, n.o.s. (Sodium p-toluenesulfonchloramide)

Air transport (ICAO-TI / IATA-DGR)

UN number

3263

Transport hazard class

8

Packing group

Ш

Proper Shipping Name

Corrosive solid, basic, organic, n.o.s. (Sodium p-toluenesulfonchloramide)

15. REGULATORY INFORMATION

Product label name

tosylchloramide sodium

Product code 410301clp

Labelling according to EC directives



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EC-number See section 3	
Classification based on Annex-VI	

R(isk) phrase(s) (EU classification)		
Code Description		
R22	Harmful if swallowed	
R31	Contact with acids liberates toxic gas	
R34	Causes burns	
R42	May cause sensitization by inhalation	

S(afety) phrase(s) (EU classification)		
Code	Description	
S07	Keep container tightly closed	
S22	Do not breathe dust	
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice	
S36/37/39	Wear suitable protective clothing, gloves and eye/face protection	
S45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)	

Classification according to 67/548/EC as ammended



CORROSIVE (C)

German Water Hazard Class (WGK)

2 (VwVwS Anhang 2, Kenn-Nr. 640)

16. OTHER INFORMATION

Product code 410301clp

Relevant hazard statements		
Chemical name	Hazard statement(s) (GHS-classifcat ion)	
Sodium p-toluenesulfonchloramide, trihydrate	H26EUH031	Contact with acids liberates toxic gas



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

R-phrase information		
Chemical name	R(isk) phrase(s) (EU classification)	
Sodium p-toluenesulfonchloramide, trihydrate	R22	Harmful if swallowed
	R31	Contact with acids liberates toxic gas
	R34	Causes burns
	R42	May cause sensitization by inhalation

History

Other information

Halamid (Chloramine T) is the tri-hydrous form of the generally listed anhydrate (CAS No. 127-65-1). Conform EINECS rules the trihydrous form is included with the listing of the CAS Number of the anhydrous form. The tri-hydrous form is the only commercially available and chemically stable form of p-toluenesulfonchloramide.

Date of printing/ pdf file generated

2011/01/04

Revision

1.00

Composed by

Dr. B. Weuste P. van Lenthe

Product code 410301clp

Changes were made in section

Status

This information only concerns the above mentioned product and does not need to be valid if used with other product(s) or in any process. The information is to our best present knowledge correct and complete and is given in good faith but without warranty. It remains the user's own responsibility to make sure that the information is appropriate and complete for his special use of this product.