

SAFETY DATA SHEET
According to Regulation (EC) No. 1907/2006

HALAMID® CHLORAMINE T

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

Product label name Sodium p-toluenesulfonchloramide	
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 + 31 570679211 (Fax. + 31 570679801) Akzo Nobel Chemicals-Deventer-NL	
Intended use biocide	
Date of last issue / Revision # 2007-05-31 / 9.07	

2. HAZARDS IDENTIFICATION

Harmful if swallowed. Contact with acids liberates toxic gas. Causes burns. May cause sensitization by inhalation.

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

	Annex-1 number	EC-number	Symbol(s)	Risk-phrase(s)
1	616-010-00-9	204-854-7	C	R22 R31 R34 R42

Other information Also listed as the anhydrous form (CAS No. 127-65-1) which is not commercially available
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4. FIRST AID MEASURES

Symptoms and effects Causes injury to the cornea and eyelids. Causes burns. May cause sensitization by inhalation and skin contact.
First aid
General Obtain medical attention immediately (show this Safety Data Sheet).

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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.

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.

Advice to physician

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 (NO_x), 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 for cleaning up

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

7. HANDLING AND STORAGE

Handling

The usual precautions for handling chemicals should be observed.

Fire and explosion prevention

No specific recommendations.

Storage requirements

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls

Avoid inhalation of dusts.

Personal protection

Respiratory

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

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Hand	protective gloves.
Eye	safety goggles.
Skin and body	protective clothing.
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/range	Decomposes
Flash point	192 °C (Pensky-Martens, closed cup)
Flammability	not determined
Explosive properties	not determined
Oxidising properties	not determined
Vapour pressure	not determined
Density	1430 kg/m ³
Bulk density	540-680 kg/m ³
Solubility in water	150 g/l (25 °C)
Solubility in other solvents	ethanol (95 %): 75 g/l (20 °C)
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

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Autoignition temperature not determined
Explosion limits not determined

10. STABILITY AND REACTIVITY

Conditions to avoid
Unstable in contact with water vapour. Contact with acids liberates toxic gas.
Stability Stable under recommended storage and handling conditions (see section 7).
Incompatibles Water vapour, acids.
Decomposition 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	

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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

According to local regulations.

14. TRANSPORT INFORMATION

Land transport

Class

8

Classification Code

C8

RID class

8

Packing group

III

Hazard Identification No.

80

Substance Identification No.

3263

TREM-Card or ERG number

CEFIC TEC(R)- 80GC8-II+III

UN number

3263

Proper Shipping Name

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

Sea transport (IMDG-code/ IMO)

Class

8

Packing group

III

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)

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UN number 3263
Class 8
Packing group III
Proper Shipping Name Corrosive solid, basic, organic, n.o.s. (Sodium p-toluenesulfonchloramide)

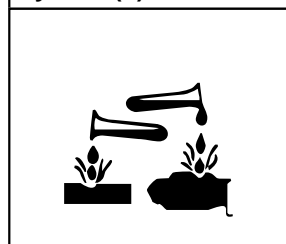
15. REGULATORY INFORMATION

Product label name Sodium p-toluenesulfonchloramide
Labelling according to EC directives
EC-number See section 3
Classification based on Annex-1 (24th adaptation)

R(isk) phrase(s)	
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)	
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)

Symbol(s)



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CORROSIVE

German Water Hazard Class (WGK)
2 (VwVwS Anhang 2, Kenn-Nr. 640)

16. OTHER INFORMATION

R-pharse information		
Chemical name	R(isk) phrase(s)	
Sodium p-toluenesulfonchloramide, trihydrate	R22 R31 R34 R42	Harmful if swallowed Contact with acids liberates toxic gas Causes burns 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	2007-08-16
Revision	9.07
Composed by	Dr. B. Weuste P. van Lenthe
Changes were made in section	1, 2, 3
<small>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.</small>	