

HALAMID® CHLORAMINE T

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

Product label name

Sodium p-toluenesulfonchloramide

Supplier

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Emergency telephone

+ 31 570679211 (Fax. + 31 570679801) Akzo Nobel Chemicals-Deventer-NL

Intended use

biocide

Date of last issue / Revision # 2006/12/13 / 9.06

2. 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	С	R22 R31 R34 R42
Other information				

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

3. HAZARDS IDENTIFICATION

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

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).

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.

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 (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 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.

Exposure limits

No exposure limit has been established

Personal protection

Respiratory

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

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SAFETY DATA SHEET According to EC-directive 2001/58/EC

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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
. PHYSICAL AND CHEMICAL PROPERTIES
Appearance and Odour
white crystalline powder
odour: weak chlorine
Boiling point/range not applicable

Melting point/range Decomposes

Flash point

192 ${\rm C}$ (Pensky-Martens, closed cup)

Flammability not determined

Explosive properties not determined

Oxidizing 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

Deletive were ever der

Relative vapour density (air=1) not relevant

Viscosity

not applicable

Autoignition temperature

not determined



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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

Sodiu	Sodium p-toluenesulfonchloramide, trihydrate		
Ecoto	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
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

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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 2

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)	





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

16. OTHER INFORMATION

R-phrase 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.
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Revision 9.06
Composed by Dr. B. Weuste P. van Lenthe
Changes were made in section 13, 15 2
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.