

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Chemical name	Sodium p-toluenesulfonchloramide, trihydrate
Synonyms	Tosylchloramide sodium, Chloramine-T.
Formula	C ₇ H ₇ ClNNaO ₂ S.3H ₂ O
Molecular mass	281,7
CAS-No.	7080-50-4
EC-No.	204-854-7
Annex VI-No.	616-010-00-9
Registration number	REACH exemption. Registered by the Biocidal Products Act
Approval number	8241 N

1.2 Relevant identified uses and uses advised against

Relevant identified uses	Disinfectant and sterilant.
Uses advised against	Simultaneous use with alkaline cleaning agents (ineffective in an alkaline medium).

1.3 Details of the manufacturer or supplier

Supplier	VEIP bv
Address	Molenvliet 1 3960 BB Wijk bij Duurstede The Netherlands
Telephone number	+31 343 57 22 44
Fax	+31 343 57 71 04
E-mail address	info@veip.nl

1.4 Emergency telephone number

Emergency	+31 343 57 22 44	
Medical information		
The Netherlands	+31 (0)30-274 88 88	NVIC Utrecht, for emergency services only
United Kingdom	844 892 0111	National Poisons Information Service

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

According to Regulation (EC) No. 1272/2008

Hazard classes	Classification
Acute toxicity	Acute Tox. 4, H302
Skin corrosion/irritation	Skin Corr. 1B, H314
Respiratory sensitization	Resp. Sens. 1, H334

For full text of Hazard statements: see subsection 2.2.

2.2 Label elements

2.2.1 Hazard pictograms



2.2.2 Signal word DANGER

2.2.3 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.

2.2.4 Precautionary statements

P260	Do not breathe dust/spray.
P280	Wear protective gloves / protective clothing / eyeprotection / face protection.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P342 + P311	If experiencing respiratory symptoms: Call a POISON CENTER / doctor.
P303 +P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P301 + P330 + P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P310	Immediately call a POISON CENTER / doctor / physician.

2.3 Other hazards

The product does not meet the criteria for PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.1 Substances

Main constituent	Identity		Percentage
Sodium p-toluenesulfonchloramide, trihydrate	CAS-No.	70-80-5	100
	EC-No.	204-854-7	

Classified impurities or stabilizers

None.

3.2 Mixtures

Not applicable.

None.

SECTION 4: First aid measures

4.1 Description of first aid measures

4.1.1 Inhalation

Fresh air, rest. Get medical advice / attention if you feel unwell.

4.1.2 Skin contact

Remove contaminated clothes, rinse skin with water or shower.

4.1.3 Eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do; continue rinsing. If eye irritation persists: call a doctor / physician.

4.1.4 Ingestion

Rinse mouth, drink plenty of water and immediately call a doctor / physician. Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

4.2.1 Acute symptoms and effects from exposure

Inhalation of high concentrations of dust may cause pneumonia.

It is possible that the symptoms of pneumonia occur after several hours or days. Therefore, medical observation is required.

4.2.2 Delayed symptoms and effects from exposure

May cause a disease of the mucous membranes of the upper respiratory tract to people who are sensitive to chlorine.

Intensive contact with the skin may cause skin disease (eczema).

SECTION 5: Firefighting measures

5.1 Extinguishing media

5.1.1 Suitable extinguishing media

Powder, water spray.

5.1.2 Unsuitable extinguishing media

Carbon dioxide.

5.2 Special hazards arising from the substance or mixture

In case of fire the product emits toxic fumes including hydrogen chloride, nitrogen-, sulfur- and carbonoxides.

5.3 Advice for firefighters

5.3.1 Protective actions

In case of fire: keep containers cool by spraying with water.

5.3.2 Special protective equipment

Full protective suit, self-contained respiratory protective.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Protective clothing, gloves, boots. Respiratory protection.

6.2 Environmental precautions

Keep away from drains, surface water or soil.

6.3 Methods and material for containment and cleaning up

Scoop up spilled product and store in a drum. Wash away any residue with water.

6.4 Reference to other sections

See also sections 8 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Use only in well-ventilated areas.

Wear the prescribed personal protective equipment.

7.2 Conditions for safe storage, including any incompatibilities

7.2.1 Fire and explosion prevention

Keep container in a cool, dry place.

Store in a closed container.

Keep in a fire-resistant place separate from oxidising agents and acids.

7.2.2 Protection against ambient influences

Protect against contact with hot surfaces (steam pipelines) and direct sunlight.

Suitable materials for packaging: approved plastic.

7.3 Specific end use(s)

Please contact the supplier.

SECTION 8: Exposure controls / personal protection

8.1 Controleparameters

8.1.1 Exposure limit values

	mg/m ³	ppm	Indicative
TWA limit value 8 hours	not established		
TWA limit value 15 min.	not established		

DNEL / DMEL-values

No data available.

PNEC-values

No data available.

8.2 Exposure controls

8.2.1 Technical measures

Ventilation and local extraction.

8.2.2 Individual protective measures

Eye protection

Safety goggles or face protection (NEN-EN-166)

Skin protection

– Hands

Gloves nitril rubber 0.7 mm gloves

Breakthrough time > 8 hours (NEN-EN 374)

Gloves inear low-density polyethylene (LLDPE) 0.75 mm gloves

Breakthrough time > 8 hours (NEN-EN 374)

– Other measures

Protective clothing (NEN-EN 340).

Respiratory protection

Respirator filter mask type P2 (NEN-EN 143).

Thermal hazards

Not applicable.

8.2.3 Environmental exposure controls

Remove contaminated air from the local extractor and drain waste water in accordance with local environmental regulations.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

– form	Powder
– colour	White

Odour Chlorine-like

Odour threshold (mg/ m³) No data available.

pH (5% solution) 8 - 10

Melting point / freezing point (°C) 167 (decomposition)

Boiling point (°C) at 1013 hPa Not applicable.

Flash point (°C) 192

Explosive limits, g/m³ in lucht No data available.

Vapour pressure at 25 °C (hPa) 1.06 x 10⁻⁷

Relative density (water=1) 1.4

Solubility in water at 20 °C (g/l) 150

Partition coefficient (log K octanol/water) – 1.3

Auto-ignition temperature (°C) No data available.

Decomposition temperature (°C) 120 - 165; the substance changes at 60 °C in the anhydrous form.

Explosive properties No data available.

Oxidising properties A solution in water has oxidising properties.

9.2 Other safety information

Bulk density (kg/m³)	1430
Apparent density (kg/l)	0.54 - 0.68

SECTION 10: Stability and reactivity

10.1 Reactivity

A solution in water has oxidising properties.
No hazardous reaction if instructions for handling and storage are observed.

10.2 Chemical stability

The product is stable when stored at normal ambient temperature.
Decomposes slowly on exposure to moisture.
May violently decompose when heated above 120 °C.

10.3 Possibility of hazardous reactions

Reacts violently with strong oxidants and acids with the formation of toxic chlorine gas

10.4 Conditions to avoid

Storage temperatures >40 °C and moisture. Ignition sources (open flames, hot surfaces and sparks).
Contact with strong oxidizers may cause fire and explosions.

10.5 Incompatible materials

Strong oxidising and acids.

10.6 Hazardous decomposition products

Does not decompose if used and stored as directed.

SECTION 11 Toxicological information

11.1 Information on toxicological effects

a) Acute toxicity

– Oral	LD50 (rat)	935 mg/kg
– Dermal	LD50 (rabbit)	no data available.
– Inhalation	LC50 (rat, 4 hours)	> 0.275 mg/L (dust)

b) Skin corrosion/irritation

The substance is irritating to the skin.

c) Serious eye damage/irritation

The substance is corrosive to eyes.

d) Respiratory or skin sensitisation

Inhalation of liberated dust can cause allergy or asthma symptoms or breathing difficulties.

e) Germ cell mutagenicity

Genotoxicity in vivo: Micronucleus test: negative.

Genotoxicity in vitro: Ames-test negative

f) Carcinogenicity

No data available.

g) Reproductive toxicity

No data available.

h) Specific target organ toxicity – single exposure

Liberated dust may irritate the respiratory tract.

i) Specific target organ toxicity – repeated exposure

No data available.

j) Aspiration hazard

No data available.

11.2 Likely routes of exposure

The substance can be absorbed into the body by inhalation and after ingestion.

11.3 Delayed and immediate effects as well as chronic effects from short and long-term exposure

Absorption in the body may cause formation of methemoglobin. In certain concentration it causes cyanosis.

SECTION 12: Ecological information

12.1 Toxicity

– Fish	LC50, 96 hours	31 mg/L
– Crustaceans	LC50 Daphnia, 48 hours	4.5 mg/L
– Algae	IC50, 72 hours	5 mg/L

12.2 Persistence and degradability

Biodegradation 28 days: 90%
The product is readily biodegradable.

12.3 Bioaccumulation potential

Bioconcentration factor (BCF): 1,125
Log K octanol / water: – 1,3
No significant potential for bioaccumulation (BCF < 500 and log K octanol/water < 4).

12.4 Mobility in soil

Koc-waarde: 2244
The product is little mobile in the soil.

12.5 Results of PBT and vPvB assessment

The product contains no substances to be considered as PBT or vPvB.

12.6 Other adverse effects

Hazardous to water.
German hazard codes for water (WGK): 2

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product disposal

Dispose of to a registered incineration plant for solids, or as hazardous waste in accordance with local regulations.

Do not dispose of the product in residual household waste.

Prevent the waste product reaching sewers.

Packaging disposal

Dispose of packagings with remainders as hazardous waste.

Cleaned packagings may be reused.

Waste treatment-relevant information

European list of waste (EURAL): 07 04 13.

SECTION 14: TRANSPORT INFORMATION

14.1 UN-number	3263
14.2 Proper shipping name	CORROSIVE SOLID, BASIC, ORGANIC, N.O.S. (sodium p-toluenesulfonchloramide)
14.3 Transport hazard class	8

14.4	Packinggroup	III
14.5	Environmental hazards	
	Marine pollutant	No
14.6	Specials precautions for user	
	Risk label	8
	Tunnel category	(E)
	Hazard Identification Number	80
	Transport category	3
	Limited quantity (LQ)	5 kg (inner package) / 30 kg (package) By IATA is only a ceiling for the outer package viz a maximum of 25 kg for a package when transported by passenger / cargo aircraft and 100 kg when transported by cargo aircraft.
	Excepted quantity	E1
14.7	Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.

SECTION 15: Regulatory information

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

The applicable EU-/national regulations have to be observed.

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out for sodium p-toluenesulfonchloramide, trihydrate.

SECTION 16: Other information

16.1 Information on revision

Previous version 5.0

Reason for changes Adaptation of the subsection 2.2, 8.2 and 10.2

16.2 Abbreviations and acronyms

CAS	Chemical Abstracts Service (Division of the American Chemical Society)
CLP	Classification, Labelling and Packaging
EC50	Effect Concentration, 50 percent (concentration at which 50 per cent of animals show a particular effect)
EC	European Community
IC50	Inhibitory Concentration, 50 percent (concentration at which 50 per cent of algae show growth inhibition)
LC50	Lethal Concentration, 50 percent (concentration at which 50 per cent of animals die)
LD50	Lethal Dose, 50 percent (dose at which 50 per cent of animals die)
PBT	Persistent, Bioaccumulative and Toxic
ppm	Parts per million
TWA	Time Weighted Average
vPvB	very Persistent and very Bioaccumulative

16.3 Literature references and sources for data

CGTB-data base and external Safety Data Sheets.

16.4 Full text of Hazard statements which are not written out in full under Sections 2 to 15

None.

16.5 Training recommendations

Ensure that there is proper information, instruction and training available for users.

This data sheet has been compiled by KWA. Despite the careful attention paid to the setting up of the text, KWA cannot be held responsible for any error appearing in the text and resulting in whatever damage it may cause.

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