

# **Safety Data Sheet**

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According to Regulation (EC) no. 1907/2006 as amended by Regulation (EU) 2015/830

# 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<sub>7</sub>H<sub>7</sub>ClNNaO<sub>2</sub>S.3H<sub>2</sub>O

Molecular mass281,7CAS-No.7080-50-4EC-No.204-854-7Annex 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

SupplierVEIP bvAddressMolenvliet 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. 1272/2008Hazard classesClassificationAcute toxicityAcute Tox. 4, H302Skin corrosion/irritationSkin Corr. 1B, H314Respiratory sensitizationResp. 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.

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#### 2.2.4 Precautionary statements

P260 Do not breathe dust/spray.

P280 Wear protective gloves / protective clothing / eyeprotection / face protection.

P301 + P330 + IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P331

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305 + P351 + IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

P338 present and easy to do. Continue rinsing.

P312 Call a POISON CENTER / doctor / physician if you feel unwell.

#### 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 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.

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#### 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 fire-fighters

#### 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<sup>3</sup> ppm Indicative

TWA limit value 8 hours not determined TWA limit value 15 min. not determined

# **DNEL / DMEL-values**

No data available.

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**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

In case of release of dust: safety goggles.

#### Skin protection

- Hands

Gloves nitril rubber 0.7 mm gloves

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

Breakthrough time > 8 hours

Breakthrough time > 8 hours

Other measures
 Protective clothing.

#### **Respiratory protection**

Upon release of dust: filter respirator.

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
 colour
 Odour
 Odour threshold (mg/ m³)
 Powder
 White
 Chlorine-like
 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/m<sup>3</sup> in lucht No data available. Vapour pressure at 25 °C (hPa)  $1.06 \times 10^{-7}$ 

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.

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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 water (moisture).

May violently decompose when heated and at temperatures above 130 °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.

Chlorine-containing gases can be released upon decomposition through contact with water vapour.

# **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 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.

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# **SECTION 12:** Ecological information

#### 12.1 Toxiciteit

Fish
 Crustaceans
 Algae
 LC50, 96 hours
 LC50 Daphnia, 48 hours
 4.5 mg/L
 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 uncleaned empty packagings 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

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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.

# **SECTION15:** 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 4.8

Reason for changes Adaptation of the telephone number Medical information in the United Kingdom

#### 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

nhibition)

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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