

Sodium p-toluenesulfonchloramide trihydrate

Hayashi Pure Chemical Ind.,Ltd.

Date of issue: 7/10/2009 Revision date: 8/6/2020 SDS code: E3-05 Version: 05.1

Safety Data Sheet

1. Chemical product and company identification

Product name : Sodium p-toluenesulfonchloramide trihydrate

SDS code : E3-05

Company/undertaking

identification

HAYASHI PURE CHEMICAL IND.,LTD.

Address: 3-2-12 Uchihiranomachi, Chuo-ku, Osaka, Osaka, Japan

Responsible department : Planning Group, Reagent & Chemical Product Department

Telephone: 06-6910-7305

E-mail: shiyaku_kikaku@hpc-j.co.jp URL: https://www.hpc-j.co.jp/

Emergency number : 06-6910-7305

2. Hazards identification

GHS classification

Health hazards

Physical hazards Desensitized eplosives classification not possible

Explosives classification not possible

Flammable gases No classification

Aerosol classification not possible

Oxidizing gases No classification
Gases under pressure No classification
Flammable liquids No classification

Flammable solids classification not possible Self-reactive substances and classification not possible

mixtures

Pyrophoric liquids No classification

Pyrophoric solids classification not possible Self-heating substances and classification not possible

mixtures

Substances and mixtures which in classification not possible

contact with water emit flammable

gases

Oxidizing liquids No classification

Oxidizing solids

Organic peroxides

Corrosive to metals

Acute toxicity (oral)

Acute toxicity (dermal)

Classification not possible classification not possible classification not possible classification not possible

Acute toxicity (dermal) classification not possible Acute toxicity (inhalation:gas) classification not possible

Acute toxicity (inhalation:vapors) No classification

Acute toxicity (inhalation:dust/mist)

Skin corrosion/irritation

Serious eye damage/eye irritation

Respiratory sensitization

Skin sensitization

Germ cell mutagenicity

Classification not possible classification not possible

classification not possible

classification not possible

Specific target organ toxicity (single

exposure)

Specific target organ toxicity classification not possible

(repeated exposure)

Reproductive toxicity

Aspiration hazard classification not possible

Sodium p-toluenesulfonchloramide trihydrate

Revision date: 8/6/2020 SDS code: E3-05 Version: 05.1

Environmental hazards

Hazardous to the aquatic

environment, short-term (acute)

Hazardous to the aquatic

environment, long-term (chronic)

Hazardous to the ozone layer

classification not possible

classification not possible

classification not possible

3. Composition/information on ingredients

Distinction of substance or mixture Substance

Synonyms Chloramine T, Tochlorine, Clorina, Chlorazene, Chloraseptine,

Gyneclorina, Gansil, Chloramine T(R) trihydrate

Mana a	Concentration or Concentration range	Formula	Kanpo number		010 711
Name			CSCL no	ISHL no	CAS RN
Sodium p- toluenesulfonchloramide trihydrate	≧98.0%、≦100%	C7H7CINaNO2S· 3H2O	(3)-2178	Existing Chemical Substance	7080-50-4

The above concentration or concentration range are not product specification.

All percentages listed in the above concentration or concentration range are mass%, unless otherwise specified.

4. First aid measures

First aid measures

First-aid measures after inhalation Remove person to fresh air and keep comfortable for breathing.

Rinse mouth.

Get immediate medical advice/attention.

First-aid measures after skin

contact

Remove/Take off immediately all contaminated clothing.

Gently wash with plenty of soap and water. Get immediate medical advice/attention.

First-aid measures after eye

contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

Get immediate medical advice/attention.

First-aid measures after ingestion

Get immediate medical advice/attention.

5. Fire fighting measures

Suitable extinguishing media

Water spray, Alcohol-resistant foam, Dry powder, Carbon dioxide, Sand.

Unsuitable extinguishing media

Do not use a heavy water stream.

Explosion hazard

May induce explosion of containers by heating.

Hazardous decomposition products in case of fire

In case of fire, product may produce irritative or toxic fumes/gases.

Firefighting instructions

If ignited, for the initial fire-fighting, cut off combustion sources, extinguish

fire at a stroke using appropriate fire-extinguishers.

In the case of peripheral fire, quickly remove movable containers to safe

places.

If unable to be moved containers, sprinkle water to containers and

surrounding equipment, etc. to cool.

Avoid (reject) fire-fighting water to enter environment.

Even after extinguishing fire, thoroughly cool containers by using plenty of

water.

Protection during firefighting

Wear appropriate fire-resistant clothing including self contained-

compressed air breathing apparatus.

6. Accidental release measures

Personal Precautions, Protective Equipment and Emergency Procedures

General measures Wear appropriate personal protective devices to prevent inhalation and

contact with eye, skin, and clothing, and never attempt to work on the lee.

Environmental precautions

Environmental precautions Avoid release to the environment.

Prevent entry to sewers and public waters.

Revision date: 8/6/2020 SDS code: E3-05 Version: 05.1

Methods and Equipment for Containment and Cleaning up

Methods for cleaning up : Take care not to generate dust, sweep it up as much as possible, collect it

in an empty container that can be sealed, and move it to a safe place.

Wash out the spilled area with large amounts of water.

7. Handling and storage

Handling

Technical measures : Work with appropriate personal protective equipment to prevent inhalation

or contact to eyes, skin, and clothing.

Handle with care to prevent leakage, overflowing, or scattering, minimize

generation of mist or vapor, and thoroughly ventilate.

Precautions for safe handling : Do not eat, drink or smoke when using this product.

Thoroughly wash your hands and gargle after handling.

Ensure good ventilation of the work station.

Do not contact, breathe or swallow.

Prevents handling of incompatible

substances or mixtures

Avoid prolonged or repeated exposure.

Storage

Storage conditions : Store in a well-ventilated place, away from direct sunlight. Keep container

tightly closed and keep away from fire and heat sources.

Material used in

packaging/containers

Light shielding airtight container.

Technical measures : Comply with applicable regulations.

Storage temperature : Cool and dark place

8. Exposure controls / Personal protection equipment

Appropriate engineering controls : Cover up tightly the generation source at the handling place or install local

exhaust equipment or overall ventilation equipment. Install safety showers and eye-fountains near a handling place. Clearly indicate the location.

Protective equipment

Respiratory protection : Dustproof mask
Hand protection : Protective gloves

Eye protection : Protective glasses (general glasses, glasses with side-shields, goggles)

Skin and body protection : Protective clothing, Protective boots, Protective apron

9. Physical and chemical properties

Physical state : Solid

Appearance : Crystalline powder Color : white \sim slightly yellow Odor : Slightly irritating odor pH : $9.0-11.0~(50g/L, 25^{\circ}C)$

135 - 139 °C Melting point Freezing point No data available Boiling point No data available No data available Flash point Auto-ignition temperature No data available Decomposition temperature No data available Flammability (solid, gas) No data available Vapor pressure No data available Relative density No data available

Density : 1.4 g/cm³

Relative gas density : No data available

Solubility : Soluble in water. Soluble in ethanol. Insoluble in diethyl ether.

Partition coefficient n-

octanol/water (Log Pow)

No data available

Revision date: 8/6/2020 SDS code: E3-05 Version: 05.1

Explosive limits (vol %) : No data available Viscosity, kinematic : No data available Particle characteristics : No data available

10. Stability and reactivity

Reactivity : No data available

Chemical stability : Decomposes gradually due to air.

Possibility of hazardous reactions : Reacts with strong oxidizing agents. When heated, it decomposed to

produce nitrogen oxides, sulfur oxides, chlorine, and hydrogen chloride.

Conditions to avoid : Sunlight, heat. Contact with strong oxidizing agents.

Incompatible materials : Strong oxidizing agents

Hazardous decomposition : Nitrogen oxides, Sulfur oxides, Chlorine, Hydrogen chloride

products

11. Toxicological information

The information in this section is based on the "GHS Classification Results" by NITE.

Sodium p-toluenesulfonchloramide trihydrate		
Acute toxicity (oral)	No data available	
Acute toxicity (dermal)	No data available	
Acute toxicity (gas)	No data available	
Acute toxicity (vapour)	No data available	
Acute toxicity (inhalation:dust/mist)	No data available	
Skin corrosion/irritation	No data available	
Serious eye damage/irritation	No data available	
Respiratory sensitization	No data available	
Skin sensitization	No data available	
Germ cell mutagenicity	No data available	
Carcinogenicity	No data available	
Reproductive toxicity	No data available	
STOT-single exposure	No data available	
STOT-repeated exposure	No data available	
Aspiration hazard	No data available	

12. Ecological information

The information in this section is based on the "GHS Classification Results" by NITE.

Sodium p-toluenesulfonchloramide trihydrate		
Hazardous to Aquatic Environment - Acute Hazard	No data available	
Hazardous to Aquatic Environment - Chronic Hazard	No data available	
Persistence and degradability	No data available	
Bioaccumulative potential	No data available	
Mobility in soil	No data available	
Hazardous to the ozone layer	No data available	

13. Disposal considerations

Ecology - waste materials : With the detail information of the waste, subcontract its disposal to a

waste disposer authorized by a Prefectural Governor.

Contaminated container and

packaging

: Empty the packaging completely prior to disposal.

Empty containers should be taken for recycle, recovery or waste in

accordance with local regulation.

Revision date: 8/6/2020

SDS code: E3-05

14. Transport information

International Regulations

Transport by sea(IMDG)

UN-No. (IMDG) 1759

Proper Shipping Name (IMDG) CORROSIVE SOLID, N.O.S.

Packing group (IMDG) Ш Transport hazard class(es) (IMDG) 8 Hazard labels (IMDG) 8 Class (IMDG) 8

Special provision (IMDG) 223, 274 Packing instructions (IMDG) P002, LP02 IBC packing instructions (IMDG) IBC08 IBC special provisions (IMDG) В3 Tank instructions (IMDG) T1 Tank special provisions (IMDG) **TP33** Stowage category (IMDG) Α

Properties and observations (IMDG) Causes burns to skin, eyes and mucous membranes.

MFAG-No

Air transport(IATA)

UN-No. (IATA) 1759

Proper Shipping Name (IATA) Corrosive solid, n.o.s.

Packing group (IATA) Ш Transport hazard class(es) (IATA) 8 Hazard labels (IATA) 8 Class (IATA) 8 PCA Excepted quantities (IATA) E1 PCA Limited quantities (IATA) Y845 PCA limited quantity max net 5kg

quantity (IATA)

PCA packing instructions (IATA) 860 PCA max net quantity (IATA) 25kg CAO packing instructions (IATA) 864 CAO max net quantity (IATA) 100kg Special provision (IATA) A3, A803 ERG code (IATA)

Marine pollutant Not applicable

Regulations in Japan

Regulatory information by sea Conform to the provisions of the Ship Safety Law. Conform to the provisions of the Civil Aeronautics Law. Regulatory information by air

MFAG-No 154

Special transport precautions When transporting, load containers so that they do not tip over, damage, drop or collapse. Make sure there is no leak in containers.

15. Regulatory information

National law

Industrial Safety and Health Law Not applicable Japanese Poisonous and Not applicable

Deleterious Substances Control Law

Fire Service Law Not applicable

Foreign Exchange and Foreign

Trade Control Act

Export Trade Control Ordinance appendix 1-16

Ship Safety Act Corrosive substances (Dangerous Goods Notification Schedule first

second and third Article Dangerous Goods Regulations)

Civil Aeronautics Law Corrosive substances (Hazardous materials notice Appended Table 1

Article 194 of the Enforcement Regulations)

Port Regulation Law Corrosive substances (Article 21, Paragraph 2 of Law, Article 12 rule,

notice attached table that defines the type of dangerous goods)

Japanese Pollutant Release and Transfer Register Law (PRTR Law) Not applicable

Revision date: 8/6/2020 SDS code: E3-05 Version: 05.1

16. Other information

Data sources

 Handbook of 17120 Chemical Products, The Chemical Daily Co, Ltd. International Chemical Safety Cards.
 National Institute of Technology and Evaluation (NITE).
 2016 Emergency Response Guidebook (ERG 2016).

Other information

The SDS is copyrighted material of Havashi Pure Chemical Ind. Ltd. This Safety Data Sheet is intended to be provided for business operators who handle chemical substance products of the relevant product and is not intended to assure safety in any way. The Safety Data Sheet does not verify all the information on the applicable chemical substance in the present time. With the recognition in that unknown danger constantly exists in the relevant chemical substance, the product shall be used in the principle of self-responsibility of the user with the highest priority to safety from transport and unpacking to disposal. When the relevant chemical substance is used, the user him/herself shall collect safety information and shall investigate laws and regulations at the place, organizations, countries, etc. where the substance is actually used and give the highest priority to them. The Company shall take no responsibility for investigating state and local regulations and the user shall handle this problem on his/her own responsibility. In the event that SDS in Japanese and SDS translated into other languages exist, the document described in Japanese is prior to all other documents whether or not there is any difference in contents, and documents in other languages shall be references.