

# **SAFETY DATA SHEET**

Creation Date 24-Nov-2010 Revision Date 17-Dec-2018 Revision Number 4

## 1. Identification

Product Name Chloramine T Trihydrate

Cat No. : C2846

**CAS-No** 7080-50-4

Synonyms N-Chloro-p-toluenesulfonamide, sodium salt; Tosylchloramide sodium

Recommended Use Laboratory chemicals.

Uses advised against Not for food, drug, pesticide or biocidal product use

#### Details of the supplier of the safety data sheet

Company
Lab Alley LLC
22111 Highway 71 West, Suite 601
Spicewood, Texas 78669
Tel: 512-668-9918

# 2. Hazard(s) identification

## Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute oral toxicity

Skin Corrosion/irritation

Serious Eye Damage/Eye Irritation

Respiratory Sensitization

Specific target organ toxicity (single exposure)

Category 1

Category 1

Category 1

Category 3

Target Organs - Respiratory system.

#### **Label Elements**

## Signal Word

Danger

#### **Hazard Statements**

Harmful if swallowed Causes severe skin burns and eye damage

May cause respiratory irritation

May cause allergy or asthma symptoms or breathing difficulties if inhaled



## **Precautionary Statements**

#### Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Do not breathe dust/fume/gas/mist/vapors/spray

Wear protective gloves/protective clothing/eye protection/face protection

In case of inadequate ventilation wear respiratory protection

Use only outdoors or in a well-ventilated area

#### Response

Immediately call a POISON CENTER or doctor/physician

#### Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

#### Skin

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower

Wash contaminated clothing before reuse

#### Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

# Ingestion

Rinse mouth

Do NOT induce vomiting

## Storage

Store locked up

Store in a well-ventilated place. Keep container tightly closed

# Disposal

Dispose of contents/container to an approved waste disposal plant

## Hazards not otherwise classified (HNOC)

Contact with acids liberates toxic gas

# 3. Composition/Information on Ingredients

Component	CAS-No	Weight %		
Chloramine-T trihydrate	7080-50-4	>95		
Chloramine-T	127-65-1	-		

#### 4. First-aid measures

**General Advice** Show this safety data sheet to the doctor in attendance. Immediate medical attention is

required.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Immediate medical attention is required. Keep eye wide open while rinsing.

**Skin Contact** Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. Call a physician immediately.

**Inhalation** Move to fresh air. Do not use mouth-to-mouth method if victim ingested or inhaled the

substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician or Poison Control Center

immediately. If not breathing, give artificial respiration.

Ingestion Do not induce vomiting. Immediate medical attention is required. Drink plenty of water.

Never give anything by mouth to an unconscious person.

Most important symptoms and

effects

Causes burns by all exposure routes. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation: Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing

**Notes to Physician** Treat symptomatically

## 5. Fire-fighting measures

CO<sub>2</sub>, dry chemical, dry sand, alcohol-resistant foam. **Suitable Extinguishing Media** 

**Unsuitable Extinguishing Media** No information available

192 °C / 377.6 °F **Flash Point** 

Method -No information available

**Autoignition Temperature** 

**Explosion Limits** 

Not applicable

Upper No data available No data available Lower Sensitivity to Mechanical Impact No information available Sensitivity to Static Discharge No information available

#### **Specific Hazards Arising from the Chemical**

The product causes burns of eyes, skin and mucous membranes.

#### **Hazardous Combustion Products**

Hydrogen chloride gas Nitrogen oxides (NOx) Carbon monoxide (CO) Carbon dioxide (CO2) Chlorine Sulfur oxides **Protective Equipment and Precautions for Firefighters** 

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

NFPA

Health	Flammability	Instability	Physical hazards
3	1	1	N/A

#### Accidental release measures

**Personal Precautions** Evacuate personnel to safe areas. Use personal protective equipment. Avoid contact with

skin, eyes and clothing.

Do not allow material to contaminate ground water system. Should not be released into the **Environmental Precautions** 

environment. See Section 12 for additional ecological information.

Methods for Containment and Clean Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust

formation. Up

	7. Handling and storage
Handling	Use only under a chemical fume hood. Wear personal protective equipment. Do not get in eyes, on skin, or on clothing. Do not breathe dust. Do not ingest.
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place. Corrosives area.

## 8. Exposure controls / personal protection

Exposure Guidelines This product does not contain any hazardous materials with occupational exposure

limitsestablished by the region specific regulatory bodies.

Engineering Measures Use only under a chemical fume hood. Ensure that eyewash stations and safety showers

are close to the workstation location.

Personal Protective Equipment

**Eye/face Protection**Wear appropriate protective eyeglasses or chemical safety goggles as described by

OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard

EN166.

**Skin and body protection** Long sleeved clothing.

Respiratory Protection Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard

EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice.

## 9. Physical and chemical properties

Physical StatePowder SolidAppearanceOff-whiteOdorslight chlorine

Odor Threshold No information available

**pH** 8-10 5% aq.sol

Melting Point/Range 170 - 177 °C / 338 - 350.6 °F

Boiling Point/RangeNo information availableFlash Point192 °C / 377.6 °FEvaporation RateNot applicable

Flammability (solid,gas)

No information available

Flammability or explosive limits

UpperNo data availableLowerNo data availableVapor PressureNo information available

Vapor Density Not applicable

Specific Gravity No information available

**Solubility** soluble

Partition coefficient; n-octanol/waterNo data availableAutoignition TemperatureNot applicable

**Decomposition Temperature**No information available

Viscosity Not applicable

Molecular Formula C7 H7 Cl N Na O2 S . 3 H2 O

Molecular Weight 281.69

# 10. Stability and reactivity

Reactive Hazard Yes

**Stability** Stable under normal conditions.

Conditions to Avoid Incompatible products. Excess heat.

Incompatible Materials Acids, Strong oxidizing agents

Hazardous Decomposition Products Hydrogen chloride gas, Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide

(CO<sub>2</sub>), Chlorine, Sulfur oxides

**Hazardous Polymerization** Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

## 11. Toxicological information

#### **Acute Toxicity**

# Product Information Component Information

 Component
 LD50 Oral
 LD50 Dermal
 LC50 Inhalation

 Chloramine-T
 LD50 = 935 mg/kg ( Rat )
 Not listed
 Not listed

**Toxicologically Synergistic** 

**Products** 

No information available

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

Irritation Causes burns by all exposure routes

Sensitization No information available

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Chloramine-T	7080-50-4	Not listed				
trihydrate						
Chloramine-T	127-65-1	Not listed				

Mutagenic Effects Not mutagenic in AMES Test

**Reproductive Effects**No information available.

**Developmental Effects** No information available.

**Teratogenicity** No information available.

STOT - single exposure Respiratory system

STOT - repeated exposure None known

Aspiration hazard No information available

Symptoms / effects,both acute and Product is a corrosive material. Use of gastric lavage or emesis is contraindicated.

delayed

Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation: Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the

of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing

Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated.

## 12. Ecological information

#### **Ecotoxicity**

Do not empty into drains.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Chloramine-T	EC50: = 80 mg/L, 144h	LC50: 6.52 - 7.51 mg/L, 96h	Not listed	EC50: = 4.5 mg/L, 48h
	(Chlorella pyrenoidosa)	static (Pimephales		(Daphnia magna)
		promelas)		
		LC50: 1.63 - 2.19 mg/L, 96h		
		static (Oncorhynchus		

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mykiss)	
LC50: 20.2 - 26.2 mg/L, 96h flow-through (Oncorhynchus	
flow-through (Oncorhynchus	
mykiss)	
LC50: = 31 mg/L, 96h	
semi-static (Poecilia	
reticulata)	

Persistence and Degradability Soluble in water Persistence is unlikely based on information available.

**Bioaccumulation/ Accumulation**No information available.

**Mobility** Will likely be mobile in the environment due to its water solubility.

## 13. Disposal considerations

**Waste Disposal Methods** 

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

# 14. Transport information

DOT

UN-No UN3263

Proper Shipping Name CORROSIVE SOLID, BASIC, ORGANIC, N.O.S.

Proper technical name Chloramine-T trihydrate

Hazard Class 8
Packing Group

**TDG** 

UN-No UN3263

Proper Shipping Name CORROSIVE SOLID, BASIC, ORGANIC, N.O.S.

Hazard Class 8
Packing Group III

<u>IATA</u>

UN-No UN3263

Proper Shipping Name CORROSIVE SOLID, BASIC, ORGANIC, N.O.S.

Hazard Class 8
Packing Group III

IMDG/IMO

UN-No UN3263

Proper Shipping Name CORROSIVE SOLID, BASIC, ORGANIC, N.O.S.

Hazard Class 8
Packing Group III

## 15. Regulatory information

#### **International Inventories**

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Chloramine-T trihydrate	-	-	-	-	-		Χ	-	-	Х	-
Chloramine-T	Х	Х	-	204-854-7	-		Х	Χ	Х	Х	-

#### Legend:

- X Listed
- E Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
- F Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
- N Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
- P Indicates a commenced PMN substance
- R Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
- S Indicates a substance that is identified in a proposed or final Significant New Use Rule
- T Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

## U.S. Federal Regulations

TSCA 12(b) Not applicable

SARA 313 Not applicable

SARA 311/312 Hazard Categories See section 2 for more information

CWA (Clean Water Act)

Not applicable

Not applicable

**OSHA** Occupational Safety and Health Administration

Not applicable

CERCLA Not applicable

California Proposition 65 This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know

Regulations

Not applicable

#### **U.S. Department of Transportation**

Reportable Quantity (RQ): N
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

## **U.S. Department of Homeland Security**

This product does not contain any DHS chemicals.

## Other International Regulations

Mexico - Grade No information available

	16. Other information			
Prepared By	Regulatory Affairs Lab Alley LLC			
	Email: customerservice@laballey.com			
	24-Nov-2010			
Creation Date	17-Dec-2018			
Revision Date 17-Dec-2018				
Print Date This document has been updated to comply with the US OSHA HazCom 2012 Stand				
Revision Summary	replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).			

#### **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

## **End of SDS**