Chlorine Water, Saturated



Section 1

Product Description

Product Name: Chlorine Water, Saturated
Recommended Use: Science education applications

Synonyms: Chlorine Test Solution

Distributor: Carolina Biological Supply Company

2700 York Road, Burlington, NC 27215

1-800-227-1150

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)

Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

Section 2

Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;





Causes skin irritation. Causes serious eye irritation. Harmful to aquatic life.

GHS Classification:

Skin Corrosion/Irritation Category 2, Serious Eye Damage/Eye Irritation Category 2A, Hazardous to the aquatic environment - Acute Category 3

Section 3

Composition / Information on Ingredients

 Chemical Name
 CAS #
 %

 Water
 7732-18-5
 99.4

 Chlorine
 7782-50-5
 0.6

Section 4

First Aid Measures

Emergency and First Aid Procedures

In case of accident by inhalation: remove casualty to fresh air and keep at rest.

Eyes: 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: Get medical advice/attention.

Skin Contact: After contact with skin, wash immediately with plenty of water.

Ingestion: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Section 5

Firefighting Procedures

Extinguishing Media: Use media suitable to extinguish surrounding fire.

Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained

breathing apparatus.

Fire and/or Explosion Hazards: Fire or excessive heat may produce hazardous decomposition products.

Hazardous Combustion Products: Chlorine containing gases

Section 6

Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled:

Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill. Ventilate the contaminated area. Isolate area. Keep unnecessary personnel away. A large(uncontrolled) release should only be handled by a specially trained spill brigade or by a qualified contractor.

Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation. Do not allow the spilled product to enter public drainage system or open waterways. Use an inert absorbent such as sand or vermiculite. Place in properly labeled closed container. Ensure clean-up measures are in compliance with OSHA (29 CFR 1910.120).

Section 7

Handling and Storage

Wash thoroughly after handling. Avoid release to the environment. Wear protective gloves/protective Handling:

> clothing/eye protection/face protection. Keep container tightly closed in a cool, well-ventilated place. Avoid contact with skin and eyes. After contact with skin, take off immediately all contaminated clothing, and wash

immediately with plenty of water.

Suitable for any general chemical storage. Storage:

Storage Code: White - Corrosive. Separate acids from bases; separate oxidizer acids from organic acids.

Section 8 **Protection Information**

ACGIH OSHA PEL

Chemical Name (TWA) (TWA) (STEL) (STEL) Chlorine 0.5 ppm TWA 1 ppm STEL N/A N/A

Control Parameters

Engineering Measures: No exposure limits exist for the constituents of this product. General room ventilation

might be required to maintain operator comfort under normal conditions of use. Local exhaust ventilation may be necessary to control any air contaminants to within the TLV

during the use of this product

Personal Protective Equipment (PPE):

Respiratory Protection:

Lab coat, apron, eye wash, safety shower.

No respiratory protection required under normal conditions of use. Wear a NIOSH

approved respirator if any exposure is possible.

Eye Protection: Wear chemical splash goggles when handling this product. Have an eye wash station

available.

Skin Protection: Avoid skin contact by wearing chemically resistant gloves, an apron and other protective

> equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work. Where use can result in skin contact, practice good personal hygiene. Use impervious gloves. Inspect gloves for chemical break-through and

replace at regular intervals. Clean protective equipment regularly.

Nitrile Gloves:

Section 9 **Physical Data**

Formula: N/A

Vapor Pressure: N/A Molecular Weight: 18.01 g/mol (water) Evaporation Rate (BuAc=1): >1

Appearance: Colorless Liquid Vapor Density (Air=1): N/A

Odor: None Specific Gravity: 1.02 Odor Threshold: No data available Solubility in Water: Soluble

Log Pow (calculated): No data available **pH:** No data available Melting Point: No data available Autoignition Temperature: No data available

Boiling Point: 100 C Decomposition Temperature: No data available

Flash Point: No data available Viscosity: No data available

Flammable Limits in Air: N/A Percent Volatile by Volume: No data available

Section 10 Reactivity Data

Reactivity: No data available

Chemical Stability: Stable under normal conditions.

Conditions to Avoid: None known.

Incompatible Materials: Water-reactive materials, Ammonia, Hydrocarbons, Halogens, Metals, Ether,

Hazardous Decomposition Products: Halogenated compounds (Cl, F, Br),

Hazardous Polymerization: Will not occur

Section 11 Toxicity Data

Routes of Entry Inhalation, ingestion, eye or skin contact.

Symptoms (Acute): Respiratory disorders, , Eye disorders, Gastrointestinal,

Delayed Effects: No data available

Acute Toxicity:

Chemical Name CAS Number Oral LD50 Dermal LD50 Inhalation LC50

Water 7732-18-5 Oral LD50 Rat

90000 mg/kg

Chlorine 7782-50-5

Carcinogenicity:

Chemical NameCAS NumberIARCNTPOSHANo data available7732-18-5Not listedNot listedNot listed

7782-50-5

Chronic Effects:

Mutagenicity: No evidence of a mutagenic effect.

Teratogenicity: No evidence of a teratogenic effect (birth defect).

Sensitization: No evidence of a sensitization effect.

Reproductive: No evidence of negative reproductive effects.

Target Organ Effects:

Acute: See Section 2

Chronic: Not listed as a carcinogen by IARC, NTP or OSHA.

Section 12 Ecological Data

Overview: Moderate ecological hazard. This product may be dangerous to plants and/or wildlife. Keep out of

waterways.

Mobility:No dataPersistence:No dataBioaccumulation:No dataDegradability:No dataOther Adverse Effects:No data

Chemical NameCAS NumberEco ToxicityWater7732-18-5No data available

Chlorine 7782-50-5 96 HR LC50 PIMEPHALES PROMELAS 0.1 MG/L

96 HR LC50 ONCORHYNCHUS MYKISS 0.014 MG/L

48 HR LC50 DAPHNIA MAGNA 0.017 MG/L

Section 13 Disposal Information

Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always

contact a permitted waste disposer (TSD) to assure compliance.

Waste Disposal Code(s): Not Determined

Section 14 Transport Information

Ground - DOT Proper Shipping Name: Air - IATA Proper Shipping Name: Corrosive liquids, n.o.s., (Chlorine Water Solution) Not regulated for air transport by IATA.

Section 15 Regulatory Information TSCA Status: All components in this product are on the TSCA Inventory. **Chemical Name** CAS § 313 Name § 304 RQ **CERCLA RQ** § 302 TPQ **CAA 112(2)** Number TQ Chlorine 7782-50-5 Chlorine 10 lb RQ 10 lb final RQ; 100 lb TPQ No

4.54 kg final

RQ

California Prop 65: No California Proposition 65 ingredients

Section 16	Additional
	Information

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The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

Glossary			
ACGIH	American Conference of Governmental	NTP	National Toxicology Program
	Industrial Hygienists	OSHA	Occupational Safety and Health Administration
CAS	Chemical Abstract Service Number	PEL	Permissible Exposure Limit
CERCLA	Comprehensive Environmental Response,	ppm	Parts per million
	Compensation, and Liability Act	RCRA	Resource Conservation and Recovery Act
DOT	U.S. Department of Transportation	SARA	Superfund Amendments and Reauthorization Act
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
N/A	Not Available	TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health