

SAFETY DATA SHEET

Creation Date 30-Apr-2010	Revision Date 05-Dec-2023
	1. Identification
Product Name	Sodium hypochlorite
Cat No. :	C7520
Synonyms	No information available
Recommended Use	Laboratory chemicals.
Uses advised against Details of the supplier of the safe	No Information available ety data sheet
Company	

Company

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

2. Hazard(s) identification

Classification

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

Corrosive to metals Skin Corrosion/irritation Serious Eye Damage/Eye Irritation Specific target organ toxicity (single exposure) Target Organs - Respiratory system. Category 1 Category 2 Category 1 Category 3

Label Elements

Signal Word Danger

Hazard Statements

May be corrosive to metals Causes severe skin burns and eye damage May cause respiratory irritation



Revision Number 2

Precautionary Statements Prevention Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area Keep only in original container Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER or doctor/physician if you feel unwell Skin IF ON SKIN: Wash with plenty of soap and water If skin irritation occurs: Get medical advice/attention Take off contaminated clothing and wash before reuse Eves IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician Spills Absorb spillage to prevent material damage Storage Store in a well-ventilated place. Keep container tightly closed Store locked up Store in corrosive resistant polypropylene container with a resistant inliner Store in a dry place Disposal Dispose of contents/container to an approved waste disposal plant Hazards not otherwise classified (HNOC) Toxic to aquatic life with long lasting effects

Contact with acids liberates toxic gas

3. Composition / information on ingredients

Component	CAS-No	Weight %
Water	7732-18-5	94-96
Sodium hypochlorite	7681-52-9	4-6

	4. First-aid measures
General Advice	Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.
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 plenty of water for at least 15 minutes. Remove and wash contaminated clothing before re-use. Call a physician immediately.
Inhalation	If breathing is difficult, give oxygen. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with a respiratory medical device. Remove from exposure, lie down. Call a physician immediately.
Ingestion	Do not induce vomiting. Never give anything by mouth to an unconscious person. Clean mouth with water. Call a physician immediately.
Most important symptoms/effects	Causes eye burns. Causes burns by all exposure routes Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or

Notes to Physician	esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation Treat symptomatically
	Tour of mpion another
	5. Fire-fighting measures
Suitable Extinguishing Media	CO 2, dry chemical, dry sand, alcohol-resistant foam.
Unsuitable Extinguishing Media	No information available
Flash Point	Not applicable
Method -	No information available
Autoignition Temperature	No information available
Explosion Limits	Na data availabla
Upper Lower	No data available No data available
Sensitivity to Mechanical Impac	
Sensitivity to Static Discharge	No information available

Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors. The product causes burns of eyes, skin and mucous membranes. Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous Combustion Products

Hydrogen chloride gas Sodium oxides Thermal decomposition can lead to release of irritating gases and vapors **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.

<u>NFPA</u> Health 3	Flammability 0	Instability 1	Physical hazards N/A
	6. Accidental re	lease measures	
Personal Precautions		n. Use personal protective equ acuate personnel to safe area	ipment. Keep people away from s.
Environmental Precautions	Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained. See Section 12 for additiona ecological information. Avoid release to the environment. Collect spillage.		

Methods for Containment and Clean Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. 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 ingest. Do not breathe vapors or spray mist.
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 limits established 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. Tightly fitting safety goggles. Face-shield.
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 State	Liquid
Appearance	Light yellow
Odor	Chlorine
Odor Threshold	No information available
рН	No information available
Melting Point/Range	0 °C / 32 °F
Boiling Point/Range	No information available
Flash Point	Not applicable
Evaporation Rate	> 1 (Ether = 1.0)
Flammability (solid,gas)	Not applicable
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	14 mmHg
Vapor Density	No information available
Specific Gravity	1.1
Solubility	Soluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	No information available
Molecular Formula	NaOCI
Molecular Weight	75.4492

10. Stability and reactivity

Reactive Hazard	Yes
Stability	Stable under normal conditions.
Conditions to Avoid	Incompatible products. Excess heat.
Incompatible Materials	Strong oxidizing agents, Strong acids, Strong bases, Strong reducing agents
Hazardous Decomposition Product	s Hydrogen chloride gas, Sodium oxides, Thermal decomposition can lead to release of irritating gases and vapors
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.
	11. Toxicological information

Acute Toxicity

Product Information	ו	Deced on ATE dat	a the classification	aritaria ara nat m	at ATE : 2000 mg	n///ca
Oral LD50		Based on ATE data Based on ATE data				
Dermal LD50		Based on ATE data				
Vapor LC50 Component Informa	ation	Daseu UNATE Udi			et. ATE > 20 mg/l.	
Component		LD50 Oral		LD50 Dermal	1 C 50	Inhalation
Sodium hypoch		8200 mg/kg (Rat)		0 mg/kg (Rabbit)		mg/l (Rat) 1h
Toxicologically Syr		No information ava		U HIY/KY (Kabbit)	> 10300	ilig/i (Kat) Ili
Products	lergistic	NO INFORMATION AVA	liable			
Delayed and immed	liato offocte as w	all as chronic offo	cts from short an	d long-term expo	SUITO	
Delayeu anu inimet	nale enecis as w		cis ironi snort an	u long-term expos	sure	
Irritation		Causes burns by a	II exposure routes			
Initation						
Sensitization		No information ava	vilable			
oononinnan on						
Carcinogenicity		The table below in	dicates whether ea	ach agency has list	ed anv ingredient	as a carcinogen.
ea. en. egenen. j						
Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Water	7732-18-5	Not listed	Not listed	Not listed	Not listed	Not listed
Sodium hypochlorite	7681-52-9	Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects		No information ava	ilable			
Reproductive Effec	ts	No information ava	ilable.			
Developmental Effe	ects	No information ava	ilable.			
Teratogenicity		No information available.				
STOT - single expo		Respiratory system				
STOT - repeated exposure		None known				
		No information quailable				
Aspiration hazard		No information available				
Symptoms / offect	both coute and	Product is a corrective motorial. Line of genetric lavage or emosis is contraindicated				
Symptoms / effects,both acute and		Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes				
delayed		severe swelling, severe damage to the delicate tissue and danger of perforation				
Endocrine Disruptor Information		No information available				
Endocrine Disruptor information						
Other Adverse Effe	cts	The toxicological p	roperties have not	been fully investig	ated	

12. Ecological information

Ecotoxicity The product contains following substances which are hazardous for the environment. Very toxic to aquatic organisms.

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Component	Freshw	ater Algae	Freshwater Fish	Microtox	Water Flea
Sodium hypochlorite	0.095 mg/L EC50 = 24 h		Pimephales promelas: LC50=0.82-0.98 mg/L 96h	-	2.1 mg/L EC50 = 96 h 0.033-0.044 mg/L EC50 48 h
Persistence and Degrada	ability	No information	n available		
Bioaccumulation/Accun	nulation	No information	n available.		

Mobility

	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	UN1791
Proper Shipping Name	HYPOCHLORITE SOLUTIONS
Hazard Class	8
Packing Group	III
TDG	
UN-No	UN1791
Proper Shipping Name	HYPOCHLORITE SOLUTION
Hazard Class	8
Packing Group	
UN-No	UN1791
Proper Shipping Name	HYPOCHLORITE SOLUTION
Hazard Class	8
Packing Group	
IMDG/IMO	
UN-No	UN1791
Proper Shipping Name	HYPOCHLORITE SOLUTION
Hazard Class	8
Packing Group	III
	15. Regulatory information

All of the components in the product are on the following Inventory lists: X = listed

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Water	Х	Х	-	231-791-2	-		Х	-	Х	Х	Х
Sodium hypochlorite	Х	Х	-	231-668-3	-		Х	Х	Х	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

plicable

SARA 313	Not applicable

SARA 311/312 Hazardous Categorization	
Acute Health Hazard	
Chronic Health Hazard	
Fire Hazard	
Sudden Release of Pressure Hazard	
Reactive Hazard	

Clean Water Act				
Component	CWA - Hazardous	CWA - Reportable	CWA - Toxic Pollutants	CWA - Priority Pollutants
		-		-

Yes Yes No No Yes

	Substances	Quantities		
Sodium hypochlorite	Х	100 lb	-	-

Clean Air Act

Not applicable

OSHA Occupational Safety and Health Administration Not applicable

CERCLA

Not applicable

Component		Hazardous Substances RQs	CERCLA EHS RQs
Sodium hypochlorite	9	100 lb	-
California Proposition 65	This product	does not contain any Proposition 65 che	emicals

State Right-to-Know

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Water	-	-	Х	-	-
Sodium hypochlorite	Х	Х	Х	-	-

U.S. Department of Transportation

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

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade

No information available

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class

E Corrosive material

D2B Toxic materials

F Dangerously reactive material



Prepared By

16. Other information

Regulatory Affairs Lab Alley LLC Email: customerservice@laballey.com

Creation Date
Revision Date
Print Date
Revision Summary

30-Apr-2010 05-Dec-2023 05-Dec-2023 This document has been updated to comply with the US OSHA HazCom 2012 Standard 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 on 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of SDS