

SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

	Product name	Sodium Hypochlorite 12% Solution
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CAS number 7681-52-9

Synonyms Antiformin

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses Laboratory chemicals

1.3 Details of the supplier of the safety data sheet

Company	Lab Alley, LLC 12501 Pauls Valley Road Austin, Texas 78737 U.S.A.
Telephone	512-668-9918
Fax	512-886-4008

1.4 Emergency telephone

Emergency Phone #	US & Canada: 1-800-535-5053	INFOTRAC
	International 1-352-323-3500	INFOTRAC

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Corrosive to metals (Category 1) Skin corrosion/irritation (Category 1) Serious eye damage/irritation (Category 1) Specific target organ toxicity (Single exposure) (Category 3) Target organs - Respiratory system

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Wor	d D	Danger
Hazard stat	N	May be corrosive to metals Causes severe skin burns and eye damage
	N	May cause respiratory irritation
Precaution	ary statement	ts
Prevention	Wash face, ha Wear protectiv Use only outd	ne dust/fume/gas/mist/vapors/spray ands and and any exposed skin thoroughly after handling ive gloves/protective clothing/eye protection/face protection doors or in a well-ventilated area original container
Response	Immediately c	call a POISON CENTER or physician Remove victim to fresh air and keep at rest in a position comfortable for
Skin	water/shower	Take off immediately all contaminated clothing. Rinse skin with
Ingestion Spills Storage	IF SWALLOW Absorb spillag Store locked u Store in a wel	VED: Rinse mouth. DO NOT induce vomiting. ge to prevent material damage. up II-ventilated place. Keep container tightly closed rosive resistant polypropylene container with a resistant inliner
Disposal	•	ontents/container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Very toxic to aquatic life. Toxic to aquatic life with long lasting effects. Contact with acids liberates toxic gas.

SECTION 3: Composition/information on ingredients

3.1 Components

Chemical name	Common name and synonyms	CAS number	Concentration
Water	-	7732-18-5	85-87.5%
Sodium hypochlorite	Antiformin	7681-52-9	12.5-15%

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice

If inhaled	If not breathing, give artificial respiration. Remove from exposure, lie down. 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 immediately.
In case of skin contact	Wash off immediately with plenty of water for at least 15 minutes. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Call a physician immediately.
In case of eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.
If swallowed	Do NOT induce vomiting. Clean mouth with water. Never give anything by mouth to an unconscious person. Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

Causes burns by all exposure routes. 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.

4.3 Indication of any immediate medical attention and special treatment needed Notes to physician: Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing mediaSuitable extinguishing mediaCO2, dry chemical, dry sand, alcohol-resistant foam.

Unsuitable extinguishing media No information available

5.2 Specific hazards arising from the substance or mixture

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: Chlorine. Oxygen.

5.3 Special 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.

5.4 Further information

Flash Point No information available

Autoignition Temperature No i

No information available

Explosion limits

Upper	••					
Lower	No information ava	ilable				
Sensitivity	Sensitivity to Mechanical Impact No information available					
Sensitivity to Static Discharge			No information available	е		
NFPA						
Health	Flammability	Physical hazards				
3	0	1	N/A			

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

6.2 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.

6.3 Methods and materials for containment and cleaning up

Soak up with inert adsorbent material. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

See section 2 for full list of hazard and precaution statements.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Precautions on safe handling

Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Use only under a chemical fume hood. Do not breathe mist/vapors/spray. Do not ingest. If swallowed then seek immediate medical assistance.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Keep container tightly closed in a dry and well-ventilated place. Do not store in metal containers. Protect from direct sunlight. Keep refrigerated.

Incompatibilities

Acids, strong oxidizing agents, metals, amines.

SECTION 8: Exposure controls/personal protection

8.1 Occupational exposure limits

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

8.2 Exposure controls

Appropriate engineering controls

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 protection

Long sleeved clothing.

Body Protection

Long sleeved clothing.

Respiratory protection

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Control of environmental exposure

No information available

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical State Appearance Odor Odor Threshold pH Melting Point/Range Boiling Point/Range Liquid Yellow Pungent chlorine No information available 11-13 pH -16 °C / 3.2 °F No information available

Evaporation Rate Flammability (solid)	No information available Not applicable
Flammability or explosive limit	No information available
Upper	No information available
Lower	No information available
Vapor Pressure	No information available
Vapor Density	No information available
Density	1.2-1.3
Solubility	Soluble in water
Partition coefficient; n-octanol/water	No information available
Autoignition Temp	No information available
Decomposition Temp	No information available
Viscosity	No information available
Molecular Formula	CINaO
Molecular Weight	74.44
VOC Content(%)	No information available
Oxidizing properties	No information available

9.2 Other safety information

No information available

SECTION 10: Stability and reactivity

10.1 Reactivity

Yes

10.2 Chemical stability Stable under normal conditions. Sensitivity to light.

10.3 Possibility of hazardous reactions None under normal processing.

10.4 Conditions to avoid

Incompatible products. Excess heat.

10.5 Incompatible materials

Acids, strong oxidizing agents, metals, amines.

10.6 Hazardous decomposition products Chlorine, oxygen.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Product Information, Component Information

Acute toxicity

Component LD50 Oral LD50 Dermal LC50 Inhalation

Sodium hypochlorite 8.91 g/kg	>2000 mg/kg	10500 mg/l, 1h
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Skin corrosion/irritation

Causes burns by all exposure routes.

Serious eye damage/eye irritation

Causes burns by al exposure routes.

Respiratory or skin sensitization

No information available

Germ cell mutagenicity

No information available

Carcinogenicity

Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico
Sodium hypochlorite	76-52-9	Not listed				
Water	7681-52-9	Not listed				

Specific target organ toxicity - single exposure

Respiratory system

Specific target organ toxicity - repeated exposure

None known

Reproductive toxicity

No information available

Chronic effects

No information available

11.2 Additional Information

Not applicable

SECTION 12: Ecological information

12.1 Toxicity

Product		Species	Test Results
	EC50	Freshwater algae	0.05 mg/L, 72h
Sodium hypochlorite	LC50	Freshwater fish	0.065 mg/L, 96h
	LC50	Water flea	0.032 mg/L, 48h

12.2 Persistence and degradability

Soluble in water. Persistence is unlikely based on information available. Miscible with water.

12.3 Bio accumulative potential

No information available

12.4 Mobility in soil

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

12.5 Results of PBT and vPvB assessment No information available

12.6 Endocrine disrupting properties No information available

12.7 Other adverse effects No information available

SECTION 13: Disposal considerations

13.1 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.

SECTION 14: Transport information

DOT (US)

UN-no.	UN1791
Proper shipping name	HYPOCHLORITE SOLUTIONS
Hazard class	8
Packing group	III

IMDG

UN-no.	UN1791
Proper shipping name	HYPOCHLORITE SOLUTIONS
Hazard class	8
Packing group	III

IATA

UN-no.	UN1791
Proper shipping name	HYPOCHLORITE SOLUTIONS
Hazard class	8
Packing group	III

SECTION 15: Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not applicable

CERCLA Hazardous Substance List (40 CFR 302.4)

Sodium hypochlorite: hazardous substances RQ: 100lb

SARA 304 Emergency release notification

Not regulated

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous See section 2 for more information

SARA 313 (TRI reporting) Not regulated

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List Not regulated

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) Not regulated.

Safe Drinking Water Act Sodium hypochlorite RQ: 100 lb

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

Not listed

US state regulations

US. Massachusetts RTK - Substance List Listed

US. New Jersey Worker and Community Right-to-Know Act Listed

US. Pennsylvania Worker and Community Right-to-Know Law Listed

California Proposition 65 Not listed

SECTION 16: Other information

Issue date: 04/30/2010 Revision 1: 12/05/2023 Revision 2: 07/05/2024

SECTION 17: 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.