

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



Sodium Hypochlorite, 5 - 17%

Version	Revision Date:	SDS Number:	Date of last issue: 06-14-2021
4.1	06-17-2025	10000001223	Date of first issue: 03-22-2017

Olin Corporation (OCAP) encourages and expects you to read and understand the entire (M)SDS, as there is important information throughout the document. We expect you to follow the precautions identified in this document unless your use conditions would necessitate other appropriate methods or actions.

SECTION 1. IDENTIFICATION

Product name : Sodium Hypochlorite, 5 - 17%

Manufacturer or supplier's details

Company name of supplier : Olin Corporation (OCAP)
Address : 190 Carondelet Plaza, Suite 1530
Clayton MO 63105
Telephone : (833) 370-3737
E-mail address : INFO@OLIN.COM
24-Hour Emergency Contact : +1 800 424 9300
Local Emergency Contact : 1-800-424-9300
Identified uses : Disinfectant.
Paper bleaching agent
Water treatment chemicals
Biocidal product
Bleaching agents, Activators and Stabilizers
Textile bleaching agent

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Corrosive to Metals : Category 1
Skin corrosion : Category 1B
Serious eye damage : Category 1

GHS label elements

Hazard pictograms : The GHS hazard pictogram for Corrosion (C), showing a red diamond with a white background. Inside the diamond, there is a black silhouette of a hand being corroded by a liquid dripping from a test tube.

Signal Word : Danger

Hazard Statements : May be corrosive to metals.
Causes severe skin burns and eye damage.

Precautionary Statements : **Prevention:**
P264 Wash skin thoroughly after handling.
P280 Wear protective gloves/ protective clothing/ eye protection/

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face protection.

Response:

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.
P305 + P351 + P338 + P310 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/ doctor.
P363 Wash contaminated clothing before reuse.
P390 Absorb spillage to prevent material damage.

Storage:

P405 Store locked up.
P406 Store in corrosive resistant container with a resistant inner liner.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance
Substance name : Sodium Hypochlorite, 5 - 17%
CAS-No. : 7681-52-9

Components

Chemical name	CAS-No.	Concentration (% w/w)
Sodium hypochlorite	7681-52-9	>= 5 - <= 17
Water	7732-18-5	>= 83 - <= 95
Sodium hydroxide	1310-73-2	>= 0.1 - <= 4.5

SECTION 4. FIRST AID MEASURES

If inhaled : Move person to fresh air; if effects occur, consult a physician.
In case of skin contact : Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing. Seek medical attention if symptoms occur or irritation persists. Wash clothing before reuse.
Suitable emergency safety shower facility should be immediately available.
In case of eye contact : - Wash eyes with plenty of water for 15 minutes at least. Do

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- not forget to remove contact lenses.
Suitable emergency eye wash facility should be immediately available.
- If swallowed : Do not induce vomiting. Give one cup (8 ounces or 240 ml) of water or milk if available and transport to a medical facility. Do not give anything by mouth unless the person is fully conscious.
- Most important symptoms and effects, both acute and delayed : Aside from the information found under Description of first aid measures(above)any additional important symptoms and effects are described in Section 11: Toxicology Information.
- Protection of first-aiders : First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection).
If potential for exposure exists refer to Section 8 for specific personal protective equipment.
- Notes to physician : May cause asthma-like (reactive airways) symptoms. Bronchodilators, expectorants, antitussives and corticosteroids may be of help.
Maintain adequate ventilation and oxygenation of the patient. Chemical eye burns may require extended irrigation. Obtain prompt consultation, preferably from an ophthalmologist.
If burn is present, treat as any thermal burn, after decontamination.
Due to irritant properties, swallowing may result in burns/ulceration of mouth, stomach and lower gastrointestinal tract with subsequent stricture. Aspiration of vomitus may cause lung injury. Suggest endotracheal/esophageal control if lavage is done.
No specific antidote.
Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.
Repeated excessive exposure may aggravate preexisting lung disease.
-

SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : In case of fire, use water fog, foam, dry powder, carbon dioxide.
- Unsuitable extinguishing media : Do NOT use water jet.
May spread fire.
Dry chemical extinguishing agents may react with product; use with caution.
- Hazardous combustion products : During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating.
- Further information : For safety reasons in case of fire, containers should be stored separately in closed containments.
Do not breathe fumes.
- Special protective equipment for fire-fighters : Wear full protective clothing and self-contained breathing apparatus.

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SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Evacuate area.
Only trained and properly protected personnel must be involved in clean-up operations.
Wear suitable protective equipment.
Keep upwind of spill.
Avoid breathing vapor.
Ventilate area of leak or spill.
Avoid all contact.
Keep people away from and upwind of spill/leak.
Wear suitable protective clothing.
Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.
- Environmental precautions : Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information.
Do not discharge directly to a water source.
See Section 13, Disposal Considerations, for additional information.
- Methods and materials for containment and cleaning up : Contain spilled material if possible.
Absorb with materials such as:
Vermiculite.
Cover with absorbent or contain. Collect and dispose.
Dike and transfer to suitable and properly labeled containers.
This material is corrosive. See SECTION 8, Exposure Controls/Personal Protection, prior to handling.
Soak up with inert absorbent material (e.g. sand, silica gel, polypropylene absorbent).

SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : Keep container closed.
Do not get in eyes, on skin, or on clothing.
Avoid prolonged contact with eyes, skin and clothing.
Wear personal protective equipment.
Use with adequate ventilation.
Protect from direct exposure to sunlight.
Use good general industrial hygiene practices for handling.
Wash thoroughly after handling.
- Conditions for safe storage : Keep container tightly closed.
Store away from incompatible materials. See STABILITY AND REACTIVITY section.
Store under cover in a dry, clean, cool, well ventilated place away from sunlight.
Store away from oxidizing materials.
Store in original vented container.

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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Sodium hypochlorite	7681-52-9	STEL	2 mg/m ³	US WEEL
Sodium hydroxide	1310-73-2	C	2 mg/m ³	ACGIH
		C	2 mg/m ³	OSHA P0
		TWA	2 mg/m ³	OSHA Z-1

Engineering measures : Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations.

Personal protective equipment

Respiratory protection : Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. For most conditions no respiratory protection should be needed; however, if discomfort is experienced, use an approved air-purifying respirator.

Filter type : The following should be effective types of air-purifying respirators: Particulate filter.

Hand protection

Remarks : Use gloves chemically resistant to this material. Examples of preferred glove barrier materials include: Natural rubber ('latex'). Neoprene. Nitrile/butadiene rubber ('nitrile' or 'NBR'). Polyethylene. Ethyl vinyl alcohol laminate ('EVAL'). Polyvinyl chloride ('PVC' or 'vinyl'). Avoid gloves made of: Polyvinyl alcohol ('PVA'). NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier.

Eye protection : Use chemical goggles.

Skin and body protection : Use protective clothing chemically resistant to this material. Selection of specific items such as face shield, boots, apron, or full body suit will depend on the task. Reports indicate that sodium hypochlorite can react with various fabrics usually increasing with concentration.

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Reactions vary significantly depending on strength of chemical, material, fabric treatment and color of dyes. Fire resistant clothing treated cotton has a stronger response than plain cotton. Poly blend fabrics and meta aramid fabric have a weaker response than natural fibers. Contact the Personal Protective Equipment manufacturer for specific information about their products.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Color	:	No data available
Odor	:	pungent
Odor Threshold	:	No data available
pH	:	12 - 14 (77 °F / 25 °C)
Freezing point	:	-4 °F / -20 °C Method: Literature
Melting point/range	:	-4 °F / -20 °C Method: Literature
Pour point	:	
Softening point	:	
Boiling point/boiling range	:	No data available
Flash point	:	Not applicable
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not expected to form explosive dust-air mixtures.
Flammability (liquids)	:	Not expected to be a static-accumulating flammable liquid.
Self-ignition	:	The substance or mixture is not classified as pyrophoric.
Upper explosion limit / Upper flammability limit	:	Not applicable
Lower explosion limit / Lower flammability limit	:	Not applicable
Vapor pressure	:	12 mmHg
Relative vapor density	:	Not available
Relative density	:	1.082 - 1.275 (68 °F / 20 °C)

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Solubility(ies)
Water solubility : completely miscible

Partition coefficient: n-
octanol/water : No data available.

Autoignition temperature : Not applicable

Decomposition temperature : No data available

Viscosity
Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Explosive properties : Not applicable

Oxidizing properties : Not applicable

Molecular weight : 74.5 g/mol

Metal corrosion rate : Corrosive to metals

Note: These are the Reference Points for these Physical Properties listed above, unless otherwise noted in their respective Physical Property value information: Boiling Point at 760 mmHg; Evaporation Rate Butyl Acetate = 1; Relative Vapor Density Air = 1; and Relative Density Water = 1.

NOTE: The physical data presented above are typical values and should not be construed as a specification.

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No specific data available.

Chemical stability : Stable under recommended storage conditions. See Storage, Section 7.

Possibility of hazardous reactions : Polymerization will not occur.
Stable under recommended storage conditions.

Conditions to avoid : contact with incompatible materials
Avoid direct sunlight or ultraviolet sources.
Excessive heat.
contact between acids and chlorates, a component of this product mixture, can cause the generation of chlorine gas.

Hazardous decomposition products : Oxygen.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Eye contact
Skin contact
Inhalation
Ingestion

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Acute toxicity

Swallowing may result in burns of the mouth, throat, and gastrointestinal tract.

Components:

Sodium hypochlorite:

- | | | |
|---------------------------|---|--|
| Acute oral toxicity | : | LD50 (Rat): 805 mg/kg
Method: Estimated. |
| Acute inhalation toxicity | : | LC50 (Rat): > 10.5 mg/l
Test atmosphere: dust/mist
Assessment: The substance or mixture has no acute inhalation toxicity |
| Acute dermal toxicity | : | LD50 (Rat): > 1,000 mg/kg |

Sodium hydroxide:

- | | | |
|---------------------------|---|---|
| Acute oral toxicity | : | LD50 (Rabbit): 336 mg/kg
Method: Estimated. |
| Acute inhalation toxicity | : | Remarks: The LC50 has not been determined. |
| Acute dermal toxicity | : | Remarks: The dermal LD50 has not been determined. |

Skin corrosion/irritation

Causes severe skin burns and eye damage.

Components:

Sodium hypochlorite:

- | | | |
|---------|---|--|
| Result | : | Causes burns. |
| Remarks | : | Brief contact may cause skin burns. Symptoms may include pain, severe local redness and tissue damage.
Prolonged contact may cause severe skin burns. Symptoms may include pain, severe local redness, swelling, and tissue damage. |

Sodium hydroxide:

- | | | |
|---------|---|---|
| Result | : | Causes severe burns. |
| Remarks | : | Brief contact may cause severe skin burns. Symptoms may include pain, severe local redness and tissue damage. |

Serious eye damage/eye irritation

Causes severe skin burns and eye damage.

Components:

Sodium hypochlorite:

- | | | |
|---------|---|---|
| Result | : | Corrosive |
| Remarks | : | May cause severe irritation with corneal injury which may result in permanent impairment of vision, even blindness. Chemical burns may occur. |

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Sodium hydroxide:

Result : Corrosive
Remarks : May cause severe irritation with corneal injury which may result in permanent impairment of vision, even blindness. Chemical burns may occur.
Dust may irritate eyes.

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Components:

Sodium hypochlorite:

Assessment : Does not cause skin sensitization.
Remarks : Did not cause allergic skin reactions when tested in guinea pigs.

Remarks : For respiratory sensitization:
No relevant data found.

Sodium hydroxide:

Assessment : Does not cause skin sensitization.
Remarks : Did not cause allergic skin reactions when tested in humans.

Remarks : For respiratory sensitization:
No relevant data found.

Germ cell mutagenicity

Not classified based on available information.

Components:

Sodium hypochlorite:

Genotoxicity in vitro : Remarks: In vitro genetic toxicity studies were negative in some cases and positive in other cases.
Animal genetic toxicity studies were predominantly negative.

Sodium hydroxide:

Genotoxicity in vitro : Remarks: In vitro genetic toxicity studies were negative.

Carcinogenicity

Not classified based on available information.

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Components:

Sodium hypochlorite:

Remarks : Did not cause cancer in laboratory animals.

Sodium hydroxide:

Remarks : No relevant data found.

IARC No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified based on available information.

Components:

Sodium hypochlorite:

Effects on fertility : Remarks: For similar material(s):
In animal studies, did not interfere with reproduction.
In animal studies, did not interfere with fertility.

Effects on fetal development : Remarks: Did not cause birth defects or any other fetal effects in laboratory animals.

Sodium hydroxide:

Effects on fertility : Remarks: No relevant data found.

Effects on fetal development : Remarks: No relevant data found.

STOT-single exposure

Not classified based on available information.

Components:

Sodium hypochlorite:

Assessment : Material is corrosive. Material is not classified as a respiratory irritant; however, upper respiratory tract irritation or corrosivity may be expected.

Sodium hydroxide:

Assessment : Available data are inadequate to determine single exposure specific target organ toxicity.

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STOT-repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

Sodium hypochlorite:

Remarks : Repeated exposures to dusts of this material are not anticipated to result in systemic toxicity or permanent lung injury; however, excessive exposures may cause less severe respiratory effects.

Sodium hydroxide:

Remarks : Based on available data, repeated exposures are not anticipated to cause additional significant adverse effects.

Aspiration toxicity

Not classified based on available information.

Components:

Sodium hypochlorite:

Aspiration into the lungs may occur during ingestion or vomiting, causing tissue damage or lung injury.

Sodium hydroxide:

Aspiration into the lungs may occur during ingestion or vomiting, causing tissue damage or lung injury.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Sodium hypochlorite:

Toxicity to fish : Remarks: Material is very highly toxic to aquatic organisms on an acute basis (LC50/EC50 <0.1 mg/L in the most sensitive species).

LC50 (Pimephales promelas (fathead minnow)): 0.22 - 0.62 mg/l

Exposure time: 96 h

Method: Method Not Specified.

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.035 mg/l
Exposure time: 48 h

Test Type: flow-through test

Method: OECD Test Guideline 202

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M-Factor (Acute aquatic toxicity) : 10
Toxicity to fish (Chronic toxicity) : NOEC (Menidia peninsulae (tidewater silverside)): 0.04 mg/l
Exposure time: 28 d
Test Type: flow-through test
Method: Other guidelines

M-Factor (Chronic aquatic toxicity) : 1
Toxicity to microorganisms : EC50 (activated sludge): 28.7 mg/l

Sodium hydroxide:

Toxicity to fish : Remarks: May increase pH of aquatic systems to > pH 10 which may be toxic to aquatic organisms.

Persistence and degradability

Components:

Sodium hypochlorite:

Biodegradability : Remarks: Biodegradability is not applicable to inorganic substances.

Sodium hydroxide:

Biodegradability : Remarks: Biodegradability is not applicable to inorganic substances.

Bioaccumulative potential

Components:

Sodium hypochlorite:

Partition coefficient: n-octanol/water : Remarks: Bioconcentration potential is low (BCF < 100 or Log Pow < 3).
Partitioning from water to n-octanol is not applicable.

Sodium hydroxide:

Partition coefficient: n-octanol/water : Remarks: No bioconcentration is expected because of the relatively high water solubility.

Mobility in soil

Components:

Sodium hypochlorite:

Distribution among environmental compartments : Remarks: No relevant data found.

Sodium hydroxide:

Distribution among environmental compartments : Koc: 14
Method: Estimated.

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Remarks: Potential for mobility in soil is very high (Koc between 0 and 50).

Other adverse effects

Components:

Sodium hypochlorite:

Results of PBT and vPvB assessment : This substance has not been assessed for persistence, bioaccumulation and toxicity (PBT).

Sodium hydroxide:

Results of PBT and vPvB assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : AS YOUR SUPPLIER, WE HAVE NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL.
THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN MSDS SECTION: Composition Information.
All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations.
Regulations may vary in different locations.
Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator.
DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

UN number : UN 1791
Proper shipping name : HYPOCHLORITE SOLUTION
Class : 8
Packing group : II
Labels : 8
Environmentally hazardous : yes

IATA-DGR

UN/ID No. : UN 1791
Proper shipping name : Hypochlorite solution
Class : 8
Packing group : II

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Labels : Corrosive
Packing instruction (cargo aircraft) : 855
Packing instruction (passenger aircraft) : 851

IMDG-Code
UN number : UN 1791
Proper shipping name : HYPOCHLORITE SOLUTION (sodium hypochlorite)

Class : 8
Packing group : II
Labels : 8
EmS Code : F-A, S-B
Marine pollutant : yes
Remarks : Stowage category BHypochlorites

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation

49 CFR Road

UN/ID/NA number : UN 1791
Proper shipping name : Hypochlorite solutions
Class : 8
Packing group : II
Labels : CORROSIVE
ERG Code : 154
Marine pollutant : yes(sodium hypochlorite)

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Corrosive to Metals
Skin corrosion or irritation
Serious eye damage or eye irritation

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

US State Regulations

Pennsylvania Right To Know

Sodium hypochlorite	7681-52-9
Sodium hydroxide	1310-73-2

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California Prop. 65

This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute.

California List of Hazardous Substances

Sodium hypochlorite	7681-52-9
Sodium hydroxide	1310-73-2

California Permissible Exposure Limits for Chemical Contaminants

Sodium hydroxide	1310-73-2
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International Regulations

Montreal Protocol	: Not applicable
Rotterdam Convention (Prior Informed Consent)	: Not applicable
Stockholm Convention (Persistent Organic Pollutants)	: Not applicable

The ingredients of this product are reported in the following inventories:

TCSI	: All intentional components are listed on the inventory, are exempt, or are supplier certified.
TSCA	: All substances listed as active on the TSCA Inventory or are not required to be listed.
AIIC	: All intentional components are listed on the inventory, are exempt, or are supplier certified.
DSL	: All substances contained in this product are listed on the Canadian Domestic Substances List (DSL) or are not required to be listed.
ENCS	: All intentional components are listed on the inventory, are exempt, or are supplier certified.
ISHL	: All intentional components are listed on the inventory, are exempt, or are supplier certified.
KECI	: All intentional components are listed on the inventory, are exempt, or are supplier certified.
PICCS	: All intentional components are listed on the inventory, are exempt, or are supplier certified.
IECSC	: All intentional components are listed on the inventory, are exempt, or are supplier certified.
NZIoC	: All intentional components are listed on the inventory, are exempt, or are supplier certified.
CH INV	: All intentional components are listed on the inventory, are exempt, or are supplier certified.
TECI	: All intentional components are listed on the inventory, are exempt, or are supplier certified.

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

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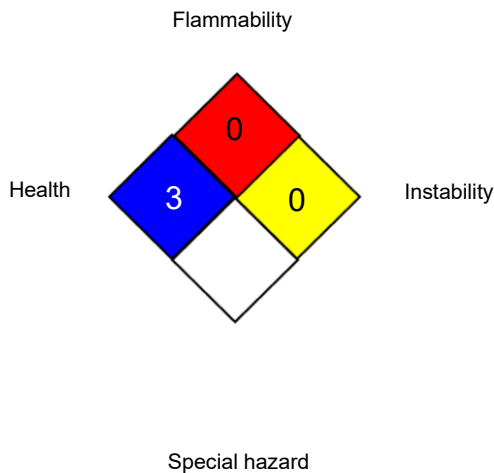
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SECTION 16. OTHER INFORMATION

Further information

NFPA 704:



Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
OSHA P0	:	USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)
OSHA Z-1	:	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
US WEEL	:	USA. Workplace Environmental Exposure Levels (WEEL)
ACGIH / C	:	Ceiling limit
OSHA P0 / C	:	Ceiling limit
OSHA Z-1 / TWA	:	8-hour time weighted average
US WEEL / STEL	:	Short-Term TWA

AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Pre-

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



Sodium Hypochlorite, 5 - 17%

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4.1	06-17-2025	10000001223	Date of first issue: 03-22-2017

vention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECL - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Revision Date : 06-17-2025

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US / Z8