# **SAFETY DATA SHEET**

Issuing Date 18-Sep-2013 Revision Date 18-Sep-2013 Revision Number 0

# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

**GHS** product identifier

Product Name Sodium Hypochlorite 15%

Other means of identification

UN-Number UN1791

Synonyms Liquid Chlorine Bleach, Liquid Bleach

Recommended use of the chemical and restrictions on use

Recommended Use Micrbiocide

Uses advised against No information available

Supplier's details

Supplier Address Surpass Chemical Co Inc 1254 Broadway Albany, NY 12204 518-434-8101

**Emergency telephone number** 

**Company Emergency Phone** 

Number

518-434-8101

**Emergency Telephone** 

Number

Chemtrec 1-800-424-9300

# 2. HAZARDS IDENTIFICATION

### Classification

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

Skin Corrosion/Irritation	Category 1 Subcategory 1B
Serious Eye Damage/Eye Irritation	Category 1

# GHS Label elements, including precautionary statements

### **Emergency Overview**

Signal Word Danger Hazard Statements

• Causes severe skin burns and eye damage



Appearance Greenish-yellow

Physical State Liquid.

Odor Chlorine

### **Precautionary Statements**

#### Prevention

- · Do not breathe dust/fume/gas/mist/vapors/spray
- · Wash face, hands and any exposed skin thoroughly after handling
- Wear protective gloves/protective clothing/eye protection/face protection.

#### **General Advice**

• Immediately call a POISON CENTER or doctor/physician.

#### **Eyes**

- 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.

#### Skin

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

#### Inhalation

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

# Ingestion

• IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

#### Storage

· Store locked up.

### **Disposal**

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

# **Hazard Not Otherwise Classified (HNOC)**

Not applicable

### Other information

Very toxic to aquatic life with long lasting effects

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

# **Synonyms**

Liquid Chlorine Bleach, Liquid Bleach

Chemical Name	CAS-No	Weight %	Trade secret
Sodium hypochlorite	7681-52-9	13.2-14.1	*
Sodium hydroxide	1310-73-2	0.2-0.6	*

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

Description of necessary first-aid measures

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

Immediate medical attention is required.

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

shoes. Immediate medical attention is required.

Inhalation Move to fresh air. If breathing is difficult, give oxygen. If symptoms persist, call a physician.

Ingestion Drink plenty of water. Do NOT induce vomiting. Consult a physician if necessary

Most important symptoms/effects, acute and delayed

Most Important Symptoms/Effects No information available.

Indication of immediate medical attention and special treatment needed, if necessary

**Notes to Physician** Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Cool containers with flooding quantities of water until well after fire is out.

**Small Fires** CO<sub>2</sub>, dry chemical, or water spray.

Large Fires If water is necessary to fight fire, use in flooding quantities.

Unsuitable Extinguishing Media CAUTION: Use of water spray when fighting fire may be inefficient.

**Specific Hazards Arising from the Chemical** 

In case of fire, hazardous concentrations of chlorine may be formed.

**Explosion Data** 

**Sensitivity to Mechanical Impact** None. Sensitivity to Static Discharge None

**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.

### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

**Personal Precautions** Ensure adequate ventilation. In case of insufficient ventilation wear suitable respiratory

equipment. Avoid contact with skin, eyes and clothing. Use personal protective equipment.

**Environmental Precautions** 

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do **Environmental Precautions** 

not allow material to contaminate ground water system. Do not flush into surface water or

sanitary sewer system.

Methods and materials for containment and cleaning up

**Methods for Containment** Dike to contain spill. Suppress vapors with water spray. \_\_\_\_\_\_

#### **Methods for Cleaning Up**

Absorb spilled material with an absorbent material such as clay, sawdust, or sand. Pick up and transfer to properly labeled containers.

# 7. HANDLING AND STORAGE

# Precautions for safe handling

Handling

Handle in accordance with good industrial hygiene and safety practice. Use only in area provided with appropriate exhaust ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Do not take internally. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

# Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Keep at

temperatures below 15-21°C / 60-70°F. Keep away from direct sunlight.

Incompatible Products Iron. Copper. Acids. Ammonium compounds. Organic material. Oxidizing agents.

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

# **Control parameters**

#### **Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sodium hydroxide	Ceiling: 2 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>	IDLH: 10 mg/m <sup>3</sup>
1310-73-2		(vacated) Ceiling: 2 mg/m <sup>3</sup>	Ceiling: 2 mg/m <sup>3</sup>

### Appropriate engineering controls

**Engineering Measures** 

Showers

Eyewash stations Ventilation systems

### Individual protection measures, such as personal protective equipment

Eye/Face Protection Skin and Body Protection Chemical splash goggles.

Respiratory Protection No.

Neoprene gloves.

None required under normal usage. If exposure limits are exceeded or irritation is

experienced, NIOSH/MSHA approved respiratory protection should be worn.

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

# 9. PHYSICAL AND CHEMICAL PROPERTIES

# Information on basic physical and chemical properties

Physical StateLiquidAppearanceGreenish-yellowOdorChlorineOdor ThresholdNo information available

Property Values Remarks/ - Method

рН 12 None known Melting Point/Range No data available None known **Boiling Point/Boiling Range** No data available None known Flash Point No data available None known **Evaporation rate** No data available None known Flammability (solid, gas) No data available None known Flammability Limits in Air

unner flammahility limit No data available

upper flammability limit	No data available	
lower flammability limit	No data available	
Vapor Pressure	No data available	None known
Vapor Density	No data available	None known
Relative Density	No data available	None known
Specific Gravity	1.1980-1.2100	None known
Water Solubility	Miscible with water	None known
Solubility in other solvents	No data available	None known
Partition coefficient: n-octanol/w	raterNo data available	None known
Autoignition Temperature	No data available	None known
Decomposition Temperature	No data available	None known
Viscosity	No data available	None known

Flammable Properties Not flammable

Explosive Properties No data available Oxidizing Properties No data available

Other information

VOC Content (%) No data available

# 10. STABILITY AND REACTIVITY

# Reactivity

No data available.

# **Chemical stability**

Stable under recommended storage conditions.

# Possibility of hazardous reactions

None under normal processing.

# Conditions to avoid

Incompatible products. Keep away from direct sunlight. Excessive heat. Ultraviolet light.

# Incompatible materials

Iron. Copper. Acids. Ammonium compounds. Organic material. Oxidizing agents.

# **Hazardous decomposition products**

Chlorine gas.

# 11. TOXICOLOGICAL INFORMATION

# Information on likely routes of exposure

**Product Information** 

**Inhalation** May cause irritation of respiratory tract.

Eye Contact Causes serious eye damage. Corrosive to the eyes and may cause severe damage

including blindness.

**Skin Contact** Corrosive. Causes severe skin burns.

**Ingestion** Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

### Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** No information available.

# Delayed and immediate effects and also chronic effects from short and long term exposure

**Sensitization** No information available. **Mutagenic Effects** No information available.

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

Chemical Name	ACGIH	IARC	NTP	OSHA
Sodium hypochlorite		Group 3		

Reproductive Toxicity
STOT - single exposure
STOT - repeated exposure
Aspiration Hazard
No information available.
No information available.
No information available.

# Numerical measures of toxicity - Product

**Acute Toxicity** 

The following values are calculated based on chapter 3.1 of the GHS document:

**LD50 Oral** 3546 mg/kg; Acute toxicity estimate

# 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Very toxic to aquatic life with long lasting effects.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Sodium hypochlorite	EC50 24 h: = 0.095 mg/L	LC50 96 h: 0.03 - 0.19 mg/L		EC50 48 h: 0.033 - 0.044
7681-52-9	(Skeletonema costatum)	semi-static (Oncorhynchus		mg/L Static (Daphnia
		mykiss)		magna)
		LC50 96 h: 0.05 - 0.771		EC50 96 h: = 2.1 mg/L
		mg/L flow-through		(Daphnia magna)
		(Oncorhynchus mykiss)		
		LC50 96 h: 0.06 - 0.11 mg/L		
		flow-through (Pimephales		
		promelas)		
		LC50 96 h: 0.18 - 0.22 mg/L		
		static (Oncorhynchus		
		mykiss)		
		LC50 96 h: 0.28 - 1 mg/L		
		flow-through (Lepomis		
		macrochirus)		
		LC50 96 h: 0.4 - 0.8 mg/L		
		static (Lepomis macrochirus)		
		LC50 96 h: 4.5 - 7.6 mg/L		
		static (Pimephales		
		promelas)		
Sodium hydroxide		LC50 96 h: = 45.4 mg/L		
1310-73-2		static (Oncorhynchus		
		mykiss)		

Persistence and Degradability No information available.

**Bioaccumulation** No information available.

# Other Adverse Effects

No information available.

# 13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods Dispose of in accordance with federal, state, and local regulations

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# **Contaminated Packaging** Do not re-use empty containers.

Chemical Name	California Hazardous Waste
Sodium hypochlorite	Toxic Ignitable Reactive
Sodium hydroxide	Toxic Corrosive

# 14. TRANSPORT INFORMATION

DOT

UN1791

Proper shipping name Hypochlorite solutions

Hazard Class 8
Packing Group III

**Reportable Quantity (RQ) Sodium** hypochlorite: RQ kg= 321.99 **UN1791**, Hypochlorite solutions, 8, III, RQ

Emergency Response Guide 15

Number

**TDG** 

UN1791

Proper Shipping Name Hypochlorite solution

Hazard Class 8
Packing Group III

**Description** UN1791, Hypochlorite solution, 8, III

UN-Number UN1791

Proper Shipping Name Hypochlorite solution

Hazard Class 8
Packing Group III

**Description** UN1791, Hypochlorite solution, 8, III

**ICAO** 

UN-Number UN1791

Proper shipping name Hypochlorite solution

Hazard Class 8
Packing Group III

**Description** UN1791, Hypochlorite solution, 8, III

**IATA** 

UN1791

Proper Shipping Name Hypochlorite solution

Hazard Class 8
Packing Group III
ERG Code 8L

**Description** UN1791, Hypochlorite solution, 8, III

IMDG/IMO

UN-Number UN1791

Proper Shipping Name Hypochlorite solution

Hazard Class 8
Packing Group III
EmS No. F-A, S-B

**Description** UN1791, Hypochlorite solution, 8, III

**UN-Number** UN1791

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**Proper Shipping Name** Hypochlorite solution

**Hazard Class** Ш **Packing Group** 

**Classification Code** C9

**Description** UN1791, Hypochlorite solution, 8, III

**ADR** 

UN-Number UN1791

**Proper Shipping Name** Hypochlorite solution

**Hazard Class Packing Group** Ш C9 **Classification Code Tunnel Restriction Code** (E)

ÙN1791, Hypochlorite solution, 8, III, (E) Description

ADR/RID-Labels

Hypochlorite solution **Proper Shipping Name** 

**Hazard Class Packing Group** Ш C9 **Classification Code Special Provisions** 521

Description UN1791, Hypochlorite solution, 8, III

**Limited Quantity** 5 L

# 15. REGULATORY INFORMATION

### **International Inventories**

**TSCA** Complies **DSL** Complies Complies **EINECS IECSC** Complies **KECL** Complies **PICCS** Complies Complies **AICS** 

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

# **U.S. Federal Regulations**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

### SARA 311/312 Hazard Categories

**Acute Health Hazard** Yes **Chronic Health Hazard** No **Fire Hazard** No **Sudden Release of Pressure Hazard** No **Reactive Hazard** No

### **Clean Water Act**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sodium hypochlorite	100 lb			Х

Sodium hydroxide	1000 lb		X

### **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Sodium hypochlorite	100 lb		RQ 100 lb final RQ RQ 45.4 kg final RQ
Sodium hydroxide	1000 lb		RQ 1000 lb final RQ RQ 454 kg final RQ

# **U.S. State Regulations**

# **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

# U.S. State Right-to-Know Regulations

"X" designates that the ingredients are listed on the state right to know list.

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Illinois	Rhode Island
Sodium hypochlorite	X	X	X		
Sodium hydroxide	Х	X	Х		Х

# U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION					
NFPA	Health Hazard 3	Flammability 0	Instability 2	Physical and Chemical Hazards -	
HMIS	<b>Health Hazard</b> 3	Flammability 0	Physical Hazard 2	Personal Protection X	

Prepared By Surpass Chemical Company 1254 Broadway Albany NY 12204

# **General Disclaimer**

The information provided on this SDS 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 Safety Data Sheet** 

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