

Safety Data Sheet

DUCKMONS inc. Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date: 04/15/2015 Supersedes: 04/08/2013 Version: 3.0

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

**Product identifier** 

Product name : Buckman's Sodium Hypochlorite Solution

Product form : Mixture

EPA Reg. No.: 42052-20001

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

Use of the substance/mixture : Cleaning Formulations, Bleaching, Non-pesticide Chemical Manufacturing and Swimming Pool

Water Disinfection

Details of the supplier of the safety data sheet

Buckman's Inc. 105 Airport Road Pottstown, PA 19464-3438 610-495-7495

Emergency telephone number 1.4.

**Emergency number** : CHEMTREC: (800) 424-9300

## **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

**GHS-US** classification Skin Corr. 1A H314

#### Label elements

#### **GHS-US** labelling

Hazard pictograms (GHS-US)



Signal word (GHS-US) Danger

Hazard statements (GHS-US) : H314 - Causes severe skin burns and eye damage

Precautionary statements (GHS-US) P260 - Do not breathe vapours, mist, fume P264 - Wash hands, forearms and face thoroughly after handling

P280 - Wear eye protection, protective gloves

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 - IF INHALED: Remove person to fresh air and keep comfortable for breathing P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing

P310 - Immediately call a doctor, a poison center

P321 - Specific treatment (see Wash hands and other exposed areas with mild soap and water

before eating, drinking or smoking and when leaving work on this label)

P363 - Wash contaminated clothing before reuse

P405 - Store locked up

P501 - Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste

#### 2.3. Other hazards

No additional information available

#### 2.4. Unknown acute toxicity (GHS US)

No data available

# **SECTION 3: Composition/information on ingredients**

#### 3.1. Substance

Not applicable

#### 3.2. Mixture

Name	Product identifier	%
Sodium hypochlorite	(CAS No) 7681-52-9	12.5 - 15
Sodium hydroxide	(CAS No) 1310-73-2	1 - 5

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### **SECTION 4: First aid measures**

#### Description of first aid measures

First-aid measures general : If exposed or concerned, get medical attention/advice. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use. Never give anything to an

unconscious person.

First-aid measures after inhalation : IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Get

medical attention if breathing is affected. If breathing is difficult, supply oxygen.

First-aid measures after skin contact : IF ON SKIN (or clothing): Remove affected clothing and wash all exposed skin with water for at

least 15 minutes. Get medical attention immediately.

First-aid measures after eye contact : IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Remove contact

lenses if present and easy to do so. Get medical attention immediately. Continue rinsing.

First-aid measures after ingestion : IF SWALLOWED: rinse mouth thoroughly. Do not induce vomiting without advice from poison

control center or medical professional. Get medical attention if you feel unwell.

#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : Causes severe skin burns and eye damage.

Symptoms/injuries after inhalation : May cause respiratory irritation.

Symptoms/injuries after skin contact : Highly corrosive to skin. Symptoms/injuries after eye contact : Causes serious eye damage. Symptoms/injuries after ingestion : May cause gastrointestinal irritation.

### Indication of any immediate medical attention and special treatment needed

No additional information available

# **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media : Carbon dioxide. Foam. Dry powder. Sand. Water spray.

#### 5.2. Special hazards arising from the substance or mixture

Fire hazard : May cause fire or explosion; strong oxidizer.

Explosion hazard : Product is not explosive.

Reactivity : Acid contamination will produce very irritating fumes similar to chlorine.

#### Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Do not dispose of fire-fighting water in the environment. Prevent human exposure

to fire, fumes, smoke and products of combustion.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures

: Evacuate area. Keep upwind. Ventilate area. Spill should be handled by trained clean-up crews properly equipped with respiratory equipment and full chemical protective gear (see Section 8).

#### 6.1.1. For non-emergency personnel

Protective equipment : Wear protective equipment as described in Section 8.

**Emergency procedures** : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

Protective equipment : Wear suitable protective clothing, gloves and eye or face protection. Approved supplied-air

respirator, in case of emergency.

#### 6.2. **Environmental precautions**

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

# Methods and material for containment and cleaning up

For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or

Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Do not use sawdust or other combustible materials to absorb hypochlorite solutions. Dilute with plenty of water. Reduce with agents such as bisulfiites or ferrous salt solutions. Wash spill area thoroughly with plenty of soap and water. Place in a polyethylene container for disposal in accordance with the waste regulations (see Section 13).

# Reference to other sections

No additional information available

Methods for cleaning up

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# **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Precautions for safe handling :

: Do not handle until all safety precautions have been read and understood. Provide good ventilation in process area to prevent formation of vapor. Do not breathe vapors, mist. Avoid contact with skin, eyes and clothing. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

# 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in dry, well-ventilated area. Keep container closed when not in use. Stability decreases

upon exposure to heat and light. Store in a dark area.

Incompatible materials : Heavy metals. Reducing agents. Organic material. Acids. Ether.

# **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

Sodium hydroxide (1310-73-2)		
ACGIH Ceiling (mg/m³)	2	
OSHA PEL (TWA) (mg/m³)	2	
OSHA PEL (Ceiling) (mg/m³)	2	
Sodium hypochlorite (7681-52-9)	•	
Remark (ACGIH)	OELs not established	
Remark (OSHA)	OELs not established	

### 8.2. Exposure controls

Appropriate engineering controls : Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust

ventilation or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof equipment with flammable materials. Ensure adequate

ventilation, especially in confined areas.

Personal protective equipment : Gloves. Wear chemical goggles and face shield in combination. Protective clothing.



Hand protection : Use gloves chemically-resistant to this material when prolonged or repeated contact could

occur. Gloves should be classified under Standard EN 374 or ASTM F1296. Suggested glove materials are: Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl. Change contaminated gloves immediately. Suitable gloves for this specific

application can be recommended by the glove supplier.

Eye protection : Wear eye protection, including chemical splash goggles and a face shield when possibility exists for eye contact due to spraying liquid or airborne particles. Chemical goggles and face

exists for eye contact due to spraying liquid or airborne particles. Chemical goggles and facilished must be worn in combination.

shed must be worn in combination.

Skin and body protection : Wear long-sleeves, and chemically impervious PPE/coveralls to minimize bodily exposure.

Respiratory protection : Use NIOSH-approved dust/particulate respirator. Where vapor, mist, or dust exceed PELs or

other applicable OELs, use NIOSH-approved respiratory protective equipment.

# **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

Physical state : Liquid

Color : Colorless. Light yellow-green.

Odor : Chlorine-like.
Odor Threshold : No data available
pH : 12 @ 100 g/L
Relative evaporation rate (butylacetate=1) : No data available
Melting point : No data available

Freezing point : -20 °C (-3 °F) Approximately
Boiling point : > 110 °C (230 °F) Decomposes

Flash point : No data available
Auto-ignition temperature : No data available
Decomposition temperature : No data available
Flammability (solid, gas) : No data available

Vapour pressure : 12.1 mm Hg @ 20 °C (68 °F)

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Relative vapour density at 20 °C : No data available

Relative density : 1.2

Solubility Water: 100 % Log Pow : No data available Log Kow : No data available Viscosity, kinematic : No data available Viscosity, dynamic : No data available Explosive properties : No data available Oxidising properties : No data available **Explosive limits** : No data available

### 9.2. Other information

No additional information available

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Acid contamination will produce very irritating fumes similar to chlorine.

#### 10.2. Chemical stability

Stability decreases with concentration, heat, light, decrease in pH and contamination by metals.

### 10.3. Possibility of hazardous reactions

Sodium hypochlorite and its solutions decompose when heated. Decomposition products may cause container to rupture.

#### 10.4. Conditions to avoid

Heat. Direct sunlight.

#### 10.5. Incompatible materials

Heavy metals. Reducing agents. Organic materials. Acids. Ether.

### 10.6. Hazardous decomposition products

Acid fumes.

# **SECTION 11: Toxicological information**

# 11.1. Information on toxicological effects

Acute toxicity : Not classified

1350 mg/kg	
8200 mg/kg	
10000 mg/kg	
	8200 mg/kg

Skin corrosion/irritation : Causes severe skin burns.

pH: 12 @ 100 g/L

Serious eye damage/irritation : Causes serious eye damage.

pH: 12 @ 100 g/L : Not classified

Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
Specific target organ toxicity (single exposure) : Not classified
Specific target organ toxicity (repeated exposure)

Aspiration hazard : Not classified

Symptoms/injuries after inhalation : May cause respiratory irritation.

Symptoms/injuries after skin contact : Highly corrosive to skin.

Symptoms/injuries after eye contact : Causes serious eye damage.

Symptoms/injuries after ingestion : May cause gastrointestinal irritation.

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### SECTION 12: Ecological information

12.1. Toxicity

: No information available. Ecology - general

#### 12.2. Persistence and degradability

<b>Buckman's Sodium Hypochlorite Solution</b>	
Persistence and degradability	No information available.

#### Bioaccumulative potential

No additional information available

# Mobility in soil

No additional information available

#### Other adverse effects

No additional information available

# **SECTION 13: Disposal considerations**

#### Waste treatment methods

Waste treatment methods

: Do not discharge to public wastewater systems without permit of pollution control authorities.

No discharge to surface waters is allowed without an NPDES permit.

Waste disposal recommendations

: Dispose in a safe manner in accordance with local/national regulations. Do not allow the

product to be released into the environment.

### **SECTION 14: Transport information**

In accordance with DOT

Transport document description

: UN1791 Hypochlorite Solutions, 8, III

UN-No.(DOT)

: 1791

DOT NA no.

: UN1791

Proper Shipping Name (DOT)

: Hypochlorite Solutions

Department of Transportation (DOT) Hazard Classes

: 8 - Class 8 - Corrosive material 49 CFR 173.136

: 8 - Corrosive



Packing group (DOT)

: III - Minor Danger

Hazard labels (DOT)

DOT Quantity Limitations Passenger aircraft/rail : 5 L

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 60 L

CFR 175.75)

**DOT Vessel Stowage Location** 

: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a

passenger vessel.

**DOT Vessel Stowage Other** 

: 40 - Stow "clear of living quarters"

Additional information

Other information

: No supplementary information available.

# Transport by sea

No additional information available

### Air transport

No additional information available

# **SECTION 15: Regulatory information**

### 15.1. US Federal regulations

Buckman's Sodium Hypochlorite Solution		
All chemical substances in this product are listed in the EPA (Environment Protection Agency) TSCA (Toxic Substances Control Act) Inventory		
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard	

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Sodium hydroxide (1310-73-2)	
CERCLA RQ (Reportable quantity, of EPA's List of Lists):	1000 lb
Sodium hypochlorite (7681-52-9)	
CERCLA RQ (Reportable quantity of EPA's List of Lists):	100 lb

### 15.2. International regulations

No additional information available.

# 15.3. US State regulations

#### California Proposition 65

This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm.

### Sodium hydroxide (1310-73-2)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List

# Sodium hypochlorite (7681-52-9)

- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Massachusetts Right To Know List
- U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List
- U.S. Pennsylvania RTK (Right to Know) List

# **SECTION 16: Other information**

Indication of changes : Revision 3.0. Revision date : 04/15/2015 Other information : Author: BCS.

NFPA health hazard : 3 - Short exposure could cause serious temporary or

residual injury even though prompt medical attention was

NFPA fire hazard : 0 - Materials that will not burn.

NFPA reactivity : 1 - Normally stable, but can become unstable at elevated

temperatures and pressures or may react with water with

some release of energy, but not violently.



# **HMIS III Rating**

Health : 3 Flammability : 0 Physical : 1 Personal Protection

The information contained herein is offered only as a guide to the handling of this specific material and has been prepared in good fiath by technically knowledgeable personnel. It is not intended to be all-inclusive and the manner and conditions of use and handling may involve other and additional considerations. No warranty of any kind is given or implied and Manufacturer or Seller will not be liable for any damages, losses, injuries or consequential damages that may result from the use of or reliance on any information contained herein.