

SAFETY DATA SHEET

SDS00222
Bleach 6%

Preparation Date: 04/Aug/2017

Version: 2

1. IDENTIFICATION

Product identifier

Product Name Bleach 6%

Other means of identification

Product Code(s) SDS00222

Synonyms Sodium oxychloride; Soda bleach liquor; Javel water; Clorox; Javex.

Recommended use of the chemical and restrictions on use

Recommended Use Chemical intermediate Bleaching agent Laboratory reagent. Pulp and paper. Water treatment. Disinfectant

Restricted Uses No information available

Initial Supplier Identifier

Double B Automotive / Bloomco
5035 North Service Rd Unit B1
Burlington, ON L7L 5V2
Telephone: 1-800-667-9168

Emergency telephone number

24 Hour Emergency Phone Number (CANUTEC): 1-888-226-8832 (1-888-CAN-UTEC)

2. HAZARD IDENTIFICATION

Hazardous Classification of the substance or mixture

Corrosive to metals	Category 1
Skin corrosion/irritation	Category 1
Sub-category B	
Serious eye damage/eye irritation	Category 1

Label elements

Hazard pictograms



Signal Word: Danger Hazard statements

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

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

Immediately call a POISON CENTER or doctor

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing

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

IF INHALED: Remove person to fresh air and keep comfortable for breathing

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

Storage

Store locked up
Store in a well-ventilated place. Keep container tightly closed

Disposal

Dispose of contents/container to an approved waste disposal plant

Other Information

Very toxic to aquatic life with long lasting effects

Unknown acute toxicity No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Not applicable.

Mixture

Chemical Name	CAS No	Weight-%	Synonyms
Water	7732-18-5	80 - 90%	Water
Sodium Hypochlorite, Solution	7681-52-9	10 - 20%	Sodium Hypochlorite, Solution

4. FIRST AID

Description of first aid measures

General advice

Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.

Inhalation

Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical attention immediately. 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. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary edema may occur.

Eye contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.

Skin contact

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get immediate medical advice/attention.

Ingestion

Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Get immediate medical advice/attention.

Self-protection of the first aider

Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Wear personal protective clothing (see section 8).

Most important symptoms and effects, both acute and delayed:

Causes irritation of the mouth, nose and throat. Corrosive Causes burns to the mouth, throat and stomach. May cause severe skin irritation. Corrosive to the respiratory passage. Corrosive to eye tissue and may cause severe damage and blindness. Causes vomiting, nausea, and diarrhea. Repeated and/or prolonged exposures may cause productive cough, running nose, bronchopneumonia, pulmonary edema (fluid build-up in lungs) and reduction of pulmonary function. Coma, shock and death may occur. May cause whitening or bleaching of the skin. If mixed with acids or warmed to temperatures greater than 40 °Celsius, Sodium hypochlorite solutions release chlorine gas. This gas can cause severe irritation of the nose and throat. Exposures to high levels of chlorine gas may result in severe lung damage. Prolonged contact may lead to burns and blisters and may aggravate dermatitis.

Indication of any immediate medical attention and special treatment needed:

Note to physicians

Due to the severely irritating or corrosive nature of the material, swallowing may lead to ulceration and inflammation of the upper alimentary tract with hemorrhage and fluid loss. Also, perforation of the esophagus or stomach may occur, leading to mediastinitis or peritonitis and the resultant complications.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing media appropriate for surrounding fire.

Specific hazards arising from the substance or mixture

Closed containers may explode in fire. Keep containers cool to prevent rupture and release of material. Spilled material may cause floors and contact surfaces to become slippery.

Hazardous combustion products

Chlorine. Oxides of sodium. Oxygen. When heated to decomposition, it emits acrid smoke and irritating fumes.

Special protective equipment for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Attention! Corrosive material. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Should not be released into the environment. Do not allow to enter into soil/subsoil. Prevent product from entering drains. **Methods and materials for containment and cleaning up**

Prevent further leakage or spillage if safe to do so.

7. HANDLING AND STORAGE

Precautions for safe handling

For industrial use only. Handle and open containers with care. Avoid contact with eyes, skin and clothing. Do not ingest. Avoid inhalation of chemical. Empty containers may contain hazardous product residues. Keep the containers closed when not in use. Protect against physical damage. Use appropriate personnel protective equipment. When diluting, add this product to water in small amounts to avoid splattering. Never add water to this material.

Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well ventilated area, away from heat and ignition sources. Keep away from direct sunlight. Do not freeze. Store away from organic chemicals, strong bases, metal powders, carbides, sulfides, and any readily oxidizable material. Storage area should be equipped with corrosion-resistant floors, sumps and should have controlled drainage to a recovery tank. Store below 29 °C. Store in a sealed polyethylene lined container.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Limits

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

Chemical Name	Alberta OEL	British Columbia OEL	Ontario	Quebec OEL	Exposure Limit - ACGIH	Immediately Dangerous to Life or Health - IDLH
Water 7732-18-5	Not available	Not available	Not available	Not available	Not available	Not available
Sodium Hypochlorite, Solution 7681-52-9	Not available	Not available	Not available	Not available	Not available	Not available

Consult local authorities for recommended exposure limits

Appropriate engineering controls

Engineering controls

Local exhaust ventilation as necessary to maintain exposures to within applicable limits. Make up air should always be supplied to balance air exhausted (either generally or locally). Ventilation required when spraying or applying in a confined area. Ventilation should be explosion proof. Eliminate ignition sources.

Individual protection measures, such as personal protective equipment

Eye/face protection

Chemical safety goggles and/or full face shield to protect eyes and face, if product is handled such that it could be splashed into eyes.

Hand protection

Nitrile gloves. Neoprene gloves. Impervious gloves. Rubber gloves.

Skin and body protection

Neoprene coated apron or chemical resistant clothing. Impervious boots.

Respiratory protection

NIOSH approved supplied air respirator when airborne concentrations exceed exposure limits. Wear a NIOAH approved full facepiece respirator for acid gases or a self-contained breathing apparatus for air concentration levels up to 5 ppm.

General hygiene considerations

Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Physical state	Liquid	
Color		Clear Green to yellow.	
Odor		Chlorine	
Odor threshold		No information available	
PROPERTIES	Values	pH	Remarks • Method
Melting point / freezing point		11.5 - 13	
		-25 °C / -13 °F	
Initial 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 Limit in Air Upper flammability limit:		No data available	none known
Lower flammability limit:		No data available	
Vapor pressure		17.5 mmHg	
Relative vapor density		No data available	none known
Specific Gravity		1.175	
Water solubility		Soluble in water	
Solubility in other solvents		No data available	
Partition coefficient		No data available	none known
Autoignition temperature		No data available	none known
Decomposition temperature		No data available	none known
Kinematic viscosity		No data available	none known

Dynamic viscosity

Explosive properties	No information available.
Oxidizing properties	No information available.
Molecular weight	No information available
VOC Percentage Volatility	No information available
Liquid Density	No information available
Bulk density	No information available

10. STABILITY AND REACTIVITY

Reactivity/Chemical Stability Unstable
above 40°C / 104 °F.

Possibility of hazardous reactions

Hypochlorites may react with primary amines to form nitrogen trichloride which explodes spontaneously in air. Hypochlorite bleach reacts with urea to form nitrogen trichloride which explodes spontaneously in air. Some metals accelerate the decomposition of Sodium Hypochlorite. Nickel. Copper. Tin. Iron and its alloys. Manganese.

Hazardous polymerization Will
not occur.

Conditions to avoid

High temperatures. Exposure to light.

Incompatible materials

Strong oxidizers. Acids. Reducing agents. Ammonia. Metals.

Hazardous decomposition products

Chlorine. Oxides of sodium. Oxygen. When heated to decomposition, it emits acrid smoke and irritating fumes.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation

Causes irritation of the mouth, nose and throat. Corrosive to the respiratory passage. Repeated and/or prolonged exposures may cause productive cough, running nose, bronchopneumonia, pulmonary edema (fluid build-up in lungs) and reduction of pulmonary function. If mixed with acids or warmed to temperatures greater than 40 °Celsius, Sodium hypochlorite solutions release chlorine gas. This gas can cause severe irritation of the nose and throat. Exposures to high levels of chlorine gas may result in severe lung damage.

Eye contact

Corrosive to eye tissue and may cause severe damage and blindness.

Skin contact

Corrosive. May cause severe skin irritation. May cause whitening or bleaching of the skin. Prolonged contact may lead to burns and blisters and may aggravate dermatitis.

Ingestion

Causes burns to the mouth, throat and stomach. Corrosive. Causes vomiting, nausea, and diarrhea. Coma, shock and death may occur.

Information on toxicological effects

Symptoms

Corrosive effects on the skin and eyes may be delayed, and damage may occur without the sensation or onset of pain. Aspiration may cause lung damage.

Numerical measures of toxicity

Acute toxicity

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

ATEmix (oral) 68,333.00 mg/kg
 ATEmix (dermal) 83,417.00 mg/kg

Unknown acute toxicity No information available

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Water 7732-18-5	> 90 mL/kg (Rat)	Not available	Not available
Sodium Hypochlorite, Solution 7681-52-9	= 8200 mg/kg (Rat)	> 10000 mg/kg (Rabbit)	Not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation

Corrosive. May cause severe skin irritation. May cause whitening or bleaching of the skin. Prolonged contact may lead to burns and blisters and may aggravate dermatitis.

Serious eye damage/eye irritation

Corrosive to eye tissue and may cause severe damage and blindness.

Respiratory or skin sensitization No

information available.

Germ cell mutagenicity No

information available.

Carcinogenicity

No information available.

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

Chemical Name	ACGIH	IARC	NTP	OSHA
Water 7732-18-5	Not available	Not available	Not available	Not available
Sodium Hypochlorite, Solution 7681-52-9	Not available	Group 3	Not available	Not available

Legend

IARC (International Agency for Research on Cancer)
 Group 3 - Not Classifiable as to Carcinogenicity in Humans

Reproductive toxicity No
 information available.

Specific target organ systemic toxicity - single exposure No
 information available.

Specific target organ systemic toxicity - repeated exposure No
 information available.

Aspiration hazard
 No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Ecotoxicity - Freshwater Algae Data	Ecotoxicity - Fish Species Data	Toxicity to microorganisms	Crustacea
Water 7732-18-5	Not available	Not available	Not available	Not available
Sodium Hypochlorite, Solution 7681-52-9	Not available	0.03 - 0.19 mg/L LC50 (Oncorhynchus mykiss) 96 h semi-static 0.05 - 0.771 mg/L LC50 (Oncorhynchus mykiss) 96 h flow-through 0.06 - 0.11 mg/L LC50 (Pimephales promelas) 96 h flow-through 0.18 - 0.22 mg/L LC50 (Oncorhynchus mykiss) 96 h static 0.28 - 1 mg/L LC50 (Lepomis macrochirus) 96 h flow-through 0.4 - 0.8 mg/L LC50 (Lepomis macrochirus) 96 h static 4.5 - 7.6 mg/L LC50 (Pimephales promelas) 96 h static	Not available	EC50: 0.033 - 0.044mg/L (48h, Daphnia magna)

Persistence and degradability No information available.

Bioaccumulation No information available.

Chemical Name	Partition coefficient
Water 7732-18-5	Not available
Sodium Hypochlorite, Solution 7681-52-9	Not available

Other adverse effects No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Do not reuse empty containers.

14. TRANSPORT INFORMATION

TDG (Canada): UN

Number UN1791
Shipping name HYPOCHLORITE SOLUTION
Class 8
Packing Group III
Marine pollutant Not available.

DOT (U.S.)

UN Number UN1791
Shipping name HYPOCHLORITE SOLUTION
Class 8
Packing Group III
Marine pollutant Not available

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

NSF International



Additional information

Maximum use for potable water 97 mg/L. Only products bearing the NSF Mark on the product, product packaging, and/or documentation shipped with the product are Certified.

U.S. Regulatory Rules

Chemical Name	CERCLA/SARA - Section 302:	SARA (311, 312) Hazard Class:	CERCLA/SARA - Section 313:
Water - 7732-18-5	Not Listed	Not Listed	Not Listed
Sodium Hypochlorite, Solution 7681-52-9	Not Listed	Listed	Not Listed

International Inventories

TSCA Complies DSL/NDSL Complies

Legend:

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

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

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

NFPA: _____ Health hazards 3 Flammability 0 Instability 0 Physical and chemical properties -
HMIS Health Rating: Health hazards 3 Flammability 0 Physical hazards 0 Personal protection X

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)
Ceiling Maximum limit value * Skin designation

Prepared By: The Environment, Health and Safety Department of Univar Canada Ltd.

Preparation Date: 04/Aug/2017

Revision Date: 04/Aug/2017

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