


# Safety Data Sheet

Section 1. Identification		
<b>Product Identifier</b>	<b>Bleach 12%</b>	<b>Version: 7</b> <b>Effective Date: 10 July, 2017</b>
<b>Other Means Of Identification</b>	None	
<b>Supplier/Manufacturer</b>	Chemfax Products Ltd. 11444 – 42 Street SE Calgary, AB T2C 5C4 Tel: 403-287-2055	
<b>Recommended Use and Restrictions on Use</b>	Sanitizer, bleaching agent. Do not mix with acids or amines	
<b>Product Family</b>	Inorganic salt	
<b>24 Hour Emergency</b>	Canutec (613) 996-6666	

Section 2. Hazard Identification	
<b>Hazard Classification</b>	 <p>Skin Corrosion/Irritation – Category 1            Eye Damage/Irritation- Category 1</p>
<b>Signal Word</b>	Danger
<b>Hazard Statement</b>	Causes severe skin burns and serious eye damage.
<b>Precautionary Prevention Statement</b>	Do not inhale mist. Wash hands thoroughly after handling. Wear protective gloves, clothing, eye and face protection.
<b>Precautionary Response Statement</b>	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower if on clothing. Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing. Immediately call a doctor Specific Treatment: do not induce vomiting unless directed by medical personnel.



# Safety Data Sheet

<b>Precautionary Storage Statement</b>	Store locked up
<b>Precautionary Disposal Statement</b>	Dispose of contents/container in accordance with local regulations.
<b>Other Hazards</b>	None

## Section 3. Composition / Information on Ingredients

Chemical Name	Common Name or Synonyms	CAS NO. and Other Unique Identifiers	% by weight
Sodium hypochlorite	Bleach	7681-52-9	10 - 20

## Section 4. First-Aid Measures

<b>Eye Contact</b>	Flush eyes with water for 30 minutes until no chemical remains. Seek immediate medical attention.
<b>Skin Contact</b>	Flush area with water. If irritation persists seek medical attention. Launder clothing before reuse.
<b>Inhalation</b>	Remove victim to fresh air. If there is difficulty breathing, seek immediate medical attention.
<b>Ingestion</b>	Rinse mouth with water. Do not induce vomiting. Lay victim on left side to prevent aspiration of any vomit. Seek immediate medical attention.
<b>Most Important Symptoms and Effects Both Acute and Delayed</b>	Stinging and irritation of eyes.
<b>Immediate Medical Attention and Special Treatment</b>	Rinse with plenty of water. Treat symptomatically.

## Section 5. Fire-Fighting Measures

<b>Suitable and Unsuitable Extinguishing Media</b>	Use extinguishing media suitable for the surrounding fire
<b>Hazardous Combustion Products</b>	Chlorine, oxygen, and sodium oxides
<b>Specific Hazards Arising From the Product</b>	None known

## Safety Data Sheet

<b>Special Protective Equipment and Precautions for Fire-Fighters</b>	Fire-fighters should wear a self-contained breathing apparatus and full protective clothing. Use water spray to cool containers and structures exposed to fire.
---	---

Section 6. Accidental Release Measures	
<b>Personal Precautions, Protective Equipment and Emergency Procedures</b>	Chemical resistant (rubber, neoprene) gloves, coveralls, footwear and safety glasses. Clear area of all unprotected personnel. If contamination of sewers or waterways has occurred, advise local emergency services.
<b>Environmental Precautions</b>	Do not allow material to enter surface drains and watercourses
<b>Methods and Materials for Containment and Clean-Up</b>	Ventilate area, dike large spills, pump up and place in containers for disposal. Soak up residues or small spills and scoop into containers. Flush area with water to remove residues which may leave a slippery film.

Section 7. Handling and Storage	
<b>Precautions For Safe Handling</b>	Handle with care. Keep containers closed when not in use. Empty containers may contain hazardous residues. Never add water to this product, when diluting add small amounts of product to water to avoid splattering.
<b>Conditions For Safe Storage</b>	Store in a cool dry place, locked up and away from direct sunlight. Store below 29°C. Product segregation should be practiced.

Section 8. Exposure Controls / Personal Protection				
<b>Control Parameters</b>	<b>TWA: 8 Hr</b>	<b>STEL: 15 min</b>	<b>Ceiling</b>	<b>IDLH *</b>
Sodium hypochlorite	0.5 ppm as for chlorine	-	-	-
<b>Exposure Controls</b>	Local exhaust ventilation			
<b>Appropriate Engineering Controls</b>	Ensure ventilation is adequate and that air concentrations of components are controlled below quoted Workplace Exposure Standards. Keep containers closed when not in use. Ensure eye wash station and safety shower are available.			
<b>Individual Protective Measures</b>				
<b>Eye /Face Protection</b>	Safety glasses			
<b>Skin Protection</b>	Chemical resistant (neoprene) gloves, coveralls and footwear			
<b>Respiratory Protection</b>	Air purifying respirator fitted with appropriate cartridges			

# Safety Data Sheet

Section 9. Physical and Chemical Properties	
<b>Appearance</b>	Clear green to yellow liquid
<b>Odour</b>	Strong chlorine odour
<b>Odour Threshold</b>	Not available.
<b>pH</b>	12-13
<b>Flash Point</b>	N/A
<b>Boiling Point and Boiling Range</b>	Decomposes at 40°C
<b>Melting Point / Freezing Point</b>	-25°C
<b>Evaporation Rate</b>	Not determined
<b>Flammability (solid, gas)</b>	N/A
<b>Upper and Lower Flammability or Explosive Limits</b>	No data
<b>Vapour Pressure</b>	12.1 mm Hg @ 20°C
<b>Vapour Density</b>	Not Determined
<b>Relative Density</b>	1.21
<b>Solubility</b>	Soluble
<b>Partition co-efficient, n-Octanol/Water</b>	No data
<b>Auto-ignition Temperature</b>	No data
<b>Decomposition Temperature</b>	No data
<b>Viscosity</b>	No data

Section 10. Stability and Reactivity	
<b>Reactivity</b>	Contact with acids liberates toxic gas.
<b>Chemical Stability</b>	Unstable above 40 °C
<b>Possibility of Hazardous Reactions</b>	It may react with aluminium producing flammable hydrogen gas
<b>Conditions to Avoid</b>	High temperatures. Exposure to light.
<b>Incompatible Materials</b>	Acids, ammonia, strong oxidizers, reducing agents, and metals
<b>Hazardous Decomposition Products</b>	When heated to decomposition, it emits acrid smoke, irritating fumes, chlorine, oxygen, and sodium oxides. Hypochlorites may react with primary amines to form Nitrogen Trichloride, which spontaneously explodes when exposed to light, heat, moderate shock, and organic compounds. Some metals may accelerate the decomposition of Sodium hypochlorite (i.e. nickel, copper, tin, iron and its alloys, and manganese)

# Safety Data Sheet

<b>Section 11. Toxicological Information</b>			
<b>Component Toxicity</b>	<b>LD50 Oral</b>	<b>LD50 Dermal</b>	<b>LC50 Inhalation</b>
Sodium Hypochlorite	8200mg/kg (Rat)	10000mg/kg (Rabbit)	No data
<b>Likely Routes of Exposure</b>			
<b>Skin:</b>	May be corrosive. May cause whitening or bleaching of the skin.		
<b>Eyes:</b>	Can cause irritation and damage to eyes.		
<b>Inhalation:</b>	May cause irritation of the upper respiratory tract. Repeated and prolonged exposure may cause cough, running nose, bronchopneumonia, pulmonary oedema (fluid in the lungs) and reduction of lung function. Mixing with acids or at elevated temperatures, sodium hypochlorite releases chlorine gas. Chlorine gas causes severe irritation of the nose and throat, exposure to high levels of chlorine gas may result in severe lung damage.		
<b>Ingestion:</b>	May be irritating to mouth, throat and stomach. May cause vomiting, nausea and diarrhoea. Coma, shock and death may occur.		
<b>Acute Toxicity Estimates (ATE)</b>	Not classified		
<b>STOT (Specific Target Organ Toxicity) – Single Exposure</b>	Not classified		
<b>Aspiration Toxicity</b>	Not classified		
<b>STOT (Specific Target Organ Toxicity) – Repeated Exposure</b>	Not classified		
<b>Skin Corrosion / Irritation</b>	Causes severe skin burns and eye damage.		
<b>Serious Eye Damage / Irritation</b>	Causes serious eye damage.		
<b>Respiratory or Skin Sensitization</b>	Not classified		
<b>Carcinogenicity</b>	IARC – Group 3 (sodium hypochlorite solution).		
<b>Reproductive Toxicity</b>			
- <b>Sexual Function and Fertility</b>	Not classified		
- <b>Development of Offspring</b>	Not classified		
- <b>Effects on or via Lactation</b>	Not classified		
<b>Germ Cell Mutagenicity</b>	Not classified		
<b>Interactive Effects</b>	Not classified		
<b>Other Information</b>	None known		

## Safety Data Sheet

<b>Section 12. Ecological Information</b>	
<b>Ecotoxicity</b>	Sodium hypochlorite LC50: 0.22 – 0.62 mg/L (Pimephales promelas) EC50: 0.095 mg/L (Skeletonema costatum)
<b>Persistence and Degradability</b>	Will not persist
<b>Bioacumulative Potential</b>	Not available
<b>Biodegradability</b>	Not available
<b>Mobility in Soil</b>	Not available
<b>Special Remarks</b>	Harmful to aquatic life at low concentrations. Toxicity is primarily associated with its oxidant character.
<b>Other Adverse Effects</b>	None known

<b>Section 13. Disposal Considerations</b>	
<b>Disposal Considerations</b>	Dispose of in accordance with local, provincial and national regulations.

<b>Section 14. Transport Information</b>	
<b>UN Number</b>	UN1791
<b>UN Proper Shipping Name</b>	Hypochlorite Solutions
<b>Transport Hazard Class(es)</b>	8
<b>Packaging Group</b>	III
<b>Environmental Hazards</b>	Not applicable
<b>Bulk Transport</b>	Not applicable
<b>Special Precaution</b>	Not applicable
<b>DOT Erg#</b>	154

<b>Section 15. Regulatory Information</b>	
<b>Canada – DSL Inventory</b>	All components of this product are either on the Domestic Substances List (DSL), Non-Domestic Substances List (NDSL), or exempt
<b>TSCA</b>	All components of this product are either on the Toxic Substances Control Act (TSCA) Inventory List or exempt
<b>Additional Information</b>	None

# Safety Data Sheet

<b>Section 16. Other Information</b>	
<b>NFPA Rating</b>	Health-2/ Flammability-0/Reactivity-2/Special Hazard-Not applicable
<b>HMIS Rating</b>	Health-2/Flammability-0/Reactivity-2/Personal Protection-See Section 8.
<b>Prepared by:</b>	Chemfax Products Ltd., Technical Department
<b>Date Prepared:</b>	13 January, 2012
<b>Date of Latest Revision:</b>	10 July, 2017
<p><b>Disclaimer</b>            Notice to reader</p> <p>To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.</p> <p>Chemfax Products Ltd. expressly disclaims all expressed or implied warranties of merchantability and fitness for a particular purpose with respect to the product provided.</p>	