


Safety Data Sheet

Section 1. Identification	
Product Identifier	Bleach 12%
	Version: 8 Effective Date: 25 January 2021
Other Means Of Identification	None
Supplier/Manufacturer	Chemfax Products Ltd. 11444 – 42 Street SE Calgary, AB T2C 5C4 Tel: 403-287-2055
Recommended Use and Restrictions on Use	Sanitizer, bleaching agent. Do not mix with acids or amines
Product Family	Inorganic salt
Emergency Phone	1-855-887-2055 Monday - Friday 8:00am - 4:30pm MST

Section 2. Hazard Identification	
Hazard Classification	 <p>Skin Corrosion/Irritation – Category 1 Eye Damage/Irritation- Category 1</p>
Signal Word	Danger
Hazard Statement	Causes severe skin burns and serious eye damage.
Precautionary Prevention Statement	Do not inhale mist. Wash hands thoroughly after handling. Wear protective gloves, clothing, eye and face protection.
Precautionary Response Statement	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.



Manufacturer of Specialty Chemicals

Safety Data Sheet

Precautionary Storage Statement	Store locked up
Precautionary Disposal Statement	Dispose of contents/container in accordance with local regulations.
Other Hazards	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

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

Section 5. Fire-Fighting Measures

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

Safety Data Sheet

Special Protective Equipment and Precautions for Fire-Fighters	Fire-fighters should wear a self-contained breathing apparatus and full protective clothing. Use water spray to cool containers and structures exposed to fire.
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Section 6. Accidental Release Measures	
Personal Precautions, Protective Equipment and Emergency Procedures	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.
Environmental Precautions	Do not allow material to enter surface drains and watercourses
Methods and Materials for Containment and Clean-Up	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	
Precautions For Safe Handling	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.
Conditions For Safe Storage	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				
Control Parameters	TWA: 8 Hr	STEL: 15 min	Ceiling	IDLH *
Sodium hypochlorite	0.5 ppm as for chlorine	-	-	-
Exposure Controls	Local exhaust ventilation			
Appropriate Engineering Controls	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.			
Individual Protective Measures				
Eye /Face Protection	Safety glasses			
Skin Protection	Chemical resistant (neoprene) gloves, coveralls and footwear			
Respiratory Protection	Air purifying respirator fitted with appropriate cartridges			

Safety Data Sheet

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

Section 10. Stability and Reactivity	
Reactivity	Contact with acids liberates toxic gas.
Chemical Stability	Unstable above 40 °C
Possibility of Hazardous Reactions	It may react with aluminium producing flammable hydrogen gas
Conditions to Avoid	High temperatures. Exposure to light.
Incompatible Materials	Acids, ammonia, strong oxidizers, reducing agents, and metals
Hazardous Decomposition Products	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

Section 11. Toxicological Information			
Component Toxicity	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium Hypochlorite	8200mg/kg (Rat)	10000mg/kg (Rabbit)	No data
Likely Routes of Exposure			
Skin:	May be corrosive. May cause whitening or bleaching of the skin.		
Eyes:	Can cause irritation and damage to eyes.		
Inhalation:	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.		
Ingestion:	May be irritating to mouth, throat and stomach. May cause vomiting, nausea and diarrhoea. Coma, shock and death may occur.		
Acute Toxicity Estimates (ATE)	Not classified		
STOT (Specific Target Organ Toxicity) – Single Exposure	Not classified		
Aspiration Toxicity	Not classified		
STOT (Specific Target Organ Toxicity) – Repeated Exposure	Not classified		
Skin Corrosion / Irritation	Causes severe skin burns and eye damage.		
Serious Eye Damage / Irritation	Causes serious eye damage.		
Respiratory or Skin Sensitization	Not classified		
Carcinogenicity	IARC – Group 3 (sodium hypochlorite solution).		
Reproductive Toxicity			
- Sexual Function and Fertility	Not classified		
- Development of Offspring	Not classified		
- Effects on or via Lactation	Not classified		
Germ Cell Mutagenicity	Not classified		
Interactive Effects	Not classified		
Other Information	None known		

Safety Data Sheet

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

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

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

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

Safety Data Sheet

Section 16. Other Information	
NFPA Rating	Health-2/ Flammability-0/Reactivity-2/Special Hazard-Not applicable
HMIS Rating	Health-2/Flammability-0/Reactivity-2/Personal Protection-See Section 8.
Prepared by:	Chemfax Products Ltd., Technical Department
Date Prepared:	13 January, 2012
Date of Latest Revision:	25 January 2021
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