

## SAFETY DATA SHEET

## SECTION 1 - CHEMICAL PRODUCT & COMPANY IDENTIFICATION:

**Product Name: Sodium Hypochlorite Solution** 

Trade Name: Flochem-12B

WHMIS CLASS: C, E, D-1B, D-2B

Effective Date: September 14, 2022

Product Use: Disinfection, odour control, laundry, water, sewage and industrial waste treatment, hard surface cleaner and

biocide.

Supplier Name & Address:

FLOCHEM LTD.

6986 Wellington Rd. 124, Guelph, ON, Canada N1H 6J4 **Emergency Phone Number:** 

1-877-378-7745

### SECTION 2 - HAZARDS IDENTIFICATION:



**SIGNAL** WORD..... CLASSIFICATION:....

HAZARD STATEMENTS.....

**PRECAUTIONARY** STATEMENTS.....

#### DANGER.

Serious Eye Damage/ Eye Irritation Category 1. Skin corrosion Category 1. Specific Target Organ Toxicity Single Category 3. Respiratory tract irritation Category 1. Acute aquatic toxicity Category 1. Chronic aquatic toxicity Category 1. H290 May be corrosive to metals. H314 Causes severe skin burns and eye damage. H335 May cause respiratory irritation. H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

P260 Do not breathe dust/fume/gas/mist/vapours/spray. P264 Wash thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area. P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection. P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P310 Immediately call a POISON CENTER or doctor/physician.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P501 Dispose of contents/container to an approved waste disposal plant.

### **SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS:**

Wt% Ingredients: CAS# Sodium Hypochlorite 7681-52-9 7-13 Sodium Hydroxide 1310-73-2 0.2 - 57732-18-5 Balance Water

### **SECTION 4 - FIRST AID MEASURES:**

Route of Exposure: Eye, Skin, Ingestion and Inhalation.

INHALATION	Remove victim to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get immediate medical attention. Call a poison center or physician.
EYE CONTACT	
SKIN CONTACT	
INGESTION	
ACUTE SYMPTOMS/EFFECTS	,g,
	Eyes: Causes eye burns. Causes eye irritation. Ingestion: May cause severe irritation damage in the mouth, throat and stomach. Symptoms may include abdominal pain, vomiting, burns, perforations, bleeding and eventually death.  Skin: Causes severe burns. Causes skin irritation.  Direct skin contact may cause skin burns, deep ulcerations and possibly permanent scaring.
	Inhalation:
DELAYED SYMPTOMS/EFFECTS	Prolonged or repeated contact may cause drying, cracking and de fatting of the skin.
GENERAL ADVICE	n Consult a physician. Show this safety data sheet to the doctor.

### **SECTION 5 - FIRE FIGHTING MEASURES:**

CONDITIONS OF FLAMMABILITY	Non-flammable substance. Non-combustible substance.
SUITABLE EXTINGUISHING MEDIA	Use fire-extinguishing media appropriate for surrounding materials. Use Water spray, Alcohol-resistant foam, Dry chemical or Carbon dioxide.
UNSUITABLE EXTINGUISHING MEDIA	Do not use dry chemical extinguishing agents that contain ammonium compounds.
SPECIAL PROTECTIVE EQUIPMENT AND	Firefighter should wear proper protective equipment and self-contained breathing
PRECAUTIONS FOR FIREFIGHTERS	Apparatus with full face piece operated in positive pressure mode. Move containers from fire area if safe to do so. Use water to cool fire exposed containers.
HAZARDOUS COMBUSTION PRODUCTS.	May include and are not limited to: Chlorine; Hydrogen chloride gas; Oxygen; Sodium dioxides.

## **SECTION 6 - ACCIDENTAL RELEASE MEASURES:**

PERSONNEL PRECAUTIONS: Restrict access to area until completion of clean up. Evacuate personnel to safe areas. Ensure clean-up is conducted by trained personnel only. Do not touch and walk through spilled material. All persons dealing with clean up should wear the appropriate protective equipment including self-contained breathing apparatus. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Use personnel protective equipment, Avoid breathing vapours, mist or gas. Ensure adequate ventilation.

ENVIRONMENTAL PRECAUTONS: Ensure spilled product does not enter drains, sewers, waterways, or confined spaces. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers, or any natural waterway or drinking supply. Prevent further leakage or spillage if safe to do.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING Contain and absorb spilled liquid with noncombustible, inert absorbent material (e.g., sand), then place absorbent material into a container for later disposal. Flush with water. Do not flush into surface water or sanitary sewer system. Contaminated absorbent material may pose the same hazards as the spilled product. Notify the appropriate authorities as required.

## **SECTION 7 - HANDLING & STORAGE:**

HANDLING PROCEDURES	Use good industrial hygiene practices in handling this material. Do not eat, drink, or smoke when using this product. Use in well ventilated areas. Do not get in eyes, on skin or on clothing. Avoid inhalation of mists/vapours/fumes. Wash thoroughly after handling. Keep container tightly closed.
STORAGE NEEDS	Keep out of reach of children. Protect from sunlight. Keep container tightly
closed. Store in a cool, dry and well ventilate	d area. Do not store near acids.
STORAGE TEMPERATURE	<30°C.

## **SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION:**

	ACG	SIH TLV	OSHA PEL		NIOSH	
INGREDIENTS	TWA	STEL	PEL	STEL	REL	
Sodium Hypochlorite	Not established	Ceiling: 2 mg/m3	2 mg/m3		Not established	
		N	ot established			
Sodium Hydroxide	Not established	2 mg/m3	2 mg/m3		Not established	
		N	ot established			
ACGIH TLV:		, American Conference	of Governmental Indu	ustrial Hygienists - Th	reshold Limit Value.	
OSHA PEL:.		<ul> <li>Occupational Safety a</li> </ul>	nd Health Administrat	tion - Permissible Exp	oosure Limits.	
		Immediately Dangero				
ENGINEERING CONTRO	DLS	Use under well-ventilated conditions or with respiratory protection.				
GENERAL HYGIENE		Avoid breathing vapour or mist. Avoid contact with skin, eyes and clothing. Remove				
CONSIDERATIONS:		<ul> <li>soiled clothing and wa hands before eating, or</li> </ul>				
		smoke or use cosmet			, ,	
PERSONAL PROTECTEQUIPMENT:	ΓΙ <b>V</b> E	As required by employ protective equipment r of the dangerous subs	nust be selected acco	rding to the concentr		
Eye/Face protection:		Wear safety goggles v	ith side shields and/o	r face shield.		
Hand protection:		Wear protective gloves				
Respiratory protectio		Use appropriate respir	atory protection if their	re is the potential to e	exceed the	
, , , ,		exposure limit(s). Use				
		self-contained breathir				

## **SECTION 9 – PHYSICAL & CHEMICAL PROPERTIES:**

Boiling Point: Decomposes on heating Vapour Pressure (mm Hg): 22@20(°C) Vapour Density (Air =1): Not Available

Percent Volatile (Wt %): 80 Physical State: Liquid Odour: Chlorine like, pungent **Specific Gravity (H20=1):** 1.076 - 1.168

Freezing Point(°C): -20°C

Appearance: Greenish-yellow solution

pH: 12-14

Solubility in Water: Miscible Viscosity @ 20°C: Water thin

# **SECTION 10 - STABILITY & REACTIVITY:**

CHEMICAL STABILITY	Stable under the recommended storage and handling conditions prescribed.
REACTIVITY	React vigorously with acids. Reacts with amines and ammonia to form
	explosively unstable compounds. May develop chlorine if mixed with acidic
	solutions. Contact with some reactive metals may produce flammable hydrogen
	gas. Corrosive to metals.

HAZARDOUS POLYMERIZATION	Hazardous polymerization cannot occur.
CONDITIONS TO AVOID	Avoid heat and open flame. Exposure to sunlight. Do not mix with other
	chemicals.
INCOMPATIBILITY	Avoid contact with the following materials: Urea, Ammonia, Amides, Amines,
t.	Nitrogen containing compounds, Combustible materials, Organic materials,
	Metals, Reducing materials, Hydrocarbons materials, Alcohols, Ether. Contact
	with Magnesium, galvanized Zinc, Tin, Chromium, Brass and Bronze generates
	explosive Hydrogen.
HAZARDOUS PRODUCTS OF	May include and are not limited to: Hydrogen chloride, Chlorine gas, Sodium
DECOMPOSITION	dioxide.

# **SECTION 11 - TOXICOLOGICAL INFORMATION:**

INGREDIENTS	LC50	*		LD50
INGREDIENTS	1000			
Sodium Hypochlorite Inhalation,	Rat: > 1	0.5 mg/kg		al Rat: 8200 mg/kg; Oral Mice: 5800 mg/kg; mal Rat: >2000 mg/kg; Dermal Rabbit: >10000 mg/kg
Sodium Hydroxide	Not esta	blished	Ora	al Rat: 2400mg/kg Dermal Rabbit: >2000mg/kg
ROUTE OF EXPOSUREPOTENTIAL EFFECT ON HUMANS	g	Eyes, skin, respiratory s	ystem and	<b>Q Q</b>
Eye contact		Harmful if swallowed. Ma mouth, throat and stoma Safe handling of this ma	ses skin irr cause resp ay cause s ach. terial on a with this m es.	•
JENSITIZATION	*********	140 IIIIOIIIIatioii available		
TARGET ORGANSCARCINOGENICITY		respiratory tract, skin,	eye, lens	se damage to the following organs: upper of cornea and stomach.
IARO International Agency for Research	IHon Cance	component of this pro identified as a carcino 3 - Group 3: Not class Hypochlorite).	duct prese gen or pot	carcinogen (Sodium Hypochlorite). No int at levels greater than or equal to 0.1% is ential carcinogen by ACGIH o its carcinogenicity to humans (Sodium
MUTAGENICITY REPRODUCTIVE EFFECTS TERATOGENICITY SPECIFIC TARGET ORGANS TOX	***************************************	No information availal No information availal	ole. ole.	
Single exposure SPECIFIC TARGET ORGANS TO Repeated exposure				
ASPIRATION HAZARD		No information availa	oie.	

# **SECTION 12 - ECOLOGICAL INFORMAITON:**

### **SECTION 13- DISPOSAL CONSIDERATIONS:**

### **SECTION 14 - TRANSPORT INFORMATION:**

Proper Shipping Name: Hypochlorite Solution
Transport Canada Classification, Class 8, UN1791, Packaging Group II

### **SECTION 15 - REGULATORY INFORMATION:**

On the DSL and TSCA Inventory.

### **SECTION 16 - OTHER INFORMATION:**

### Disclaimer:

The information contained herein is based on data considered to the best of our knowledge to be accurate. However, no warranty is expressed or implied regarding the accuracy of this data or the results obtained from the use thereof.

#### Prepared by:

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