WEERIN CHEM
Company Limited

MATERIAL SAFETY DATA SHEET (MSDS)

HyPoChlor (Sodium Hypochlorite)

SECTION 1 - COMPANY IDENTIFICATION

WeeRin Chem Co.,Ltd.

39/23 Moo 6, LatSawai Subdistrict, Lam LukKa District, PathumThani, 12150 Thailand.

Emergency Phone Number : (662) 115-1211

SECTION 2 - CHEMICAL PRODUCT AND COMPOSITION, INFORMATION ON INGREDIENTS

Product Name : SODIUM HYPOCHLORITE 10 PCT. (HyPoChlor)

Synonym : Sodium Hypochlorite, Hypo, Liquid Bleach, Bleach, Hypochlorite, Liquid Chlorine Solution, Javel Water.

Chemical Formula : NaOCl

CAS Number : 7681-52-9

Composition

Chemical Name	CAS#	Wt.%	Hazard Symbols and Hazard Statements
Sodium Hypochlorite	7681-52-9	10%	

SECTION 3 - HAZARDS IDENTIFICATION

HMIS Classification

Health Hazard	3
Flammability	0
Physical Hazard	2

NFPA Classification

Health Hazard	3
Fire Hazard	0
Reactivity Hazard	1

Emergency Overview

OSHA Hazards : Oxidizer, Unstable (Reactive), Corrosive.

Immediately Dangerous to Life or Health : Not Established for The Product.

Potential Health Effects

Primary Routes of Entry : Ingestion, Eyes, Inhalation, Skin Absorption.

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Aggravated Medical Condition	:	Asthma, Heart Disease, Respiratory Disorder.
Inhalation	:	Inhalation of Vapors is Irritating to The Respiratory System, May Cause Throat Pain and Cough. Inhalation of Aerosol May Cause Irritation to The Upper Respiratory Tract. Higher Exposure May Cause Lung Edema, Circulatory Collapse and Unconsciousness.
Skin	:	May Cause Skin Irritation and/or Dermatitis. Prolonged Skin Exposure May Cause Destruction of The Dermis With Impairment of The Skin to Regenerate at Site of Contact.
Eyes	:	Causes Serious Eye Irritation. Blurred Vision May Cause Impairment of Vision and Corneal Damage.
Ingestion	:	Ingestion of High Concentrations May Cause Injuries to Gastrointestinal Tract, Liver and Kidneys. Ingestion May Cause Gastrointestinal Irritation, Nausea, Vomiting and Diarrhea.
Chronic Exposure	:	Repeated Inhalation Exposure May Cause Impairment of Lung Function and Permanent Lung Damage. Effects From Chronic Skin Exposure Would be Similar to Those From Single Exposure Except for Effects Secondary to Tissue Destruction.
NTP	:	No Component of This Product Present at Levels Greater Than or Equal to 0.1% is Identified as a Known or Anticipated Carcinogen by NTP.
IARC	:	No Component of This Product Present at Levels Greater Than or Equal to 0.1% is Identified as Probable, Possible or Confirmed Human Carcinogen by IARC.
OSHA	:	No Component of This Product Present at Levels Greater Than or Equal to 0.1% is Identified as a Carcinogen or Potential Carcinogen by OSHA.
ACGIH	:	No Component of This Product Present at Levels Greater Than or Equal to 0.1% is Identified as a Carcinogen or Potential Carcinogen by ACGIH.

SECTION 4 - FIRST AID MEASURES

First Aid Procedures

Eye Contact	:	IMMEDIATELY Flush Eyes With Plenty of Water Holding Eyelids Apart For at Least 15-20 Minutes. Get Medical Attention IMMEDIATELY.
Skin Contact	:	Take Off Contaminated Clothing. Rinse Skin Immediately With Plenty of Water for 15-20 Minutes. Call a Poison Control Center or Doctor for Treatment Advice.
Ingestion	:	Call a Poison Control Center or Doctor Immediately for Treatment Advice. Have Person Sip a Glass of Water if Able to Swallow. Do Not Induce Vomiting Unless Told to Do So by The Poison Control Center or Doctor. Do Not Give Anything by Mouth to An Unconscious Person.
Inhalation	:	Move Person to Fresh Air. If Breathing is Difficult Oxygen May be Beneficial if Administered by Trained Personnel. If Breathing Has Stopped, Apply Artificial Respiration. Call a Physician or Poison Control Center IMMEDIATELY.
General Advice	:	Have The Product Container or Label With You When Calling a Poison Control Center or Doctor or Going for Treatment. Show This Safety Data Sheet to The Doctor in Attendance.
Comments	:	Probable Mucosal Damage May Contraindicate The Use of Gastric Lavage.

SECTION 5 - FIRE FIGHTING MEASURES

Flammable Properties

Flash Point	:	Not Applicable.
Lower Explosion Limit	:	Not Applicable.
Upper Explosion Limit	:	Not Applicable.

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Fire Fighting

Suitable Extinguishing Media	:	Use Extinguishing Measures That Are Appropriate to Local Circumstances and The Surrounding Environment. On Small Fire, Use Dry Chemical, Carbon Dioxide or Water Spray. On Large Fires, Use Water in Flooding Quantities as Fog.
Unsuitable Extinguishing Media	:	Do Not Use Mono Ammonium Phosphate (MAP) Type Extinguishers Directly on This Product.
Further Information	:	Cool Containers / Tanks With Water Spray.

Protective Equipment and Precautions for Firefighters

Specific Hazards During Fire Fighting	:	Corrosive.
Special Protective Equipment for Fire-Fighters	:	Additional Protective Clothing Must Be Worn to Prevent Personal Contact With This Material. Those Items Include But are Not Limited to : Boots Gloves, Hard Hat, Splash-Proof Goggles, Full Face Shield and Impervious Clothing, I.E. Chemically Impermeable Suit. Compatible Materials for Response to This Material are Neoprene and Butyl Rubber.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions	:	Restrict Access to Affected Area. Use Personal Protective Equipment. Use NIOSH Approved Respiratory Protection. Keep People Away From and Upwind of Spill/Leak.
Methods for Containment / Methods for Cleaning Up	:	Try to Prevent the Material From Entering Drains or Water Courses. Prevent Further Leakage or Spillage if Safe to Do So. Inform The Responsible Authorities in Case of Gas Leakage, Or of Entry Into Waterways, Soil or Drains. Will Form Hazardous Reaction Products Suppress (Knock Down) Gases/Vapours/Mists With a Water Spray Jet. Contain Spillage, Soak Up With Non-Combustible Absorbent Material, (E.G. Sand, Earth, Diatomaceous Earth, Vermiculite) and Transfer to a Suitable Container for Disposal According to Local / State / Province / National Regulations (See Section 13).
Additional Advice	:	Dispose of As Hazardous Waste In Compliance With Local, Province, State and Federal Regulations. You Are Requested to Contact The Emergency Numbers Listed Below Before Beginning any Such Operation.

SECTION 7 - HANDLING AND STORAGE

Handling

Handling	:	Personnel Working With This Chemical Should be Trained on its Hazards. Avoid Contact With Skin and Eyes. Do Not Ingest. Avoid Inhalation of Vapor or Mist. Wear Personal Protective Equipment. For Personal Protection See Section 8.
Advice on Protection Against Fire and Explosion	:	Normal Measures for Preventive Fire Protection.

Storage

Requirements for Storage Areas and Containers	:	Do not freeze. Store In a Cool and Shaded Area. Keep In a Well-ventilated Place. To Maintain Product Quality, Do Not Store in Heat or Direct Sunlight. Decomposition Rate Increases as it is Heated. Keep In Properly Labeled Containers. Keep Container Closed When Not in Use.
Store at Temperatures Not Exceeding	:	86°F (30°C)

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SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

Exposure Guidelines

Components With Workplace Control Parameters.

Components	CAS-No.	Value	Control parameters	Update	Basis
Sodium Hydroxide	1310-73-2	CEIL	2 mg/m^3	1994-09-01	ACGIH
		TWA	2 mg/m^3	1993-06-30	OSHA P1

Engineering Measures : Use Local Exhaust Ventilation to Maintain Levels to Below The PEL.

Personal Protective Equipment

Eyes Protection : Ensure That Eye wash Stations and Safety Showers are Close to The Workstation Location. Chemical Resistant Goggles Must Be Worn.

Skin and Body Protection : Boots. Full Protective Suit. Wear Protective Gloves.

Respiratory Protection : Sudden Release of Chlorine Hazard. If Air Concentrations above The PEL are Possible, Wear a NIOSH Approved Respirator. Wear Respiratory Equipment When Entering The Spray Area.

Hygiene Measures : General Industrial Hygiene Practice.

The Listed Materials are Guidelines Only and There are Numerous PPE Alternatives Depending on The Site Specifics of Where The Chemical is Used. You Should Always Consult With Your PPE Supplier for The Correct Tested Material.

Before Using This Chemical You Should be Aware of Its Hazards and be Knowledgeable of Emergency Procedures in The Event of a Spill.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form : Liquid.

Color : Yellow to Yellowish Green.

Odor : Pungent.

Safety Data

Flash Point : Not Applicable.

Lower Explosion Limit : Not Applicable.

Upper Explosion Limit : Not Applicable.

Autoignition Temperature : Not Applicable.

Molecular Weight : 74.5 g/mol

pH : 12 – 14 at 77°F (25°C)

Freezing Point : -17°F (-27°C) 16% Solution.

Boiling Point/Boiling Range : Decomposes on Heating.

Vapor Pressure : 12 mmHg @ 68°F (20°C) 12.5% Solution.

Bulk Density : Not Applicable.

Solubility In Water : Completely Miscible.

Evaporation Rate : No Data Available.

SECTION 10 - STABILITY AND REACTIVITY

Conditions to Avoid : High Heat, Sunlight and Ultra-Violet Light.

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Materials to Avoid	:	Oxidizing Agents, Acids, Nitrogen Containing Organics, Metals, Iron, Copper, Nickel, Cobalt, Organic Materials, Ammonia.
Hazardous Decomposition Products	:	Decomposition Will Result in The Formation of Oxygen From Contact With Copper, Nickel, Cobalt and Iron Solids Such as Rust. Decomposition Rate Increases As Its Heated. May Develop Chlorine If Mixed With Acidic Solutions.
Thermal Decomposition	:	Decomposition Rate Increases As It Is Heated.
Hazardous Polymerization	:	Does Not Occur.

SECTION 11 - TOXICOLOGICAL INFORMATION

Human Threshold Response

Odor Threshold	:	Approximately 0.9 mg/m3 (0.3 ppm) Pungent.
Irritation Threshold	:	No Data Available.
Immediately Dangerous to Life or Health	:	Not Established for The Product.

Animal Toxicology

Acute Oral Toxicity	:	LD50 Rat Dose: 3 - 5 g/kg
Acute Dermal Toxicity	:	LD50 Rabbit Dose: > 2 g/kg
Acute Inhalation Toxicity	:	LC50 No Data Available.

SECTION 12 - ECOLOGICAL INFORMATION

Acute Fish Toxicity : LC50 Bluegill Sunfish : 2.90 mg/L
Exposure Time : 96 Hour.
LC50 Pimephales Promelas (Fathead Minnow) : 1.40 mg/L
Exposure Time : 96 Hour.
LC50 Oncorhynchus Mykiss (Rainbow Trout) : 0.90 mg/L
Exposure Time : 0.5 Hour.

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste Classification	:	If This Product Becomes a Waste, It Meets The Criteria of a Hazardous Waste as Defined Under 40 CFR 261 and Would Have The Following : D002.
Further Information	:	If This Product Becomes a Hazardous Waste, It Will Be a Hazardous Waste Which is Subject to The Land Disposal Restrictions Under 40 CFR 268 and Must Be Managed Accordingly. Dispose of as Hazardous Waste in Compliance With Local, Province, State and Federal Regulations.

Care Must be Taken to Prevent Environmental Contamination From Use of This Material. The User of This Material Has The Responsibility to Dispose of Unused Material, Residues and Containers in Compliance With All Relevant Local, Provincial, State and Federal Laws and Regulations Regarding Treatment, Storage and Disposal for Hazardous and Non Hazardous Wastes.

SECTION 14 - TRANSPORT INFORMATION

DOT	Shipping Name	:	Hypochlorite Solutions.
	UN Number	:	UN 1791
	Hazard Class, Subsidiary	:	8 (Corrosive)
	Packing Group	:	III

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	Hazard Labels/Placard	:	8 (Corrosive)
	Emergency Response	:	154
	Reportable Quantity	:	100 LB (Per 49 CFR 172.101, Appendix)
TDG CLR	Shipping Name	:	Hypochlorite Solutions.
	UN Number	:	UN 1791
	Hazard Class, Subsidiary	:	8 (Corrosive)
	Packing Group	:	III
	Hazard Labels/Placard	:	8 (Corrosive)
IATA	UN Number	:	UN 1791
	Description of The Goods	:	Hypochlorite Solutions.
	Hazard Class, Subsidiary	:	8 (Corrosive)
	Packing Group	:	III
	ICAO Labels	:	8 (Corrosive)
IMDG	UN Number	:	UN 1791
	Description of The Goods	:	Hypochlorite Solutions.
	Hazard Class, Subsidiary	:	8 (Corrosive)
	Packing Group	:	III
	IMDG Labels	:	8 (Corrosive)
	Marine Pollutant	:	No

See Regulations for Further Information.

SECTION 15 - REGULATORY INFORMATION

CANADIAN CLASSIFICATION

WHMIS Classification	:	E Corrosive Material.	
NPRI Components	:	Hypochlorous Acid, Sodium Salt	7681-52-9
		Sodium Hydroxide (Na(OH))	1310-73-2

Canadian National Pollutant Release Inventory (NPRI): No Component is Listed on NPRI. This Product Has Been Classified According to The Hazard Criteria of The CPR and The MSDS Contains All of The Information Required by The CPR.

US CLASSIFICATION

OSHA Hazards	:	Oxidizer, Unstable (reactive), Corrosive.
CERCLA	:	100 lbs
SARA 311/312 Hazards	:	Acute Health Hazard.
		Chronic Health Hazard.
		Reactivity Hazard.

EPCRA - Emergency Planning and Community Right-to-Know Act

SARA 302 : No Chemicals in This Material are Subject to The Reporting Requirements of SARA Title III, Section 302.

SARA 313 : This Material Does Not Contain any Chemical Components With Known CAS Numbers That Exceed The Threshold (De Minimis) Reporting Levels Established by SARA Title III, Section 313.

US STATE REGULATIONS

Massachusetts Right To	:	Hypochlorous Acid, Sodium Salt	7681-52-9
Know Components		1991-07-01	

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		Sodium Hydroxide (Na(OH))	1310-73-2
		1991-07-01	
Pennsylvania Right To	:	Hypochlorous Acid, Sodium Salt	7681-52-9
Know Components		1991-07-01	
		Sodium Hydroxide (Na(OH))	1310-73-2
		1991-07-01	
		Sodium Chloride (NaCl)	7647-14-5
		Water	7732-18-5
		Carbonic Acid Disodium Salt	497-19-8
New Jersey Right To	:	Water	7732-18-5
Know Components		Hypochlorous Acid, Sodium Salt	7681-52-9
		1991-07-01	
		Sodium Chloride (NaCl)	7647-14-5
		Sodium Hydroxide (Na(OH))	1310-73-2
		1991-07-01	

The Components of This Product are Reported in The Following Inventories :

EINECS	On The Inventory, or In Compliance With The Inventory.
TSCA	On TSCA Inventory.
AICS	On The Inventory, or In Compliance With The Inventory.
DSL	All Components of This Product are On The Canadian DSL List.
ENCS	On The Inventory, or In Compliance With The Inventory.
KECI	On The Inventory, or In Compliance With The Inventory.
PICCS	On The Inventory, or In Compliance With The Inventory.
IECSC	On The Inventory, or In Compliance With The Inventory.
NZIoC	On The Inventory, or In Compliance With The Inventory.

SECTION 16 - OTHER INFORMATION

Further Information

The Information Provided in This Safety Data Sheet is Correct to The Best of Our Knowledge, Information and Belief at The Date of Its Publication. The Information Given is Designed Only as a Guidance for Safe Handling, Use, Processing, Storage, Transportation, Disposal and Release and Is Not to Be Considered a Warranty or Quality Specification. The Information Relates Only to The Specific Material Designated and May Not Be Valid for Such Material Used in Combination With any Other Materials or In any Process, Unless Specified in The Text.

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