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Revision Date:
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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

Product Identifier

Product Name: KIRAW Bleach
Others means of identification: N/A
Synonyms: None

Recommended use of the chemical and restrictions on use

Recommended Use: Bleaching liquid for all purpose household
Uses advised against: No information available

Details of the supplier of the safety data sheet

Supplier Name: Sun Jiang Trading Sdn Bhd
Supplier Addresses: B-1-39&40,Dataran Cascades, No.13A, Jalan PJU5,
Kota Damansara, 47810 Petaling Jaya, Selangor.
Supplier Phone Number: 603 76201378
Supplier Fax Number: 603 76201256
Emergency Telephone Number
Company Emergency Phone 603 76201378
Number For Medical Emergencies call: 999
Emergency Telephone Number: 603 76201378

2. HAZARDS IDENTIFICATION

GHS Classification

Serious eyes damage/eye irritation:Category 1

GHS Label Element

Hazard Pictograms:



Signal Word: Danger



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Hazard Statements:

Causes skin irritation
Causes serious eye irritation

Precautionary Statements (Prevention):

Wash skin thoroughly after handling. Wear protective gloves protection/face protection.

Precautionary Statements (Response):

IF ON SKIN: Wash with plenty of soap and water.

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

IF SKIN IRRITATION OCCURS: Get medical attention or advice. Take off contaminated clothing and wash it before use.

Other hazards:

Mixing this product with acid or ammonia release chlorine gas

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Percent (%)	Trade Secret
Sodium Hypochlorite	007681-52-9	5.25-6.00	*
Sodium Carbonate	497-19-8	0.01-1.00	*
Calcium Hypochlorite	7778-54-3	0.01-0.8	*
Water	7732-18-5	To 100	*

* The exact percentage of composition has been withheld as a **TRADE SECRET**

4. FIRST AID MEASURES

Product AS SOLD

In case of eye contact:

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention.

In case of skin contact:

Wash off immediately with plenty of water for at least 15 minutes. Use mild soap if available. Get medical attention if irritation develops and persists.

If swallowed:

Rinse mouth. Get medical attention if symptoms occur.



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If inhaled: Get medical attention if symptoms occur. Protection of first-aiders: If potential for exposure exists refer to Section 8 for specific personal protective equipment.

Notes to physician: Treat symptomatically.
Most important symptoms: See Section 11 for more detailed information on health effects and symptoms.

Product AT USE DILUTION

In case of eye contact: Rinse with plenty of water.
In case of skin contact: Rinse with plenty of water.
If swallowed: Rinse mouth. Get medical attention if symptoms occur.
If inhaled: Get medical attention if symptoms occur.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media

CAUTION: Use of water spray when fighting fire may be inefficient.

Specific Hazards Arising from the Chemical

No information available.

Explosion Data

Sensitivity to Mechanical Impact: None

Sensitivity to Static Discharge: None

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Product AS SOLD

Personal precautions, protective equipment and emergency procedures:

Ensure good ventilation. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eye. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.



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Environmental precautions:

Do not allow contact with soil, surface or ground water.

Methods and materials for containment and cleaning up:

Methods for containment:

Prevent further leakage or spillage if safe to do so

Method for Cleaning up:

Absorb and containerize. Wash residual down to sanitary sewer. Contact the sanitary treatment facility in advance to ensure ability to process washed-down material.

Product AT USE DILUTION

Personal precautions, protective equipment and emergency procedures:

Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.

Environmental precautions:

Do not allow contact with soil, surface or ground water.

Methods and materials for containment and cleaning up:

Stop leak if safe to do so. Contain spillage, and then collect with noncombustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure run off does not reach a waterway.

7.HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling:

Avoid contact with skin and eyes. Wash hands thoroughly after handling. Mixing this product with acid or ammonia releases chlorine gas

Conditions for safe storage:

Do not store near acids. Keep out of reach of children. Keep container tightly closed. Store in suitable labeled containers

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameter

Ingredient Comments

Chemical Name	OSHA PEL	ACGIH TLV	NIOSH IDLH
Sodium Hypochlorite 7681-52-9	None	None	None
Calcium Hypochlorite 65 7778-54-3	None	None	None

Exposure control

Engineering measures

Provide adequate ventilation system, eyewash stations and Showers.

Respiratory equipment

If ventilation is insufficient, suitable respiratory protection must be provided.

Hand protection

For prolonged or repeated skin contact use suitable protective gloves.

The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

Eye protection

Wear approved, tight fitting safety glasses where splashing is probable.

Hygiene measures

Wash hands after contact. Wash hands at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Physical State:

Liquid

Appearance:

Clear, pale yellow

Colour:

No Information available



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Odour: Chlorine
Odor Threshold: No information available

<u>Property</u>	<u>Values</u>
pH:	11.00-12.45
Specific Gravity:	1.09
Flash point:	Not Flammable
Initial boiling point and boiling range:	No data available
Evaporation rate:	No data available
Flammability (solid, gas):	No data available
Upper explosion limit:	No data available
Lower explosion limit:	No data available
Vapor pressure:	No data available
Water solubility:	Completely soluble
Solubility in other solvents:	No data available
Partition coefficient-(noctanol/water):	No data available
Auto-ignition temperature:	No data available
Thermal decomposition:	No data available
Viscosity, kinematic:	No data available
Explosive properties:	No data available
Oxidizing properties:	No data available
Molecular weight:	No data available

10. STABILITY AND REACTIVITY

Chemical stability: Stable under normal conditions.
Possibility of hazardous reactions: Mixing this product with acid or ammonia releases chlorine gas. Gives off hydrogen by reaction with metals
Conditions to avoid: Extremes of temperature and direct sunlight.
Incompatible materials: Acids, Metals, Reducing agents
Hazardous decomposition products: Decomposition products may include the following materials: Chlorine



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11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation: Exposure to vapor or mist may irritate respiratory tract and cause coughing. Inhalation of high concentrations may cause pulmonary edema.

Eye Contact Corrosive: May cause severe damage to eyes.

Skin Contact: May cause severe irritation to skin. Prolonged contact may cause burns to skin.

Ingestion: Ingestion may cause burns to gastrointestinal tract and respiratory tract, nausea, vomiting, and diarrhea.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium Hypochlorite 7681-52-9	8200mg/kg (Rat)	>10000 mg/kg (Rabbit)	5.25 mg/L (4 hr)
Calcium Hypochlorite 65% 7778-54-3	850 mg/kg	>2000 mg/kg	2.0 mg/L (1hr)
Sodium Carbonate 497-19-8	4090 mg/kg	500 mg/24hr	2 mg/l /2hr

Information on toxicological effects:

Symptoms: May cause tearing and redness of the eyes

Sensitization: No information available

Mutagenic Effects: No information available

Carcinogenicity: Not Classified

The table below indicates each agency has listed any ingredients as carcinogen

Chemical Name	ACGIH	IARC	NTP	OSHA
Sodium Hypochlorite 7681-52-9	-	Group 3	-	-



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Calcium Hypochlorite 65% 7778-54-3	-	Group 3	-	-
Sodium Carbonate 497-19-8	-	Group 3	-	-

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

12. ECOLOGICAL INFORMATION

Ecotoxicity

Not regarded as dangerous for the environment

Persistence and Degradability

This product is deemed to be readily biodegradable. According to the OECD 301D test method, the product passes the level of 60% biodegradation with the test period of 28 days.

Bioaccumulation

No information available

Other treatment method

No information available

Other adverse effects

No information available

13. DISPOSAL CONSIDERATION

Waste treatments methods

Disposal methods:

Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility

Contaminated Packaging:

Do not re-use empty containers. Dispose of in accordance with local, state, and federal regulations.



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14. TRANSPORT INFORMATION

DOT/TDG/ICAO/IATA/IMDG: Not regulated

15. REGULATORY INFORMATION

International Inventories

The components of this product are reported in the following inventories:

United States TSCA Inventory:

On TSCA Inventory

Canadian Domestic Substances List (DSL) :

All components of this product are on the Canadian DSL.

Australia. Industrial Chemical (Notification and Assessment) Act:

On the inventory, or in compliance with the inventory

New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand:

On the inventory, or in compliance with the inventory

Japan. ENCS - Existing and New Chemical Substances Inventory:

On the inventory, or in compliance with the inventory

Japan. ISHL - Inventory of Chemical Substances (METI):

On the inventory, or in compliance with the inventory

Korea. Korean Existing Chemicals Inventory (KECI):

On the inventory, or in compliance with the inventory

Philippines Inventory of Chemicals and Chemical Substances (PICCS):

On the inventory, or in compliance with the inventory

China Inventory of Existing Chemical Substances:

On the inventory, or in compliance with the inventory

Regulated Ingredients:

Sodium Hypochlorite (CAS # 7681-52-9)

Calcium Hypochlorite (CAS # 7778-54-3)

OSHA Classification

Physical Hazards:

Reactivity

Health Hazards:

Acute Health Hazard, Corrosive

TSCA Inventory Listed:

All components are listed in TSCA inventory (40CFR 710)



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CERCLA (Comprehensive Environmental Response Compensation and Liability Act)

CERCLA Hazardous Material: Yes

SARA

SARA Title III, Section 302: Not listed TPQ: N/A
SARA Title III, Section 311/312: Acute Health Hazard
Acute: Yes
Chronic: No
Fire: No
Pressure: No
Reactivity: No
SARA Title III, Section 313: Not subject to Toxic Chemical Release Inventory Reporting
RCRA Hazardous Waste: Not a listed Hazardous Waste. May be a D002 (characteristic corrosive) waste based upon pH value.
EPA Clean Air Act: Not a Listed Hazardous Air Pollutant (HAP)
EPA Clean Water Act: Listed
EPA FIFRA: Not a registered pesticide

16. OTHER INFORMATION

Sources of key data used to compile the Safety Data Sheet:

Globally Harmonized System of Classification and Labelling of Chemicals (GHS)
IARC: (International Agency for Research on Cancer)
US. National Toxicology Program (NTP) Report on Carcinogens
ECHA List of Publishable Substances Registered
EU HPVCs (High Production Volume Chemicals)

Prepared by: Sun Jiang Trading Sdn Bhd

Disclaimer:

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 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.