

SAFETY DATA SHEET

IDENTIFY : HIGH DENSITY CHLORINE MEASUREMENT REAGENT

SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : HIGH DENSITY CHLORINE MEASUREMENT REAGENT<High Chlorine Reagent>
MDL : HOCℓ-K-1

SUPPLIER : SUPPLIER :
Company Name : KASAHARA CHEMICAL INSTRUMENTS CORP.
Address : 2-133-8 Sakurada Kuki-city Saitama 340-0203 Japan
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SECTION 2. HAZARDS IDENTIFICATION

GHS classification

Classification of the substance or mixture

Serious eye damage/eye irritation

Category 2B

Reproductive Toxicity

Category 2

Specific target organ toxicity (repeated exposure)

Category 1

Category 1 skin, systemic toxicity, thyroid gland

Pictograms



Signal word Danger

Hazard statements

H320 - Causes eye irritation

H361 - Suspected of damaging fertility or the unborn child

H370 - Causes damage to organs through prolonged or repeated exposure

H372 - Causes damage to the following organs through prolonged or repeated exposure: skin, systemic toxicity, thyroid gland

Precautionary statements-(Prevention)

- Obtain special instructions before use
- Do not handle until all safety precautions have been read and understood
- Use personal protective equipment as required.
- Wash face, hands and any exposed skin thoroughly after handling
- Do not breathe dust / fume / gas / mist / vapors / spray
- Do not eat, drink or smoke when using this product

Precautionary statements-(Response)

- IF exposed or concerned : Get medical advice / attention
- IF INEYES : Rinse cautiously with water for several minutes. Remove contact lenses , if present and easy to do. Continue rinsing.
- If eye irritation persists : Get medical advice / attention.

Precautionary statements-(Storage)

- Store locked up

Precautionary statements-(Disposal)

- Dispose of contents / container to an approved waste disposal plant

Others

Other hazards Not available

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Single substance or mixture Mixture

Chemical Name	Weight-%	Formula	ENCS	ISHL No.	CAS No
Potassium iodide	70~75%	KI	(1)-439	N/A	7681-11-0
Disodium hydrogen Citrate 1.5-Hydrate	20~25 %	NaOCOCH ₂ C(OH)(COOH) CH ₂ COONa·1.5H ₂ O	—	N/A	6132-05-4
Other ingredient	1~6 %	—	—	—	—

Impurities and Stabilizing additives Not applicable

SECTION 4. FIRST AID MEASURES

GENERAL ADVICE : Wash off immediately with soap and plenty of water. In the case of respirable dust and/or fumes, use self-contained breathing apparatus and dust impervious protective suit. Use personal protective equipment.

INHALATION : Move victim to fresh air. If breathing is difficult, give oxygen. If irritation persists, consult a physician.

SKIN CONTACT : Remove contaminated clothes and shoes, rinse skin with plenty of water or shower. Use soap to help assure removal. If irritation persists, consult a physician.

EYE CONTACT : Remove any contact lenses at once. Flush eyes well with a large amount of running water for at least 15 minutes. Assure adequate flushing by separating the eyelids with sterile fingers. If irritation persists, consult a physician.

INGESTION : Rinse mouth, give plenty of water to dilute the substance. Never give anything by mouth to an unconscious person. Consult a physician.

SECTION 5. FIRE FIGHTING MEASURES

Suitable extinguishing media Water spray (fog), carbon dioxide (CO₂), Foam, Extinguishing powder,

Unsuitable extinguishing media No information available

Special extinguishing method No information available

Specific hazards arising from the chemical product Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Protection of fire-fighters Use personal protective equipment as required Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear

SECTION 6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures**

For indoor, provide adequate ventilation process until the end of working. Deny unnecessary entry other than the people involved by, for example, using a rope. While working, wear appropriate protective equipments to avoid adhering it on skin, or inhaling the gas. Work from windward, and retract the people downwind.

Environmental precautions

To be careful not discharged to the environment without being properly handled waste water contaminated See Section 12 for additional ecological information

Methods and materials for contaminant and methods and materials for cleaning up

Do not touch spilled material without suitable protection (See section 8). After material is completely picked up, wash the spill site with soap and water and ventilate the area.

Put all wastes in a plastic bag for disposal and seal it tightly. Remove, clean, or dispose of contaminated clothing.

Recovery, neutralization

No information available

Secondary disaster prevention measures

Clean contaminated objects and areas thoroughly observing environmental regulations

SECTION 7. HANDLING AND STORAGE**Handling****Technical measures**

Avoid contact with strong oxidizing agents. Use with local exhaust ventilation.

Precautions

Do not rough handling containers, such as upsetting, falling, giving a shock, and dragging. Prevent leakage, overflow, and scattering. Not to generate steam and dust in vain.

Seal the container after use. After handling, wash hands and face, and then gargle. In places other than those specified, should not be smoking or eating and drinking.

Should not be brought contaminated protective equipment and gloves to rest stops. Deny unnecessary entry of non-emergency personnel to the handling area.

Safety handling precautions

Use personal protective equipment as required

Storage

Safe storage conditions

Storage conditions Store away from sunlight in well-ventilated dry place at room temperature.

Safe packaging material Polypropylene polyethylene

Incompatible substances Strong oxidizing agents

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls

For indoor, provide adequate ventilation process until the end of working. Deny unnecessary entry other than the people involved by, for example, using a rope. While working, wear appropriate protective equipments to avoid adhering it on skin, or inhaling the gas. Work from windward, and retract the people downwind.

Control parameters

Not regulated

Exposure limits

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

Personal protective equipment

Respiratory protection

Dust mask

Hand protection

Protection gloves

Eye protection

protective eyeglasses or chemical safety goggles

Skin and body protection

Long-sleeved work clothes

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE : White crystalline powder - powder

ODOR : Not available

pH: 6~8 (1%Liquid)

BOILING POINT : No data available

MELTING POINT : No data available

FLASH POINT : No data available

FLAMMABILITY (solid, gas) : ----

DECOMPOSITION TEMPERATURE : No data available

EXPLOSIVE LIMITS : No data available

VAPOR PRESSURE : No data available

SPECIFIC GRAVITY : No data available

SOLUBILITY IN ;

WATER : freely soluble

ETHANOL : practically insoluble, or insoluble .

PARTITION COEFFICIENT Not available

DECOMPOSITION TEMPERATURE Not available

SECTION 10. STABILITY AND REACTIVITY

Stability

Stability Stable under recommended storage conditions.

Reactivity No data available

Hazardous reactions

None under normal processing

Conditions to avoid

Extremes of temperature and direct sunlight

Incompatible materials

Strong oxidizing agents

Hazardous decomposition products

Carbon monoxide (CO), carbon dioxide (CO₂), Metal oxides

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity No data available

Skin irritation/corrosion No data available

Serious eye damage/ irritation No data available

Respiratory or skin sensitization No data available

Reproductive cell mutagenicity No data available

Carcinogenicity	No data available
Reproductive toxicity	No data available
STOT-single exposure	No data available
STOT-repeated exposure	No data available
Aspiration hazard	No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity	
Other data	No data available
Persistence and degradability	No information available
Bioaccumulative potential	No information available
Mobility in soil	No information available
Hazard to the ozone layer	No information available

SECTION 13. DISPOSAL CONSIDERATION (INCLUDING CONTAINER)

Waste from residues

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated container and contaminated packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations.

SECTION 14. TRANSPORT INFORMATION

ADR/RID	Not regulated
UN number	
Proper shipping name:	
UN classification	
Subsidiary hazard class	
Labels	
Packing group	
IMDG	Not regulated
UN number	
Proper shipping name:	
UN classification	
Subsidiary hazard class	
Packing group	
Marine pollutant (Sea)	
IATA	Not regulated
UN number	
Proper shipping name:	
UN classification	
Subsidiary hazard class	
Packing group	

SECTION 15. REGULATORY INFORMATION

International Inventories	
EINECS/ELINCS	Listed
TSCA	Listed
Japanese regulations	
Fire Service Act	Not applicable
Poisonous and Deleterious Substances Control Law	Not applicable
Industrial Safety and Health Act	Harmful substances whose names are to be indicated on the label (Law art.57,para.1 enforcement order art.18) Notifiable substances (Law art.57-2,Enforcement order art.18-2 attached table №9)№606
Regulations for the carriage and storage of dangerous goods in ship	Not applicable
Civil Aeronautics Law	Not applicable
Marine Pollution Prevention Law	Not applicable
Pollutant Release and Transfer Register Law	
Water Pollution Control Act	Not applicable

Gunpowder Control Law	Not applicable
Dangerous component	
ETCO	Not applicable

SECTION 16. OTHER INFORMATION

No specific notes

The above information is believed to be correct to be the best of our knowledge and information but does not purport to be all inclusive and shall be used only as a guide. This product is intended to be used by expert persons having chemical knowledge and skill, at their own discretion and risk and KRK shall not be held liable for any damage resulting from handling or from contact with the above material.