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SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Product: Sodium Chlorite 25% Solution	**Revision date:** 2026-10-27	**Version:** 1.0	**Brand:** Richest

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product name	Sodium Chlorite 25% Solution
Synonyms	None
CAS No.	7758-19-2
EC No.	231-836-6
Molecular formula	NaClO2
Molecular weight	90.44 g/mol
Relevant identified uses	Efficient bleach and disinfectant, widely used in water treatment, chemical, pharmaceutical, metallurgy, paper making, petroleum, textile and other industries
Uses advised against	None
Company	Richest Group Ltd.
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SECTION 2: Hazards identification

GHS Classification	Ox. Liq. 2; Acute Tox. 3 (Oral); Acute Tox. 2 (Dermal); Skin Corr. 1; Eye Dam. 1; STOT SE 2 (respiratory organs and kidney); STOT RE 2 (heart and blood); Aquatic Acute 1
Pictogram(s)	GHS03 (Flame over circle); GHS05 (Corrosion); GHS06 (Skull and crossbones); GHS08 (Health hazard); GHS09 (Environment)
Signal word	Danger

Hazard statement(s)	H272 May intensify fire; oxidizer H301 Toxic if swallowed H310 Fatal in contact with skin H314 Causes severe skin burns and eye damage H318 Causes serious eye damage H371 May cause damage to organs (respiratory organs and kidney) H373 May cause damage to organs (heart and blood) through prolonged or repeated exposure H400 Very toxic to aquatic life
Precautionary statement(s)	P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking P220 Keep/Store away from clothing and combustible materials P221 Take any precaution to avoid mixing with combustibles P260 Do not breathe dust/fume/gas/mist/vapours/spray P262 Do not get in eyes, on skin, or on clothing P264 Wash thoroughly after handling P270 Do not eat, drink or smoke when using this product P273 Avoid release to the environment P280 Wear protective gloves/protective clothing/eye protection/face protection P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P310 Immediately call a POISON CENTER or doctor P391 Collect spillage P405 Store locked up P501 Dispose of contents/container in accordance with relevant regulations
Other hazards	None

SECTION 3: Composition/information on ingredients	
Component	Sodium chlorite; Sodium chloride; Sodium chlorate; Sodium hydroxide
CAS No.	7758-19-2; 7647-14-5; 7775-09-9; 1310-73-2
EC No.	231-836-6; 231-598-3; 231-887-4; 215-185-5
Classification	Ox. Liq. 2, Acute Tox. 3 (Oral), Acute Tox. 2 (Dermal), Skin Corr. 1, Eye Dam. 1, STOT SE 2, STOT RE 2, Aquatic Acute 1; Not classified; Not classified; Skin Corr. 1A
Concentration (%)	25.2 %; 1.31 %; 0.41 %; 0.36 %

SECTION 4: First aid measures	
If inhaled	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Immediately flush body and clothes with large amounts of water, using safety shower if available. Quickly remove all contaminated clothing, including footwear. Wash skin and hair with running water.
In case of eye contact	Immediately hold eyelids apart and flush the eye continuously with running water for at least 15 minutes. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel. Get medical attention.
If swallowed	Do NOT induce vomiting. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. Never give liquid to an unconscious person.
Most important symptoms and effects	Toxic if swallowed. Fatal in contact with skin. Causes severe skin burns and serious eye damage. May cause damage to organs (respiratory organs and kidney).
Indication of any immediate medical attention	Immediately call a POISON CENTER or doctor. Treat symptomatically.

SECTION 5: Firefighting measures	
Suitable extinguishing media	For small fire: use flooding quantities of water. For large fire: flood fire area with water from a protected position.
Unsuitable extinguishing media	Do not use dry chemicals, CO2 or foam.
Special hazards arising from the chemical	Will not burn but increases intensity of fire. Heating may cause expansion or decomposition leading to violent rupture of containers. Contact with combustibles such as wood, paper, oil or finely divided metal may cause ignition, combustion or violent decomposition. May emit irritating, poisonous or corrosive fumes.

Advice for firefighters	Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up	Clean up all spills immediately. Avoid all contact with any organic matter (fuel, solvents, sawdust, paper or cloth) as ignition may result. Contain and absorb spill with dry sand, earth, inert material or vermiculite. Do NOT use sawdust. Collect recoverable product into labeled containers.

SECTION 7: Handling and storage

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition. No smoking. Take measures to prevent the build-up of electrostatic charge.
Conditions for safe storage, including any incompatibilities	Store in a cool place. Keep container tightly closed in a dry and well-ventilated place. Avoid storage with reducing agents.

SECTION 8: Exposure controls/personal protection

Occupational exposure limit values	Japan Occupational Exposure Limits for Dusts: TWA 8 mg/m3 (sodium chlorite).
Biological limit values	No biological exposure index (BEI) established.
Appropriate engineering controls	Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.
Eye/face protection	Use face shield and safety glasses for eye protection tested and approved under appropriate national standards.
Skin protection	Handle with chemical protective gloves (e.g. PVC). Gloves must be inspected prior to use. Dispose of contaminated gloves after use.
Body protection	Complete suit protecting against chemicals; flame retardant antistatic protective clothing; safety footwear or rubber gumboots.
Respiratory protection	Use a full-face respirator with multi-purpose combination, tested and approved under appropriate national standards.
Thermal hazards	Oxidizer; decomposes on heating, may intensify fire.

SECTION 9: Physical and chemical properties

Physical state	Transparent liquid
Colour	Colorless or light yellow
Odour	Slight chlorine-like odour
Melting point / freezing point	Decomposes as it melts between 180-200 °C
Boiling point or initial boiling point and boiling range	> 100 °C
Flammability	Not combustible but enhances combustion of other substances (strong oxidizer)
Lower and upper explosion limit / flammability limit	Not applicable (non-flammable)
Flash point	Not applicable (non-flammable)
Auto-ignition temperature	Not applicable (non-flammable)
Decomposition temperature	Decomposes above 180 °C (356 °F) releasing heat; produces toxic and corrosive fumes (chlorine compounds)
pH	> 7
Kinematic viscosity	No data available
Solubility	Miscible with water
Partition coefficient n-octanol/water	Not applicable (inorganic)
Vapour pressure	ca. 23 hPa at 20 °C (as water)
Density and/or relative density	1.2 - 1.3 g/cm3
Relative vapour density	Not applicable
Particle characteristics	Not applicable (liquid)

SECTION 10: Stability and reactivity

Reactivity	Strong oxidant; self-reactive; reacts with acids forming spontaneously explosive chlorine dioxide gas; mixtures with organic matter can be extremely sensitive to heat, impact or friction
Chemical stability	Stable.
Possibility of hazardous reactions	Contact with combustibles such as wood, paper, oil or finely divided metal may cause ignition, combustion or violent decomposition. May emit irritating, poisonous or corrosive fumes.
Conditions to avoid	High temperature.

Incompatible materials	Strong reducing agents, active metal powder, acids, flammable or combustible materials.
Hazardous decomposition products	Hydrogen chloride.

SECTION 11: Toxicological information

Acute toxicity - Oral / Inhalation / Dermal	LD50 Oral - Rat: 165 mg/kg LD50 Dermal - Rabbit: 2,000 mg/kg LC50 Inhalation - Rat: 230 mg/m3/4h
Skin corrosion/irritation	Causes severe skin burns.
Serious eye damage/irritation	Causes serious eye damage.
Respiratory or skin sensitization	Not classified (based on available data)
Germ cell mutagenicity	Not classified (based on available data)
Carcinogenicity	Not classified (based on available data)
Reproductive toxicity	Not classified (based on available data)
STOT - single exposure	Not classified (based on available data)
STOT - repeated exposure	STOT RE 2 (may cause damage to organs through prolonged or repeated exposure, H373) - notified in ECHA C&L Inventory
Aspiration hazard	Not classified (based on available data)

SECTION 12: Ecological information

Toxicity to fish / daphnia / algae	Very toxic to aquatic organisms. Marine pollutant.
Persistence and degradability	Low
Bioaccumulative potential	Low
Mobility in soil	High
Other adverse effects	None known

SECTION 13: Disposal considerations

Product disposal methods	Puncture containers to prevent re-use and bury at an authorized landfill. Dispose of in accordance with local regulations.
Contaminated packaging	Dispose of in accordance with local regulations.

SECTION 14: Transport information

UN Number (ADR/RID, IMDG, IATA)	1908
UN Proper Shipping Name	Chlorite solution
Transport hazard class(es)	8
Packing group	II
Environmental hazards (Marine pollutant)	Yes
Special precautions for user	Keep containers upright, closed and secured during transport.

SECTION 15: Regulatory information

Safety, health and environmental regulations specific for the product	Listed in 'China Classification and Labeling of Dangerous Chemical Substances' and 'China Dangerous Chemicals Names List'

SECTION 16: Other information

Full text of H-Statements	H272 May intensify fire; oxidizer H301 Toxic if swallowed H310 Fatal in contact with skin H314 Causes severe skin burns and eye damage H318 Causes serious eye damage H371 May cause damage to organs (respiratory organs and kidney) H373 May cause damage to organs (heart and blood) through prolonged or repeated exposure H400 Very toxic to aquatic life
Revision date	2026-10-27
Version	1.0

Abbreviations and acronyms: CAS: Chemical Abstracts Service; EC: European Commission; EINECS: European Inventory of Existing Commercial Chemical Substances; ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road; RID: Regulation concerning the International Carriage of Dangerous Goods by Rail; IMDG: International Maritime Dangerous Goods; IATA: International Air Transport Association; TWA: Time Weighted Average; STEL: Short Term Exposure Limit; LD50: Lethal Dose 50%; LC50: Lethal Concentration 50%; EC50: Effective Concentration 50%; PBT: Persistent, Bioaccumulative and Toxic; vPvB: very Persistent and very Bioaccumulative; SDS: Safety Data Sheet.

References: ECHA - European Chemicals Agency, https://echa.europa.eu/; IPCS - International Chemical Safety Cards (ICSC), http://www.ilo.org/; HSDB - Hazardous Substances Data Bank; eChemPortal - OECD Global Portal to Information on Chemical Substances; ERG - Emergency Response Guidebook by U.S. DOT.

Disclaimer: The information in this SDS is only applicable to the specified product and is provided in good faith. It is based on the knowledge available to Richest Group Ltd. at the date of issue and is intended to describe the product for the purposes of health, safety and environmental requirements only. It does not constitute any guarantee of the properties of the product. Richest Group Ltd. shall not be held liable for any damage resulting from handling or from contact with the above product.