

## Material Safety Data Sheet

### Section 1 - Chemical Product and Company Identification

**Samples Name:** disinfectant

**Model :** Powder, granule, tablet disinfectant

**Sample quantity:** 10kg

**Client Name :** Shandong Lichen Chemical Co.,Ltd

**Client Address:** Qingdao, Shandong Province

## Section 2 - Hazards Identification

**Fatalness grade:** In accordance with Regulation (EC) No. 1272/2008, the sample is not divided into dangerous article.

**Invasion route:**

**Eyes contact:** There is no harm in normal use. Direct contact can cause eye irritation.

**Skin contact:** There is no harm in normal use. May be irritating to the skin.

**Inhalation:** Inhalation of this product dust, due to accumulation in the body and cause poisoning, nausea, vomiting, diarrhea, dyspnea, kidney damage and other symptoms

**Ingestion:** Harmful if swallowed

**Health hazards:** It has strong stimulation and corrosiveness to eyes, skin, mucous membrane and upper respiratory tract.

**Environment hazards:** It is slightly harmful to water. Do not discharge materials into the surrounding environment without government permission. It is harmful to the environment and pollutes the atmosphere.

**Burn & burst danger:** The product is not flammable.

## Section 3 –Composition/Information on Ingredient

Pure  Admixture 

### Composition:

Chemical Name	CAS No.	In % By Weight
Sodium chlorite	7758-19-2	10%-15%
Sodium sulfate	7757-82-6	30%-50%
Soda (Food grade)	497- 19-8	10%-25%
Sodium bisulfate	7681-38-1	10%-20%

## Section 4 - First Aid Measures

**Skin touch:** Remove contaminated clothing immediately and rinse with plenty of running water for at least 15 minutes. See a doctor.

**Eyes touch:** Lift the eyelid immediately and rinse with running water or normal saline for 15 minutes. See a doctor.

**Inhalation:** If exposure to fumes from overheating, move to fresh air immediately. Keep the respiratory tract smooth. Use oxygen if available. Get medical aid.

**Ingestion:** Gargle with water and drink milk or egg whites. See a doctor.

## Section 5 - Fire Fighting Measures

**Danger characteristic:** The sample is not flammable. High heat may decompose toxic gases. It is corrosive.

**Hazardous combustion products:** Hydrogen chloride, sulfide.

**Fire-Fighting method & media:** The staff must equip with filtermask (full mask) or isolated breathing apparatus. The staff must wear the clothes which can defense the fire and the toxic gas. Put out the fire in the upwind direction. Remove the container to the open space as soon as possible. Spray water on the containers in the fireplace to keep them cool until finish extinguishment. Avoid using direct current water to extinguish fire. Once through water may cause splashing of combustible liquid and spread the fire. Media: hazy water, foam, powder, CO<sub>2</sub>, sandy clay.

## Section 6 –Accidental Release Measures

### Operator protection measures, protective equipment and emergency handling

**procedures:** Eliminate all ignition sources. According to the influence area of liquid flow and vapor diffusion, a warning zone is defined, and irrelevant personnel are evacuated from the crosswind and upwind to the safe area. It is recommended that emergency personnel wear positive pressure self-contained breathing apparatus and anti-static clothing. All equipment used in the operation should be grounded. Do not touch or cross leaks. Cut off the source of the leak as much as possible. Prevent leaks from entering water bodies, sewers, basements or restricted spaces. Small leakage: absorb with sand or other non-combustible materials. Use clean, non-sparking tools to collect the absorbent material. Large amount of leakage: constructing dikes or digging pits to contain. Cover with alcohol-resistant foam to reduce evaporation. Water spray mist can reduce evaporation, but can not reduce the flammability of the leakage in restricted spaces. Use explosion-proof pump to transfer to tank truck or special collector. Spray water disperses vapors and dilutes liquid spills.

**Environmental protection measures:** contain spills to avoid polluting the environment. Prevent leaks from entering sewers, surface water and groundwater.

**Containment and removal methods of spilled chemicals and disposal materials used:**

**Small leaks:** Collect leaking liquid in sealable containers as much as possible. Absorb with sand, activated carb on or other inert materials and transfer to a safe place. It is forbidden to rush into the sewer.

**Large amount of leakage:** constructing dikes or digging pits to contain. Close the drainage pipe. Cover with fom to suppress evaporation. Use an explosion-proof pump to transfer to tank truck or special collector, and recyceor transport to waste disposal site for disposal.

## Section 7 - Handling and Storage

**Operation notes:** Open flames, sparks and smoking are prohibited. Do not contact with strong oxidants. Closed system, ventilation, explosion-proof electrical equipment and lighting. Do not use compressed air for filling, unloading or transferring. Operators should undergo special training and strictly abide by the operating regulations. Operation and disposal should be carried out in places with local ventilation or full ventilation facilities. Avoid contact with eyes and skin and avoid inhalation of steam. Refer to Section 8 for personal protection measures. Keep away from fire and heat sources. Smoking is strictly prohibited in the workplace. Use explosion-proof ventilation systems and equipment. If canned, the flow rate should be controlled, and there is a grounding device to prevent the accumulation of static electricity. Avoid contact with prohibited substances such as oxidants (for prohibited substances see section 10). Handle with care when loading and unloading to prevent damage to packaging and containers. Empty containers may be harmful residues. Wash hands after use, and do not eat or drink in the workplace. Equipped with corresponding varieties and quantities of fire fighting equipment and leakage emergency treatment equipment.

**Storage:** Stored in dry place And well packed, damp proof, natural ventilation. Separated from Substances that conflict with combustibile substances, reducing substances and other properties (acids, ammonium compounds, phosphorus, sulfur, sodium dithionite). Keep away from fire and heating sources. Equip with relevant types and quantities of the extinguishment instruments.

## Section 8 - Exposure Controls, Personal Protection

**Maximum admissible concentration:** No standard yet

**Monitoring Method:** None.

**Engineering Control:** Closely encrypted. Provide adequate local exhaust.

**Respiratory Protection:** When the concentration in the air exceeds the standard, wear a self-priming filter gas mask (full face mask). When exposed to its vapor, you should wear a gas mask. Wear self-contained breathing apparatus for rescue or escape in emergencies..

**Eyes Protection:** Chemical safety goggles can be worn when exposed to high concentrations of vapor.

**Body Protection:** Wear anti-poison penetration work clothes.

**Hands Protection:** Wear rubber gloves.

**Other Protections:** Smoking, eating and drinking are prohibited on the job site. After work, take a bath and change clothes. Maintain good hygiene habits. Provide shower and eye wash facilities.

## Section 9 - Physical and Chemical Properties

**Appearance:** Solid

**Color:** White

**Odour:** Chlorine

**PH :** 5~7 PH:

**Boiling point/range:** 884 °C

**Melting point/range:** 240~250

**Density:** g/mL,25/4 °C

**Solubility:** Easily soluble in water

## Section 10 - Stability and Reactivity

**Stability:** Stable under normal temperature and pressure.

**Incompatible materials:** Substances that conflict with combustible substances, reducing substances and other properties (acids, ammonium compounds, phosphorus, sulfur, sodium dithionite)

**Conditions to avoid:** Do not expose to sunlight and close to heat and fire sources.

**Hazardous Polymerization:** None.

**Hazardous Decomposition Products:** Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11 - Toxicological Information

**Acute Toxicity:** No specific data.

**Sub-acute and Chronic Toxicity:** No specific data.

**Irritation:** No specific data.

**Sensitization:** No specific data.

**Mutagenicity:** No specific data.

**Carcinogenicity:** No specific data

**Others:** Not available.

## Section 12 - Ecological Information

**Eco-toxicity:** No specific data.

**Biodegradable:** No specific data.

**Non-biodegradable:** No specific data.

**Bioconcentration or biological accumulation:** No specific data.

**Other harmful effects:** No specific data.

## Section 13 - Disposal Considerations

**Nature of waste:** This product is not regarded as hazardous waste, as defined by Regulation (EC) No. 1272/2008.

**Waste disposal methods:** Refer to National or Local regulations before handling.

**Attention abandoned:** Prevent waste from going directly into sewers, surface water and groundwater.



## Section 14 - Transport Information

**Number of dangerous goods:** No applicable.

**UN Number:** No applicable.

**Packaging Mark:** No applicable.

**Packaging Method:** No specific data.

**Packaging Information:** No specific data.

**Transport Fashion:** By air, sea, rail, highway

**Transport Attentions:** Examine whether the package of the containers are integrate or not before transport. No divulgence, no collapse, no precipitation or no damage during the course of transportation. Don't put the goods together with oxidizer and strong acid. The transport vehicle and ship must be cleaned and sterilized otherwise it is not allowed to assemble articles. During transport, the vehicle should prevent exposure, rain and high temperature. For stopovers, the vehicle should be away from fire and heat sources. When transported by sea, the assemble place should keep away from bedroom and kitchen, and isolated from the engine room, power and fire source.

## Section 15 - Regulatory Information

**Regulatory Information:** ISO 11014-2009 Safety data sheet for chemical products - Content and order of sections.

**Regulation (EC) No. 1272/2008** Classification, Labelling and Packaging of Substances and Mixtures.

## Section 16 - Additional Information

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier, nor any its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

\*\*\* End of Report \*\*\*