**Clay stabilizer FC-CS11L**

**Chemical Safety Data Sheet**

**Section 1: Product name**

Product name: clay stabilizer FC-CS11L

**Section 2: Hazard Overview**

GHS hazard category:

According to the series of standards for classification, warning label and warning description of chemicals, the product is not classified.

Physical and chemical hazards: This product is incombustible.

Health hazard: Eye contact causes mild eye irritation. Skin contact causes slight skin irritation. Inhalation causes respiratory tract irritation. Ingestion and entry into the lungs may cause lung damage.

Environmental hazards: No data available.

**Section 3: Composition/information on ingredients**

|  |  |  |  |
| --- | --- | --- | --- |
| Type | Main component | Content | CAS NO. |
| FC-CS11L | 3-Chloro-2-hydroxypropyltrimethyl ammonium chloride | 30-50% | 3327-22-8 |
| Water | 50-70% | 7732-18-5 |

**Section 4: First aid measures**

First aid:

-Skin contact: Take off contaminated clothes immediately and wash with plenty of flowing clean water. If irritation occurs, seek medical advice.

-Eye contact: Lift the eyelids and wash them with flowing clean water or normal saline for several minutes. If irritation persists, seek medical attention.

-Inhalation: Leave the site to a place with fresh air and clean the respiratory tract and check the respiration and pulse. If you feel unwell, consult a doctor.

-Ingestion: Rinse mouth. drink water. If you feel unwell, consult a doctor.

**Section 5: Firefighting measures**

Special hazard: This product is not flammable.

Extinguishing method and extinguishing agent: Use fog water, foam, carbon dioxide and sand to extinguish the fire.

Precautions and measures for fire fighting:

Firefighters must wear positive pressure self-contained breathing apparatus and full body fire fighting clothes to extinguish the fire in the upwind direction. Move containers from the fire site to an open place as much as possible. Spray water to keep the fire site container cool until the fire is extinguished.

**Section 6: Accidental release measures**

Protective measures, protective equipment and emergency disposal procedures for operators:

Eliminate all sources of ignition. The warning area shall be demarcated according to the influence area of liquid flow and steam diffusion, and irrelevant personnel shall evacuate from the crosswind and upwind to the safe area. It is recommended that emergency treatment personnel wear filter respirators, safety goggles, rubber gloves and protective clothing. Avoid contact with leakage. Cut off the source of leakage as much as possible.

Environmental protection measures: Prevent leakage to water sources, sewers and confined spaces.

The methods of receiving and removing leaked chemicals and the disposal materials:

In case of small spillage, absorb it with sand or other inert materials and collect it in appropriate containers for disposal.

In case of large spillage, build a dike or dig a pit to receive. Transfer to the container or special collector with a pump, and recycle or transport to the waste disposal site for disposal.

**Section 7: Handling and storage**

Precautions for operation:

Closed operation, local and general ventilation and exhaust. The operators must be specially trained and strictly abide by the operating procedures. It is recommended that operators wear self-priming filter gas masks (half masks), safety goggles, rubber gloves and protective clothing. Keep away from kindling and heat sources. Smoking is strictly prohibited in the workplace. It is prohibited to use tools and equipment that are easy to generate sparks. Avoid contact with eyes and skin, inhalation and ingestion, and wash thoroughly after operation. Avoid contact with oxidants. Handle with care to prevent damage to packaging and containers. Empty containers may have harmful residue.

Storage precautions:

Packaging shall be sealed. Store in a dry, cool and ventilated warehouse. Keep away from kindling and heat source. It shall be stored separately from oxidants and shall not be mixed. Avoid using tools and equipment that are easy to generate sparks. The storage area shall be equipped with leakage emergency treatment equipment and appropriate materials.

**Section 8: Exposure Control/Personal Protection**

Exposure limit: No standard is formulated.

Biological limit: No data available.

Monitoring method: No data available.

Engineering control: The production process is sealed, with local and comprehensive ventilation and exhaust. Provide safety shower and eyewash equipment.

Respiratory system protection: If the concentration in the air exceeds the standard, it is recommended to wear a self-priming filter type gas mask (half mask).

Eye protection: Wear splash proof safety glasses.

Skin and body protection: Wear chemical protective clothing.

Hand protection: Wear anti-corrosion rubber gloves.

**Section 9: Physical and Chemical Properties**

|  |  |
| --- | --- |
| Appearance and properties: Colorless to yellowish transparent liquid |  |
| PH value (indicated concentration): 6-7 | Melting point/freezing point (℃): No data available |
| Boiling point, initial boiling point and boiling range (℃): No data available | Density: 1.02-1.15 |
| Relative vapor density (air=1): No data available | Relative density (water=1): No data available |
| Combustion heat (kJ/mol): No data available | Saturated vapor pressure (kPa): No data available |
| Critical pressure (MPa): No data available | Critical temperature (℃): No data available |
| Flash point (℃): ≥200℃ | n-octanol/water partition coefficient: No data available |
| Decomposition temperature (℃): No data available | Ignition temperature (℃): No data available |
| Lower explosive limit [% (V/V)]: No data available | Upper explosive limit [% (V/V)]: No data available |
| Odour threshold: No data available | Evaporation rate: No data available |
| Flammability: Non flammable |  |
| Solubility: Soluble in water |  |

**Section 10: Stability and Reactivity**

Stability: Stable under normal conditions.

Forbidden compound: Strong oxidants.

Conditions to avoid: High heat, open fire and exothermic substances.

Hazardous reaction: No data available.

Hazardous decomposition products: No data available.

**Section 11: Toxicological information**

Acute toxicity: No data available.

Skin irritation or corrosion: No data available.

Eye irritation or corrosion: No data available.

Respiratory or skin allergy: No data available.

Germ cell mutagenicity: No data available.

Carcinogenicity: No data available.

Reproductive toxicity: No data available.

Specific target organ systemic toxicity - single exposure: No data available.

Specific target organ systemic toxicity - repeated exposure: No data available.

Inhalation hazard: No data available.

**Section 12: Ecological information**

Ecotoxicity: No data available.

Persistence and degradability: No data available.

Potential bioaccumulation: No data available.

Mobility in soil: No data available.

**Section 13: Disposal considerations**

Waste disposal method:

-Product: Disposal shall be carried out according to relevant national and local rules.

-Contaminated packaging: Return the container to the manufacturer or dispose according to national and local regulations.

Disposal precautions: Refer to relevant national and local regulations before disposal.

**Section 14: Transportation Information**

UN Number of Dangerous Goods: -

UN Shipping Name: -

UN Hazard Classification: -

Packing type: -

Packing mark: -

Packaging method: Kraft paper bag, product packaging unit: 25KG/bag.

Marine pollutants (Yes/no): -

Precautions for transportation:

Check whether the packaging container is complete and sealed before transportation. Ensure that the container does not leak, collapse, fall or damage during transportation. It is strictly prohibited to mix with oxidants, edible chemicals, etc. During transportation, it shall be protected from exposure to sun, rain and high temperature. The exhaust pipe of the vehicle transporting this article must be equipped with a fire retardant device. It is prohibited to use mechanical equipment and tools that are easy to generate sparks for loading and unloading. Transport vehicles shall be equipped with fire fighting equipment of corresponding types and quantities and leakage emergency treatment equipment.

**Section 15: Regulatory Information**

Regulatory information:

Series of standards for classification, warning label and warning description of chemicals (GB 20576-2006～GB20602-2006).

*Directory of Dangerous Chemicals*: Not included.

*Catalogue of Highly Toxic Chemicals*: Not included.

*List of Dangerous Goods* (GB 12268-2012): Not included.

**Section 16: Other Information**

Date of latest revision:

Modification description:

The previous version of SDS is revised according to the *Content and Item Sequence of the Chemical Safety Data Sheet* (GB/T16483-2008).