

Product Safety Data

Product Name: **HydroTherm**

Company Name: Hydro Co., Ltd.

Address: 2-5-8 Shinkawa, Chuo-ku, Tokyo

Telephone Number: +81 70-8317-8946

Identification of the Substance

Distinction between single substance or mixture	: Mixture
Chemical Name	: Silicate Compound
Components	: Silicate, Water
Chemical formula or molecular structure	: Omitted

Classification of Hazards

- Classification Name: Not applicable
- Hazard: Not applicable
- Toxicity: In case of eye contact, immediately wash with clean water for at least 15 minutes.

First Aid Measures

- If in eyes : Immediately flush with running water for at least 15 minutes and seek medical advice.
- If on skin : Immediately wash off with running water and cleanse thoroughly with soap. Seek medical advice.
- If inhaled : Rest in fresh air and seek medical advice if symptoms occur.
- If swallowed: Rinse mouth thoroughly with water.

Measures in Case of Fire

- Extinguishing Methods : This product is non-flammable.
- Extinguishing Media : Not applicable.

Leakage Precautions : Evacuate downwind persons. Prohibit entry to the surrounding area. Remove nearby strong acids, metals, and ignition sources. Always wear protective gear during cleanup. Perform cleanup upwind. Contain spill with sand or soil, then collect in empty containers. Wash area thoroughly with a large amount of water after collection.

Handling and Storage Precautions

- Handling : Use protective eyewear and gloves. Use in a well-ventilated area to avoid inhalation.
- Storage : Store in a sealed container in a cool, dark place indoors.

Exposure Controls

- Management Number : Not applicable
- Permissible Concentration
 - Japan Society for Occupational Health: Not applicable as per (1996 edition)
 - ACGIH: Not applicable as per (1997 edition)
- Engineering Controls : General and local exhaust systems, eyewash stations, body showers.
- Respiratory Protection : Not applicable
- Protective Eyewear : Safety goggles
- Protective Gloves : Rubber or vinyl gloves
- Protective Clothing : Boots, aprons, etc.

Physical/Chemical Properties

- Appearance : Colorless and transparent
- Odor : Slight odor
- Boiling Point : 90°C
- Vapor Pressure : 76.5mmHg at 20°C, 189.8mmHg at 50°C
- Volatility : None
- Melting Point : Data not available
- Specific Gravity : 1.25 at 20°C
- Solubility in Water : Dispersible
- Other : Data not available

Hazard Information

- Flash Point : Not applicable
- Flammability : Not applicable
- Explosive Limits : Not applicable
- Reactivity with Water : None
- Oxidizing Properties : None
- Self-reactivity/Explosiveness : None
- Dust Explosiveness : None
- Stability and Reactivity : Contact with metals such as aluminum, magnesium, and zinc may produce hydrogen.
- Other : Data not available

Toxicological Information (Including Case and Epidemiological Studies)

•Skin Corrosion	: Data not available
•Irritation (Skin, Eye)	: Data not available
•Sensitization	: Data not available
•Acute Toxicity	: Data not available
•Subacute Toxicity	: Data not available
•Chronic Toxicity	: Data not available
•Carcinogenicity	: Data not available
•Mutagenicity (Microorganisms/Chromosomes)	: Data not available
•Reproductive Toxicity	: Data not available
•Teratogenicity	: Data not available
•Other	: Data not available

Environmental Impact Information

•Degradability	: Data not available
•Bioaccumulation	: Data not available
•Detoxification	: Data not available
•Other	: Data not available

Disposal Considerations

- Dispose of in accordance with waste disposal laws and regulations.

Transport Information

- Domestic: No specific restrictions as the substance does not fall under applicable laws (Road Traffic Law, Fire Service Law, etc.).
- International: Follow the transportation laws as defined in the Ship Safety Law, Aviation Law, etc.

Applicable Laws and Regulations

- Hazardous Materials Shipping and Storage Regulations
- Ship Safety Law
- Aviation Law

Other

- References : ACGIH Chemical Substances TLV, Chemical Product Safety Management Data Book (Chemical Daily Co., Ltd.)

Caution for Use

- This product is developed and manufactured for general industrial purposes. If used for medical or other special purposes, ensure its safety through testing and verification by your company. Do not use for purposes involving implantation into the body, injection, or where there is a risk of remaining inside the body.

About This Document

The information provided here is based on data, information, and materials obtained by our company as of the current date and may be revised based on new findings. The precautions mentioned are for normal handling and special handling may require appropriate safety measures according to the purpose and method of use.

