

Safety Data Sheet (SDS)

1 IDENTIFICATION

Product Identifier	
Product Name:	YLEXSITE
Supplier's Details	
Manufacturer:	YLEX•REWATER Co., Ltd.
Department in Charge:	General Affairs Department
Address:	4-9-10 Sekido, Tama-shi, Tokyo 206-0011, Japan
Phone:	+81-42-311-9081
Fax:	+81-42-311-9082
Email Address:	rewater@ylex.co.jp
Recommended Use and Restrictions on Use:	Flocculant

2 HAZARD IDENTIFICATION

GHS Classification

Physical and Chemical Hazards:	Explosives	Not applicable
	Flammable gases	Not applicable
	Flammable aerosols	Not applicable
	Oxidizing gases	Not applicable
	Gases under pressure	Not applicable
	Flammable liquids	Not applicable
	Flammable solids	Category 2
	Self-reactive substances and mixtures	Not applicable
	Pyrophoric liquids	Not applicable
	Pyrophoric solids	Not classified
	Self-heating substances and mixtures	Not classified
	Substances and mixtures which, in contact with water, emit flammable gases	Not classified
	Oxidizing liquids	Not applicable
	Oxidizing solids	Not applicable
	Organic peroxides	Not applicable
	Corrosive to metals	Category 1
	Health Hazards:	Acute toxicity (oral)
Acute toxicity (dermal)		Category 4
Acute toxicity (inhalation: gas)		Not applicable
Acute toxicity (inhalation: vapor)		Not applicable
Acute toxicity (inhalation: dust)		Category 4
Acute toxicity (inhalation: mist)		Not applicable
Skin corrosion/irritation		Not applicable
Serious eye damage/eye irritation		Category 2
Respiratory sensitization		Not applicable
Skin sensitization		Not applicable
Germ cell mutagenicity		Not applicable
Carcinogenicity		Category 1
Reproductive toxicity		Not applicable
Specific target organ/systemic toxicity (single exposure)	Category 1 (respiratory system)	
Specific target organ/systemic toxicity (repeated exposure)	Category 1 (respiratory system, kidneys)	
Aspiration hazard	Not applicable	
Environmental Hazards:	Hazardous to the aquatic environment (acute)	Not applicable
	Hazardous to the aquatic environment (long-term)	Not applicable

Label Elements

Symbols:



Signal Words:

Danger

Hazard Statements:

May be harmful if swallowed
 May be harmful in contact with skin
 May cause eye irritation
 Harmful if inhaled
 May cause cancer
 Causes damage to the respiratory system
 May cause drowsiness or dizziness
 Causes damage to the respiratory system and kidneys through prolonged or repeated exposure

Precautionary Statements

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

Prevention:

Wear protective equipment or use ventilation equipment as needed to avoid exposure to dust or inhaling it.
 Do not eat, drink or smoke when using this product.
 Do not breathe dust.
 Wear protective gloves/respiratory protection/protective clothing/eye protection/face protection.
 Wash hands thoroughly after handling.

Response:

IF IN EYES: Immediately flush with running water, and get medical attention if necessary.
 IF ON SKIN: Wash with water.
 IF INHALED: Move to an area with fresh air. Then blow your nose and gargle with water.
 IF SWALLOWED: Have the victim drink plenty of water (with or without salt) and induce vomiting. If the victim has swallowed a large amount, make sure the victim get medical attention.

Storage:

Store in a well-ventilated place. Keep container tightly closed. Keep cool.

Disposal:

Dispose of contents/container via a waste disposal contractor licensed by local authorities.

Other Hazards:

No information available

3 COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture

Composition and Information on Ingredients

Chemical Name or Common Name	CAS No.	Class Reference Number in the Gazetted List	Concentration or Concentration Range (%)
Fly ash	14808-60-7	(1)-548	10 to 30
	1305-78-8	(1)-189	
Natural zeolite	1318-02-1	–	10 to 30
Sodium carbonate	497-19-8	(1)-164	10 to 30
Calcium carbonate	471-34-1	(1)-122	10 to 30
Silicon	7440-21-3	–	5 to 15
Iron powder	7439-89-6	–	3 to 7

4 FIRST-AID MEASURES

Inhalation:

Move to an area with fresh air and keep comfortable for breathing.
 Seek medical attention if symptoms persist.

Skin Contact:

Immediately flush with water, and seek medical advice if necessary.

Eye Contact:

Immediately flush with clean water, and seek medical attention.

Ingestion: Have the victim drink plenty of water and induce vomiting. Seek medical attention.

Most Important Symptoms/
Effects, Acute and Delayed: Inhalation: Coughing, sore throat
Skin contact: Redness
Eye contact: Redness, pain
Ingestion: Burning sensation, nausea, vomiting

5 FIRE-FIGHTING MEASURES

Extinguishing Media: Use extinguishing media appropriate to the surrounding fire conditions.
Unsuitable Extinguishing Media: None
Specific Hazards Arising from the Chemical: May emit toxic fumes under fire conditions.
Special Fire-Fighting Procedures: Stay upwind of the fire.
Restrict unauthorized entry into the fire area.
In case of fire in the surroundings, douse the surrounding equipment with water to cool it.
Move the container from the fire area if it can be done without risk.
If moving the container (bag) is impossible, cool it and its surroundings by dousing them with water.

6 ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures: Prohibit unauthorized entry into the spillage area.
Wear protective equipment when entering the spillage area.
Stay upwind. Do not breathe dust, vapors, or fumes.
If necessary, spray water to prevent dust from spreading into the air.
If spillage has occurred in a confined space, ensure adequate ventilation before entry.
Environmental Precautions: Be sure to prevent the spillage from entering rivers, sewers, or soil.
Recovery and Neutralization: Collect the spillage into an empty container that can be sealed.
If necessary, moisten the spillage with a spray of water before collecting it, to prevent it from spreading into the air.
After collecting the spillage, dispose of it properly as industrial waste.
Methods and Materials for Containment and Cleaning Up: Prevent further spillage if safe.
Prevention of Secondary Hazards: Prevent entry into drains, sewers, basements, or closed areas.

7 HANDLING AND STORAGE

Handling
Technical Measures: Avoid dust generation.
Local and General Ventilation: Use local or general ventilation as needed.
Do not handle until all safety precautions have been read and understood.
Do not drag the container, subject it to impact by dropping it, or otherwise mishandle it.
Wash hands thoroughly after handling.
Avoidance of Contact: Avoid contact with moisture, water, or hot objects.
Storage
Technical Measures: Keep the storage area clean to protect the product from contamination.
Storage Conditions: Avoid direct sunlight, high temperature, and high humidity. Keep the storage area as dry as possible.
Keep the container tightly closed. Store in a cool, dark place.
Keep the container away from incompatible materials, food, and feed.
Packaging Materials: Use material that is as moisture-proof as possible and is not damaged or leaking.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Allowable Concentration
Control Concentration: 0.06 mg/m³
Values Recommended by the Japan Society for Occupational Health
Allowable Concentration: Respirable dust: 0.3 mg/m³; total dust: 1.2 mg/m³
Engineering Measures: If the product is to be used indoors, install ventilation equipment of sufficient capacity to maintain the control concentration at or below the specified level.
Personal Protective Equipment

Respiratory Protection:	Dust mask
Hand Protection:	Protective gloves (rubber or plastic)
Eye Protection:	Protective eyewear (goggles)
Skin and Body Protection:	Protective boots and clothing

9 PHYSICAL AND CHEMICAL PROPERTIES

Basic Information on Physical and Chemical Properties

Appearance:	White or gray
Odor:	Characteristic
pH	5 to 7
Solubility:	Slightly soluble in water
Boiling Point:	No data available
Flash Point:	Non-flammable
Explosion Limits:	No data available
Auto-Ignition Temperature:	Non-flammable

10 STABILITY AND REACTIVITY

Chemical Stability:	Stable under normal conditions. May cure in the presence of moisture (water).
Possibility of Hazardous Reactions:	Reacts with hydrofluoric acid and strong alkaline solutions.
Conditions to Avoid:	Sunlight, heat, humidity
Incompatible Materials:	Strong acid, metallic magnesium, phosphorus pentoxide
Hazardous Decomposition Products:	Calcium oxide, carbon dioxide

11 TOXICOLOGICAL INFORMATION

Toxicological Information on Ingredients

(1) Fly ash

Skin Corrosion/Irritation:	May become alkaline on contact with water, causing eye and skin irritation. Prolonged skin contact may cause inflammation.
Specific Target Organ Toxicity: (Repeated Exposure)	Prolonged inhalation may cause pneumoconiosis.

(2) Natural zeolite

Acute Toxicity:	No information available
Skin Corrosion/Irritation:	May cause rashes and inflammation in some people.
Serious Eye Damage/Irritation:	May cause eye and skin irritation in some people.
Chronic Toxicity:	Prolonged inhalation of dust can impair the function of the lungs.

(3) Sodium carbonate

Acute Toxicity (Oral):	Category 5 May be harmful if swallowed
Acute Toxicity (Dermal):	Category 5
Acute Toxicity (Inhalation: Gas):	Classification not possible
Acute Toxicity (Inhalation: Vapor):	Classification not possible
Acute Toxicity (Inhalation: Dust):	Category 4
Skin Corrosion/Irritation:	Not classified
Serious Eye Damage/Irritation:	Category 1
Respiratory Sensitization:	Classification not possible
Skin Sensitization:	Classification not possible
Germ Cell Mutagenicity:	Classification not possible
Carcinogenicity:	Classification not possible
Reproductive Toxicity:	Classification not possible
Specific Target Organ/Systemic Toxicity: (Single Exposure)	Category 3
Specific Target Organ/Systemic Toxicity: (Repeated Exposure)	Classification not possible
Aspiration Hazard:	Classification not possible

(4) Calcium carbonate

Acute Toxicity (Oral):	Not classified
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Acute Toxicity (Dermal):	Classification not possible
Acute Toxicity (Inhalation: Gas):	Classification not possible
Acute Toxicity (Inhalation: Vapor):	Classification not possible
Acute Toxicity (Inhalation: Dust):	Classification not possible
Skin Corrosion/Irritation:	Category 2
Serious Eye Damage/Irritation:	Category 2
Respiratory Sensitization:	Classification not possible
Skin Sensitization:	Classification not possible
Germ Cell Mutagenicity:	Classification not possible
Carcinogenicity:	Classification not possible
Reproductive Toxicity:	Classification not possible
Specific Target Organ/Systemic Toxicity: (Single Exposure)	Classification not possible
Specific Target Organ/Systemic Toxicity: (Repeated Exposure)	Classification not possible
Aspiration Hazard:	Classification not possible
 (5) Silicon	
Acute Toxicity (Oral):	Not classified
Acute Toxicity (Dermal):	Classification not possible
Acute Toxicity (Inhalation: Gas):	Classification not possible
Acute Toxicity (Inhalation: Vapor):	Classification not possible
Acute Toxicity (Inhalation: Dust):	Classification not possible
Skin Corrosion/Irritation:	Classification not possible
Serious Eye Damage/Irritation:	Category 2B
Respiratory Sensitization:	Classification not possible
Skin Sensitization:	Classification not possible
Germ Cell Mutagenicity:	Classification not possible
Carcinogenicity:	Classification not possible
Reproductive Toxicity:	Classification not possible
Specific Target Organ/Systemic Toxicity: (Single Exposure)	Classification not possible
Specific Target Organ/Systemic Toxicity: (Repeated Exposure)	Classification not possible
Aspiration Hazard:	Classification not possible
 (6) Iron powder	
Acute Toxicity (Oral):	Classification not possible
Acute Toxicity (Inhalation: Vapor):	Classification not possible
Acute Toxicity (Inhalation: Dust):	Classification not possible
Skin Corrosion/Irritation:	May cause physical irritation.
Serious Eye Damage/Irritation:	Causes physical irritation.
Respiratory Sensitization:	Classification not possible
Skin Sensitization:	Classification not possible
Germ Cell Mutagenicity:	Classification not possible
Carcinogenicity:	Classification not possible
Reproductive Toxicity:	Classification not possible
Specific Target Organ/Systemic Toxicity: (Single Exposure)	Category 3
Specific Target Organ/Systemic Toxicity: (Repeated Exposure)	Classification not possible
Aspiration Hazard:	Classification not possible

12 ECOLOGICAL INFORMATION

Ecological Information on Ingredients

(1) Fly ash

Acute Aquatic Toxicity:	Classification not possible
Chronic Aquatic Toxicity:	Classification not possible
Ecotoxicity:	No information available
Persistence and Degradability:	Not degradable
Bioaccumulative Potential:	Not bioaccumulative
Mobility in Soil:	No information available
Effect on the Ozone Layer:	No information available

(2) Natural zeolite

Ecotoxicity:	No information available
Persistence and Degradability:	No information available
Bioaccumulative Potential:	No information available
Mobility in Soil:	No information available
Effect on the Ozone Layer:	No information available

(3) Sodium carbonate

Acute Aquatic Toxicity:	Not classified
Chronic Aquatic Toxicity:	Not classified
Effect on the Ozone Layer:	Classification not possible

(4) Calcium carbonate

Acute Aquatic Toxicity:	Not classified
Chronic Aquatic Toxicity:	Not classified
Effect on the Ozone Layer:	Classification not possible

(5) Silicon

Acute Aquatic Toxicity:	Not classified
Chronic Aquatic Toxicity:	Not classified
Effect on the Ozone Layer:	Classification not possible

(6) Iron powder

Acute Aquatic Toxicity:	Classification not possible Not degradable (because it is an element.)
Chronic Aquatic Toxicity:	Classification not possible
Effect on the Ozone Layer:	Classification not possible

13 DISPOSAL CONSIDERATIONS

Waste Disposal Method:

Dispose in accordance with the Waste Management and Public Cleansing Law.
Take extra care to comply with the Water Pollution Control Law and other relevant laws and regulations when discharging water that has been used to clean up areas contaminated by the product or that has come into contact with it.

Contents, Containers, and Packaging:

Have the contents, containers, and packaging disposed of by a waste disposal contractor licensed by local authorities.

14 TRANSPORT INFORMATION

International Regulations:

N/A

Domestic Regulations:

Land transport

N/A

Sea transport

Follow the Ship Safety Law.

Air transport

N/A

Specific Precautionary Transport Measures and Conditions:

Obey the handling and storage instructions. Be careful that there are no water leaks or tears in the packaging bags.

15 REGULATORY INFORMATION

Waste Management and Public Cleansing Law:	Applicable
Industrial Safety and Health Law:	The Ordinance on Prevention of Hazards Due to Dust applies.
Pneumoconiosis Law:	Applicable
Poisonous and Deleterious Substances Control Law:	N/A
Fire Service Law:	N/A
Ship Safety Law:	N/A
Ordinance on Prevention of Hazards Due to Specified Chemical Substances:	N/A

16 OTHER INFORMATION

Japan Advanced Information Center of Safety and Health, Japan Industrial Safety and Health Association
National Institute of Technology and Evaluation (NITE)
MSDS and other information from the manufacturer
About This SDS

The information contained herein may be incomplete because not all relevant documents and literature have been studied.