

Material Safety Data Sheet (SDS)  
[For mixture (for paint)]

1. Product and company information

Product name : INSULATION FILLER Color: White  
Company name : Hoei sangyou Co.,Ltd.  
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2. Summary of hazard

[ GHS classification ]

Physical hazards

Flammable liquid :Not classified

Health hazards

Acute toxicity (oral) :Not classified  
Acute toxicity (dermal) :Not classified  
Acute toxicity (inhalation:vapor) :Classification not possible  
Acute toxicity (inhalation:dust/mist) :Classification not possible  
Skin corrosion / irritation :Not classified  
Serious eye damage / eye irritation :Category 2  
Respiratory sensitization :Not classified  
Skin sensitization :Not classified  
Germ cell mutagenicity :Not classified  
Carcinogenicity :Category 2  
Reproductive toxicity :Not classified  
Specific target organs /systemic toxicity (single exposure) :Not classified  
Specific target organs /systemic toxicity (repeated exposure) :Category 1  
Aspiration hazard category :Classification not possible

Environmental hazard

Aquatic environment chronic hazard :Not classified  
Aquatic environment acute harmfulness :Not classified  
Hazardous to the ozone layer :Classification not possible

[GHS label elements]

Signal ward : Danger



[Hazardous information]

:Causes serious eye irritation.  
:Suspected of causing cancer.  
:Causes damage to organs and through prolonged or repeated exposure.  
(The respiratory .)

Instruction

[Precaution]

:In the handling workspace, please provide a local exhaust system with no flames.  
:Ventilation is good while handling, so as not to inhale steam, necessary  
please respond accordingly to mask for organic gas or as mask for gas supply.  
:Protective eyeglasses, protective gloves, long sleeve work clothes so as not  
to touch the eyes and the skin please wear it.  
:After handling , please wash your hands and gargle thoroughly

[First aid measures]

:In case of fire, please use carbon dioxide gas, foam or powdered fire extinguisher.  
:In case of contact with eyes, wash with plenty of water for at least 15 minutes,  
promptly doctor's diagnosis please receive.  
:If you feel bad by inhaling steam , gas etc., clean air

please rest at the place and receive a doctor's diagnosis if necessary.  
 :If it adheresto the skin, wash it off with soapy water, it will cause pain or appearance when there is a chage, please consult a doctor promptly.  
 :In case of accidental swallowing, get medical attention immediately.

[Storage]

:Keep locked and stored.

[Leakage]

:If spilling from the containerswipe it off with sand, cloth or the like, please collect it in a container filled with water.

[Disposal]

:Contents and containers, specialized waste received permission from the perfectural governor please consign it to a processing company.

3. Composition / information on ingredients

Distinction between chemical substance and mixturres : Mixture  
 Chemical name or general name :Water base architectual paint.

ingredients	CAS.No	Content (wt%)	CSCL	Safety law
Modified acrylic resin		30~35		
Additives		<7		
Titanium dioxide	13463-67-7	1~5	1-558	No. 191
Propylene glycol	57-55-6	≤ 1	2-234	
Micro capsule		15~20		
Water		35~40		

4. First aid measures

After eye contact

:Immediately wash with plenty of clean running water for at least 15 minutes.  
 Remove contact lense when worn and can be removed easily.  
 Wash thoroughly to the back of the eyelids.  
 Get medical attention immediately.

After swallowing

:In case of accidentalswallowing, wash the inside of the mouth with water, rest set up SDS immediatelv present and submit a doctor's diagnosis.

After skin contact

:Remove adhered clothesand shoes, while flowing water or cool water while adhering parts wash.  
 :Rinse thoroughly with plenty of water and soap or skin

After inhalation

: Inhale steam, gas etc., and if you feel sick immediately transfer to a fresh place of freshness, endeavor to rest and keep warm, medical attention promptly.

Protection of first-aiders

:Wear appropriate pritective equipment (protective glasses, protective masks, gloves, etc.) according to the situation.

5. Fire - fighting measures

Extinguishing media

:Water , carbon dioxide , foam , chemical powder , dry sand

Unsuitable extinguishing media

:Straight stream may spread a fire.

Specific fire extinguishing method

:For initial fire, powder , carbon dioxide , etc. are used.  
 :In case of a large-scale fire , it is necessary to shut off the air using a foam etc.  
 It is valid, in the case of a surrounding fire cool the surrounding equipment by spraying water.  
 Transfer the movable container to a safe place in a prompt manner.

Protection of firefighter

:When extinguishing fire, wear air respirator, chemical protective clothing.

## 6. Accidental release measures

### Personal precautions.

#### Protective equipment and emergency procedures.

- :In the case of indoors, ventilate thoroughly until treatment is completed.
- :Approach outside stakeholders by stretching a rope around the leaky place Ban.
- :When handling the work, use protective equipment.  
(rubber gloves, protective eyeeglasses, breathing protection, etc.)
- Do not wear and adhere to the skin or inhales gas / vapor.
- :Work from the windward side and evacuate people leaning downwind.
- :Prepare fire extinguishing equipment in case of ignition.
- :In case of large amount, people are safely withdrawn.

#### Environmental precautions

- :Be careful not to let spills enter the river etc.  
In case of flowing into a river or the like, contact the fire department, river management department, waterworks bureau, public health center, agricultural cooperative, fishery cooperative etc as necessary.
- :Appropriate measure such as reporting to the surrounding residents that a leak has occurred due to the occurrence of a bad smell etc.

#### Recovery

- :In case of small amount, wipe with dry sand, sawdust, cloth etc, and collect it in a sealable container. Discard it later.
- :In case of a large amount, stop the flow path with blankets, sandbags, etc., and collect with a vacuum.

#### Containment and purification methods equipment

- :Stop leak if it is not dangerous.
- :All equipment used when handling spills is grounded.

#### Measures to prevent secondary disasters

- :Remove nearby waste fire sources promptly, prepare fire extinguishers for ignition.

## 7. Handling and Storage

### Precaution for handling

- :Provide ventilation and wear protectors.  
Avoid exposing by supplying an appropriate protection tool and ventilator.  
Keep container tightly closed.  
Wear protection equipment while the work, avoid eye, skin, and clothing contact.  
Wash hand, face and well gargle after handling.

### Precaution for storage

- :Avoid freezing, direct sunlight, keep in a well-ventilated place.  
Avoid overturn, fall-down.

### Precaution for painting

- :Provide local exhaust ventilation or general ventilation.  
Avoid prolonged or repeated exposure.

## 8. Exposure controls and personal protection

### Adopted value, Control value

	Control value	Adopted value	【ACGIH(TLV)】
Equipment measures	4 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	

- :Use designated explosion-proof electricity, ventilation and lighting equipment
- :Take precautionary measures against electrostatic discharge.
- :Ventilate for exhaust to keep airborne concentrations below exposure limits.
- :When mist occurs in the process at high temperature handling, control the air pollutant to the controlled concentration install a ventilator to keep it below
- :Do not handle unless sealed equipment, equipment or local exhaust is used.  
In order to keep the air concentration below the recommended management concentration below, it is necessary to seal the process.  
use other equipment countermeasures.
- :Store facial cleanser and safety shower in workspaces where this material is

not stored and handled.

Protective equipment

Respiratory protection

:Wear respiratory protective equipment (gas mask for organic gas, air line mask

Hand protection.

:Wear oil resistant protective gloves.

Eye protection

:Wear safety glasses ( ordinary glasses type,ordinary glasses type with side plate ,goggletype).

Skin and body protection

:Wear protective clothing(antistatic type) and protective shoes(antistatic type

## 9. Physical and chemical properties

Shape	: Liquid
Color	: White
Odor	: Slightly acrylic odor
pH value	: 7.5~8.0
Meltig point ·Freezing point	: 0 °C
Initial boiling point and boiling range	: 100 °C (boiling point )
Flash point	: None
Explosive range	: No date
Vapor pressure	: No date
Vapor dencity	: No date
Density	: 0.40 ± 0.05
Solubility	: Soluble in water
n-octanol/water(log value)	: No date
Auto ignition temperature	: No date
Decomposition temperature	: No date
Flammability(solid, gas)	: Not applicable
Viscosity	: 22 ±4 Pa.s (BH type vicometer)

## 10. Stability and Reactivity

Chemical stability	:Stable under normal handling conditions.
Reactivity	:Toxic gases(CO, Nox , etc)may be generated by combustion.

## 11. Toxicological information

As Titanium dioxide

Acute toxicity Oral	:Rat LD50 > 20000 mg / Kg
Acute toxicity Skin	:Rabbit approxLD50 > 10000 mg / Kg
Carcinogenicity	:IARC group2B
Serious eye damage / irritation	:Showed mild irritation in eye irritation tests of rabbits.
Others toxicological information	:There are no testing on this products itself.

## 12. Ecological information

General note	Avoid entering the river, ground, drainer or affecting to the environment.
Ecotoxicity	:No information
Persistence/Degradable toxicity	:No information
Bioaccumulative potential	:No information
Mobility in soil	:No information

## 13. Disposal considerations

Residual waste

:When incinerating, observe relevant laws and regulations.  
In the case of disposal, collection and transporters of industrial waste received permission of the prefectural governor contract with the disposal company, the waste disposal law (waste disposal and cleaning law) and comply with relevant laws and regulations and properly process it.

#### Contaminated containers and packaging

:In case of discarding empty contaminated containers / packages, after completely removing the contents the prefectural governor .  
We contracted with industrial waste collection / transportation companies and disposal companies that received permission of the Waste Disposal Act (Waste Disposal and Public Cleansing Law) and regulation and laws and regulations properly.

#### 14. Transport information

##### International regulation

UN number : Not applicable  
UN Class : Not applicable  
Container grade : Not applicable

##### Rail and road transportation information

:Refer to applicable law and regulation.

Marine transportation information :Refer to applicable law and regulation.

Aviation transportation information:Refer to applicable law and regulation.

##### Special safety measures

:When transporting, make sure that the container does not leak, to prevent falling, or damage ensure prevention of loading and collapse of load.  
It is necessary to hold the yellow card when transporting.  
Do not transport with food and feed.

#### 15. Regulatory information

Industrial Safety and Health Act :Harmful substance to be notified of name etc.  
(Article 57-2 of the law, appended table 9  
of Article 18-2 of the enforcement ordinance)  
No.191 Titanium dioxide

Fire Service Act :Not applicable

Law concerning Pollutant Release and Transfer Register :Not applicable

Poisonous and Deleterious Substances Control Act :Not applicable

#### 16. Other information (cited documents, etc.)

##### References cited

:Raw material data sheet (Japan Manufacturing Paint Association)  
MSDS guide book (for paint) (Japan Manufacturing Paint Association)  
Hazardous substance data book (Maruzen publishing)  
GHS classification result database. (National Institute of Technology and Evaluation)

This information herein is given in good faith in accordance with the data in a variety of technical publication.

It is the user's responsibility to determine the suitability of this information for the adoption of necessary safety precautions.

In addition, the information listed here is made based on the latest information by our investigation at the time of creation, but please understand that revision is possible by amendment of laws, regulations or the announcement of new toxicity test result.