

MATERIAL SAFETY DATA SHEET

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

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Product Name: THERMO ECO SHILED
 Product Description: For exterior paint
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SECTION 2: INGREDIENTS

<u>Ingredient</u>	<u>PERCENT</u>	<u>C.A.S. NO.</u>
Acrylic resin	40.00%	55965-84-9
Acrylic ball	5.00%	38742-70-0, 78-78-4
Titanium Dioxide	15.00%	13463-67-7
Calcium carbonate	15.00%	1317-65-3
Additive	12%	25265-77-4, 9038-95-3
Water	13%	7732-18-5
Total	100.00%	

SECTION 3: HAZARDS IDENTIFICATION

Applicable categories: Incombustibles
 Danger: Non-inflammable liquid

SECTION 4: FIRST AID MEASURES

The following first aid recommendations are based on an assumption that appropriate personal and industrial hygiene practices are followed:

Eye Contact: Without rubbing the eyes, flush with large quantities of water for 15 minutes, including the inside of the eyelids; promptly seek medical attention.

Skin Contact: Wash with soap and flush with large amounts of water. Obtain medical attention. If the product permeates ones clothes, wash contaminated clothing and clean shoes before reuse.

Inhalation: If feeling nauseous from inhaling vapors, gas, etc., immediately move to a place with fresh air, relax and keep warm. Receive treatment from a physician promptly.

If Swallowed: If swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.

SECTION 5: FIRE FIGHTING MEASURES

5.1 FLAMMABLE PROPERTIES

Non-inflammable liquid

SECTION 6: ACCIDENTAL RELEASE MEASURES

- Wear appropriate protective gears such as gloves, protective masks, aprons, goggles, etc.
- Collect the leakage into airtight container and move it to a safe place.
- Take measures according to the relevant laws and regulations for extraneous or wasted matters.
- Gather the leakage using a shovel, rag, etc. For large amount of runoff, prevent by surrounding it with earth fill.
- Exercise caution when cleaning with water as it may lead to environmental pollution by contaminating rivers, etc.

SECTION 7: HANDLING AND STORAGE

7.1 HANDLING

- Handle in areas with good ventilation.
- Seal the container with lid tight after every use.
- Wear protective gears including protective eyewear and gloves in order to prevent contacts with eyes and skin.
- Install local exhaust ventilation or a wear protective mask with filters in case of work generating spray mist or vapors.
- While handling, do not eat or drink. Do not smoke.

7.2 STORAGE

- Do not store with oxidizing agents.
- Store indoors to avoid freezing and direct sunlight.
- Seal the containers tight and store in well-ventilated space.
- Store distant from any source of fire and heat.

- Store under temperature between 0 degrees C (32 degrees F) and 40 degrees C (104 degrees F).

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 ENGINEERING CONTROLS

Provide airtight containers and local exhaust ventilation for all open containers. Provide and clearly mark near area of use a safety shower and facilities for washing hands and eyes.

8.2 PERSONAL PROTECTIVE EQUIPMENT (PPE)

- 8.2.1. Skin Protection. Avoid skin contact. Select and use gloves and/or protective clothing to prevent skin contact based on the results of an exposure assessment. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible materials. Rubber gloves, boots and apron are recommended. Gloves made from the following material(s) are recommended: butyl rubber.
- 8.2.2. Prevention of Swallowing. Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Visual State	Liquid
Odor	Almost odorless
Melting Point	-
Boiling Point	100°C
Ignition Point	-
Explosion Limit (upper limit)	-
Steam Pressure	2200Pa
Octanol-Water Partition Coefficient	-
Oil absorption	N/A
Water insoluble matter	N/A
Lead	N/A

Color	White
PH	7.5
Freezing Point	-4°C
Flash Point	N/A
Specific Gravity	0.775
Explosion Limit (Lower limit)	-
Solubility	Easy
Kinematic Viscosity	30000 mm ² /s
Volatile matter	N/A
Residue on Sieve	N/A
Manganese chemicals	N/A

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability:

- There is no specific hazardous reaction under normal temperatures & pressures and natural light.
- There is no specific hazardous substance by contact.
- Harmful gas may be generated through inflammation after drying.

SECTION 11: TOXICOLOGICAL INFORMATION

<u>Ingredient</u>	<u>CAS No.</u>	<u>LD50</u>	<u>Other</u>
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No bibliographic information

SECTION 12: ECOLOGICAL INFORMATION

Care should be taken to avoid release into the environment because of concerns of damage to the environment.

Take care to prevent release of the product or wash water onto the ground, into the water supply or into the atmosphere.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste disposal method. Disposal should be entrusted to an authorized industrial waste handler. Do not permit rinse water to be released into the water supply.

Since regulations vary, consult applicable regulations or authorities before disposal.

SECTION 14: TRANSPORT INFORMATION

Avoid rough handling that might cause the containers to break.

United Nations Number: There is not it for non-dangerous materials

United Nations Class: There is not it for non-dangerous materials

SECTION 15: REGULATORY INFORMATION

Contact Sketch Co., Ltd for more information.

SECTION 16: OTHER INFORMATION

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