

MATERIAL SAFETY DATA SHEET

[1. PRODUCT AND COMPANY IDENTIFICATION]

PRODUCT NAME :
SUPPLIER :
ADDRESS :
DIVISION :
TELEPHONE NUMBER :
FAX NUMBER :
EMERGENCY :
TELEPHONE NUMBER :

[2. COMPOSITION/INFORMATION ON INGREDIENTS]

SUBSTANCE OR PREPARATION : Substance
INGREDIENTS : Polyester grafted styreneacrylic and hydrocarbon wax type polymer
CAS RN : confidential

[3. HAZARDS IDENTIFICATION]

MOST IMPORTANT HAZARDS :
ADVERSE HUMAN HEALTH EFFECTS : To the best of our investigation, no information available.
ENVIRONMENTAL EFFECTS : To the best of our investigation, no information available.
PHYSICAL AND CHEMICAL HAZARDS : Be careful to fire.
CLASS NAME FOR MSDS IN JAPAN : Not applicable

[4. FIRST-AID MEASURES]

IN CASE OF INHALATION : Remove person to fresh air. If necessary, seek medical attention.
IN CASE OF SKIN CONTACT : Wash material off the skin with plenty of water and soap. If necessary seek medical attention.
IN CASE OF EYE CONTACT : Immediately hold eyelids open and flush with a stream of water for at least 15 minutes. If necessary, seek medical attention.
IN CASE OF INGESTION : Seek medical attention. Never give anything by mouth to an unconscious person. If possible, rinse out mouth and give one or two glasses of water or milk to drink.

[5. FIRE-FIGHTING MEASURES]

EXTINGUISHING MEDIA : Water spray, powder
NOT SUITABLE EXTINGUISHING MEDIA : No information available

- SPECIFIC HAZARDS : May produce irritating or toxic gases in a fire.
- SPECIFIC METHODS : Keep away from sources of ignition and use appropriate extinguishing media. Fight fire from upwind position if possible.
- PROTECTION OF FIREFIGHTERS : Use goggles in combination with dust mask, and other protections as appropriate to situation.

[6. ACCIDENTAL RELEASE MEASURES]

- PERSONAL PRECAUTIONS : Use mask, goggles and protective gloves.
Large spills : Remove person to safety.
Ensure adequate ventilation.
Treat from upwind position.
- ENVIRONMENTAL PRECAUTIONS : Do not discharge into the drains, surface waters or ground water directly.
- METHODS FOR CLEANING UP : Sweep or vacuum spills.
Prevent dispersion of dust.
- PREVENTION OF SECONDARY HAZARDS : Keep away from sources of ignition and prepare extinguishing media.

[7. HANDLING AND STORAGE]

HANDLING

- TECHNICAL MEASURES : Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.
- PRECAUTIONS : Keep away from source of ignition.
Avoid inhalation of fine dust.
- SAFE HANDLING ADVICE : Handle in well-ventilated areas.
Use safety glasses and protective gloves as appropriate to situation.
Wash hands and face and gargle after handling.
Prevent generation of dust.

STORAGE

- STORAGE CONDITIONS : Keep container tightly closed.
Protect from sun. Store in a well-ventilated room (under 40 C).
Keep away from source of ignition.
- PACKAGING MATERIALS : No information available

[8. EXPOSURE CONTROLS/PERSONAL PROTECTION]

- ENGINEERING MEASURES : Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.
Use local exhaust ventilation, in case of generation of dust.

LIMIT VALUES

:

- ACGIH(TLV) : TWA 2 mg/m³, STEL –
Paraffin wax fume
10 mg/m³ TWA (inhalable particles, recommended); 3mg/m³ TWA (respirable particles, recommended) (Particulates (insoluble or poorly Soluble) not otherwise specified (PNOS))
- OSHA(PEL) : 15 mg/m³ TWA (total dust); 5mg/m³ TWA (respirable fraction) (particulates not otherwise regulated)

PERSONAL PROTECTIVE EQUIPMENT

- RESPIRATORY PROTECTION : Use dust mask, as appropriate to situation.
- HAND PROTECTION : Impervious gloves
- EYE PROTECTION : Safety glasses with side shield(Safety goggles or Face shield)

SKIN AND BODY PROTECTION : Full-body suit

HYGIENE MEASURES : No information available

[9. PHYSICAL AND CHEMICAL PROPERTIES]

PHYSICAL STATES

FORM : Powder

COLOUR : Brown

ODOUR : Odourless

pH : No data available

SPECIFIC TEMPERATURES/TEMPERATURE RANGES AT WHICH CHANGES IN PHYSICAL STATE OCCUR

BOILING POINT : No data available

MELTING POINT : 90 - 110 °C

DECOMPOSITION TEMPERATURE : No data available

FLASH POINT : No data available

AUTOIGNITION TEMPERATURE : No data available

EXPLOSION PROPERTIES

EXPLOSION : UPPER LIMIT : No data available LOWER LIMIT : No data available

VAPOUR PRESSURE : No data available

VAPOUR DENSITY : No data available

DENSITY : 1.15-1.25 g/mL (20 °C)

SOLUBILITY

WATER SOLUBILITY : Insoluble

SOLVENT SOLUBILITY : Partially soluble in toluene, chloroform and tetrahydrofuran.

OCTANOL/WATER PARTITION COEFFICIENT : No data available

OTHER DATA : No data available

[10. STABILITY AND REACTIVITY]

STABILITY : Stable in general.

HAZARDOUS REACTIONS : No self-reactivity.

CONDITIONS TO AVOID : No information available

MATERIALS TO AVOID : No information available

HAZARDOUS DECOMPOSITION PRODUCTS : No information available

OTHERS : No information available

[11. TOXICOLOGICAL INFORMATION]

ACUTE TOXICITY : No information available

LOCAL EFFECTS

CORROSIVITY : No information available

SKIN IRRITATION	: No information available
EYE IRRITATION	: No information available
SENSITIZATION	: No information available
CHRONIC TOXICITY/LONG TERM TOXICITY	: No information available
CARCINOGENICITY	: No information available
IARC	: Not established
NTP	: Not established
OSHA	: Not established
MUTAGENICITY	: No information available
TERATOGENICITY	: No information available
REPRODUCTION TOXICITY	: No information available
OTHER DATA	: No information available

[12. ECOLOGICAL INFORMATION]

MOBILITY	: No information available
PERSISTENCE/ DEGRADABILITY	: No information available
BIOACCUMULATION	: No information available
ECOTOXICITY	
AQUATIC TOXICITY	: No information available
OTHER DATA	: No information available

[13. DISPOSAL CONSIDERATIONS]

Review "HANDLING AND STORAGE (Section 7)".

Dispose of waste (after vacuuming) in accordance with local, state, and federal regulations.

Dispose of waste in accordance with local, state and federal regulations.

[14. TRANSPORT INFORMATION]

Follow all regulations in your country or region

UN CLASS/UN NUMBER	: Not applicable
PRECAUTIONS	: Review "ACCIDENTAL RELEASE MEASURES (Section 6)". Review "HANDLING AND STORAGE (Section 7)". Ensure containers without breakage or leakage. Ensure containers tightly fixed. Follow all regulations in your country or region. Avoid heating (keep under 40 C). Keep away from source of ignition.

[15. REGULATORY INFORMATION]

Follow all regulations in your country or region

INVENTORIES	: ENCS(Japan)	Yes
	EINECS(EU)	Yes(Polymer)

is not able to check up the regulatory information regarding the substances in your country or region, therefore, we request this matter would be filled by your responsibility.

[16. OTHER INFORMATION]

REFERENCE

- : -Safety data sheet for chemical products - Part 1: Content and order of sections (ISO 11014-1)
- International Chemical Safety Cards (ICSC) (Compiler's Guide) (1994)

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