

SAFETY DATA SHEET

Creation date : 1-Aug-2011



Revision date : 28-Feb-2019

1. Identification of the substance and of the company

Product name : Miracle Media MM-PE (Unsaturated Polyester Resin)
Description : Unsaturated polyester resin granules
Manufacturer : HIEDA CHEMICAL INDUSTRY Co., Ltd.
3-8-1Takao, Tanabe-shi, Wakayama-ken 646-0028, Japan
Department : Quality Audit Department
Emergency Telephone Number: 0739-22-3838 (FAX 0739-22-4193)
Recommended use : Abrasive blasting media for dry/wet Sandblasting for the purpose of paint stripping and deburring of plastic molding.

2. Hazard identification

【GHS Classification/GHS Label Elements】

	Classification		Labeling		Hazard Statement Codes
	Hazard Class	Hazard category	Pictogram	Signal Word	
Health Hazards	Acute toxicity Oral	5	No pictogram	Warning	H303
	Acute toxicity Inhalation	5	No pictogram	Warning	H333
	Eye Irritation	2B	No pictogram	Warning	H320
	Specific target organ toxicity-single exposure	3		Warning	H335
	Specific target organ toxicity-repeated exposure	2		Warning	H373
Environmental Hazards	Hazardous to the aquatic environment, long-term (chronic)	4	No pictogram	No signal word	H413

Hazard statements

H320 Causes eye irritation

H335 May cause respiration irritation

H373 May cause damage to the respiratory organs through prolonged or repeated exposure

H303+H333 May be harmful if swallowed or if inhaled

H413 May cause long lasting harmful effects to aquatic life

Precautionary statements

[Prevention]

- P102 Keep out of reach of children.
- P103 Read label before use.
- P260 Do not breathe dust/fume/gas/mist/vapors/spray.
- P264 Wash hands thoroughly after handling.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.

[Response]

- P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
- P304+P312 IF INHALED: Call a POISON CENTER/doctor if you feel unwell.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
- P370 In case of fire: Use foam, carbon dioxide (CO₂), dry chemical or water spray.
- P391 Collect spillage.

[Disposal]

- P501 Dispose of contents/container in accordance with local/regional/national/international regulation (to be specified).

3. Composition/information on ingredients

Formula	: Mixture/Compound
Chemical Name & Synonyms	: Unsaturated polyester resin molding
Composition (wt%)	: Unsaturated polyester resin 99~100wt%
	Others (Pigments, etc.) <1wt%

Melamine resin

CSCL No.	: Not open to the public
CAS No.	: Not open to the public

4. First-aid measures

- Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Inhalation: Rinse mouth. If swallowed: Call a POISON CENTER/doctor if you feel unwell. Get medical advice/attention.
- Ingestion: Rinse mouth. If swallowed: Call a POISON CENTER/doctor if you feel unwell. Get medical advice/attention.

5. Fire-fighting measures

Suitable extinguishing Media : Use foam, carbon dioxide (CO₂), dry chemical or water spray.

Protective equipment and precautions for firefighters

Hazardous combustion products: Carbon monoxide (CO), Carbon dioxide (CO₂). In the event of fire, wear self-contained breathing apparatus.

6. Accidental release measures

Personal precautions

Stop people from entering the area by putting something such as a rope around it.

Collect spillage immediately.

CAUTION: Released resin granules produce very slippery walking surfaces.

Environmental Precautions

Waste should not be released to sewers/rivers.

See section 13 to dispose recoveries.

7. Handling and storage

Advice on safe handling

Keep out of reach of children.

If released on the floor, collect spillage immediately.

Dust cloud of this product may cause a dust explosion.

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

No smoking.

Use in a closed structure equipment.

Provide appropriate local exhaust ventilation.

Take precautionary measures against static discharges.

Wear protective gloves/protective clothing/eye protection/face protection.

Eating and drinking should be prohibited in areas where this product is handled and stored.

Storage Condition

Keep products from excessive heat, a fire and source of ignition.

Do not break containers and packaging.

Protect from sunlight. Sunlight damages to containers and packaging.

8. Exposure controls/personal protection

Engineering Controls

Seal a whole equipment
Provide appropriate local exhaust ventilation.

The exposure limit : Inhalable 2mg/m³, Total 8mg/m³

Personal protective equipment

Respiratory Protection : Approved air-purifying respirator
Eye Protection : Safety glasses with side shield (or goggles).
Hand Protection : Protective gloves
Body Protection : Suitable protective clothing

9. Physical and chemical properties

Physical State : Solid
Appearance : Mixture of multicolor granules with sharp angular shape
Particle size : 50–2000 μ m
Specific gravity : 1.04–1.25
Bulk specific gravity : 0.6–0.8
pH : 4–8
Flash point : 450 °C
Water absorption : 0.15–0.60 wt%
Water solubility : insoluble
Explosive properties : Dust may form explosible mixture in air
Softening Point : Not applicable (Thermosetting resin)
Decomposition temp. : 110–140°C
Barcol hardness : 35–75

10. Stability and reactivity

Stability : Stable at room temperature.
Reactivity : May react upon contact with strong oxidizers.

11. Toxicological information

Acute toxicity : IF INHALED: May cause damage to the respiratory organs
Repeated exposure : May cause damage to the respiratory organs
Eye irritation : IF IN EYES: May cause corneal injury.

12. Ecological information

Suspended solids	: <200mg/ℓ
Degradability	: No information available
Persistence	: No information available
Bioaccumulation	: No information available

13. Disposal considerations

Waste should not be released to sewers and rivers.

Recycling of containers and packaging is recommended.

Refer to manufacturer or supplier for information on recovery or recycling of unused/contaminated products.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Dispose of surplus and non-recyclable products via a licensed waste disposal contractor.

Products, containers and packaging can be burned in suitable incineration facilities.

14. Transport information

Appropriate transport method : Aircraft, Ships, Automobile, Train

UN No.	: Not regulated
UN Proper Shipping Name	: Not regulated
Transport Hazard class	: Not regulated
IMDG Code	: Not regulated

Cautions

Do not break containers and packaging.

Fix firmly to prevent load collapse.

Transport in accordance with transportation related laws and regulations.

15. Regulatory information

Poisonous and Deleterious Substances Control Law : Not regulated

PRTR Law : Not regulated

RoHS restricted substances : Less than allowable concentration

16. Other information

References

- 1) Ordinance on Prevention of Hazards Due to Dust
- 2) Recommendations of the Japan Society for Occupational Health
- 3) Plastic Data Handbook, 1980, Industry Committee
- 4) <http://www.safe.nite.co.jp>
- 5) Plastic molding material commerce Handbook (2004 edition)

Disclaimer

This information is based on information that HIEDA CHEMICAL INDUSTRY believes to be accurate. No warranty, either expressed or implied, is hereby made.

The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, users should make their investigations to determine the suitability of the information for their particular purposes.

HIEDA CHEMICAL INDUSTRY assumes no legal responsibility for use or reliance of the information.

Prepared by: HIEDA CHEMICAL INDUSTRY–Quality Audit Department

End of Safety Data Sheet