

MATERIAL SAFETY DATA SHEET

Product name: Metablen™ P-551A
Freight classification: PLASTICS, White powder
Used for: Modifier for Plastics

1. COMPANY IDENTIFICATION

Manufacturer (Company)

Name: MITUBISHI RAYON Co.,Ltd.
Place: 6-41 KONAN, 1-CHOME, MINATO-KU, TOKYO, 108-8506 JAPAN
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2. HAZARD INFORMATION

GHS

Classification: not classified.
Symbol: not applicable
Signal Word: none
Hazard Statement: none

Other Hazardous Information that is not applicable GHS Classification

Emergency over view:

White powder, slight odor, can burn in a fire but not ordinarily an emergency problem.

Slippery, can cause falls if walked on.

Potential health effect:

Inhalation:

Excess monomer vapors, given off at higher temperatures, may cause irritation of eyes a mucous membrane, nausea, headache, and dizziness.

Eyes contact:

Fine dust may cause dust inhalation during handling. Fine particles and vapor of monomers may irritate the eyes.

Skin contact:

Fine dust may irritate the skin. Persons who are allergic may eruption and/or irritate, rarely.

3. COMPOSITION /INFORMATION ON INGREDIENTS

Chemical name: Methacrylate and Acrylate co-polymer
CAS registry number: nondisclosure
Approx. weight percentage: 98 weight percentage or more
Residual monomer: Trace

Not a hazardous substance or preparation according to EC-directives 67/548/EEC or 99/45/EC

4. FIRST AID MEASURES

Inhalation:

Remove to fresh air. Consult a physician if needed.

Ingestion:

Consult a physician if needed.

Eyes contact:

Flush eyes with large amount of water for at least fifteen minutes to remove dust particles. Consult an eye doctor after flushing eyes.

Skin contact:

Wash affected skin area with soap and water. Consult a dermatologist doctor if erupted and/or irritated.

5. FIRE AND EXPLOSION HAZARD DATA

Flash point:	N.A.
Decomposition temperature:	240 degrees Celsius
Lower explosion limit:	N.A.
Upper explosion limit:	N.A.
Lower dust explosion limit:	N.A.
Minimum ignition energy:	N.A.

The physical data presented above are typical values and should not be construed as a specification.

Extinguishing media:

Dry chemical, foam, carbon dioxide, and water fog as needed

Special fire fighting procedure:

Wear MSHA/NIOSH approved self-contained breathing apparatus. Use water spray to cool containers. Avoid use straight stream of water to prevent creating dust cloud. Remove bags of powder from fire area if possible to avoid degradation.

Usual fire and explosion hazard:

Burn vigorously with intense heat. Polymer dust ignites or dust explodes.

6. ACCIDENTAL RELEASE MEASURES

Steps to be taken in case of material are released or spilled:

Ventilate working area. Remove ignition sources. Sweep up and shovel into containers for recovery or disposal.

Consider reuse if not contaminated. If dust concentration is high, it should be sprayed small amount of water on the material to keep dust to minimize, and sweep them up.

7. HANDLING AND STORAGE

Avoid eye and skin contact. Handle and process material in the well-ventilated place.

Storage temperature:	Maximum thirty-five (35) degrees Celsius.		
Indoor:	YES	Heated:	NO
Humid place:	NO	Refrigerated:	NO
Out door:	NO		

Keep materials at cool and dry place as the same level as of general warehouse. Do not store close to or in such hot places as steam pipes, heaters, and other heat generating saucers. On the other hand, fine dust of the materials may induce dust explosion under certain conditions (See section 5) due to the material is an organic Hydrocarbon inflammable material.

Keep handling area and processing equipment clean. Pay particular attention to the storage tanks and hoppers, to avoid dust explosion. Electrostatic eliminators should be affixed to such equipment as storage tank, hopper and transferring pipe, to avoid ignition. All electrical switches in these areas should be used anti-explosion type based on local

regulations.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ventilation type:

Ventilate at local handling area to avoid generating fine dust. If overheating occurs during processing, exhaust ventilation should be provided.

Respiratory protection:

Wear MSHA/NIOSH approved or equivalent dust respirator.

Protective gloves:

Recommend use impervious gloves to avoid irritation.

Eye protection:

Safety glasses with side shield should be used.

Other protective equipment:

Eye-washing facility should be provided.

9. PHYSICAL AND CHEMICAL PROPERTY

Appearance:	White powder
Odor:	Slight odor of monomers
Viscosity:	N.A. (not applicable)
Melting point:	N.A.
Freezing point:	N.A.
Boiling point:	N.A.
Vapor pressure (mm Hg):	N.A.
Vapor density (AIR=1):	N.A.
Solubility in water:	Insoluble
Percentage volatile:	1.0 weight percentage or less
Specific gravity:	1.2(Calculated)
Evaporation rate:	N.A.

10. STABILITY AND REACTIVITY

Stability: Stable

Condition to avoid:

Hot Place, close to heat generating equipment, and so on.

Hazardous decomposition products:

Decomposition is detectable at 240 °C but the quantity of gaseous decomposition products remains small until temperature above 400 °C are reached.

Decomposition gaseous are Carbon oxide.

Thermal decomposition may generate Methacrylic, Acrylic monomers, and gaseous Carbon mono-oxide.

Hazardous polymerization: Will not occur

Incompatibility (material to avoid): Not known

11. TOXICOLOGICAL INFORMATION

No published toxicity data on this product is known to exist. The product has been produced without using such toxic organic metallic materials as Chromium (Cr), Lead (Pb), Cadmium (Cd), Mercury (Hg), Tin (Sn), and Arsenic (As) compound. Also, such plasticizers as DOP (n-Di-Octyl phthalate), DOA (n-Di-Octyl adipate), and Polyester plasticizers were not used as raw materials for this product.

12. ECOLOGICAL INFORMATION

There are no available ecotoxicity data.

13.DISPOSAL CONSIDERATIONS

Waste disposal method:

Do not discharge effluent containing this product into municipal sewers or open bodies of water. All recovered material should be transferred to a container for disposal. Incinerate or landfill the wastes in an approved facility that complies with local, state, and national regulations.

14.TRANSPORT INFORMATION

Not classified as dangerous or hazardous for transporting.

15. REGULATORY INFORMATION

The material has been listed up to Ministry of Health and Welfare of Japanese Government under the Japanese Chemical substance regulation of low.

16. OTHER INFORMATION

No data.

The information presented herein is believed to be factual, however, nothing contained in this information is to be taken as a warranty or representation for which the supplier or manufacturer bears legal responsibility. The user should review any recommendations in the specific context of the intended use to determine whether they are appropriate.