

# Safety Data Sheet

Issue date 2016/02/01  
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## 1. Identification

Product name : IUPITAL  
Grade : F20-03 NATURAL  
Manufacturer : Mitsubishi Engineering-Plastics Corporation  
Address : Shiodome Sumitomo-Bldg.25F, 9-2, Higashi-shinbashi 1-Chome, Minato-ku, Tokyo 105-0021, Japan  
Person in charge : General Manager Environment and Quality Assurance Department  
Phone number : +81-3-6274-9060  
FAX number : +81-3-6274-9085  
Reference number : POM543-01-03-01-01  
Recommended use of the chemical and restrictions on use : • Industrial raw material for injection molding, extrusion molding or compounding.

## 2. Hazards identification

GHS classification : • Not classified, or Classification not possible  
GHS label elements  
Symbol : • No information  
Signal words : • No information  
Hazard statements : • No information  
Precautionary statement :  
Prevention : • Make sure to read Safety Data Sheet (SDS) before use and confirm handling precautions. When using this product (especially for food container packaging, medical equipment safety equipment and child toy etc.), user shall conduct tests and/or confirm compliance for safety, compliance of regulations etc. related to the use.  
Response : • If you feel unwell, call a doctor/physician.  
Storage : • Protect from direct sunlight, and keep away from all ignition sources and heat sources.  
Disposal : • Consign waste to approved special disposal contractor authorized by the prefectural governor.

## 3. Composition / information on ingredients

Distinction of substance or mixture : mixture  
Chemical name or generic name : Polyoxymethylene copolymer resin component  
Components :

No.	Components name	CAS No.	Molecular formula	Content
1	Polyoxymethylene copolymer	24969-26-4	-(CH <sub>2</sub> O) <sub>n</sub> -(C <sub>2</sub> H <sub>4</sub> O) <sub>m</sub> -	≥99

No.	The Chemical Substance Control Law Class Reference Number in the Gazette List	Industrial Safety and Health Law Class Reference Number in the Gazette List	Industrial Safety and Health Law	PRTR law
1	7-129	No information	No information	No information

## 4. First-aid measures

If inhaled : • If you feel unwell in case of inhaling gas from melting material, remove person to fresh air and wait for recovery.  
If on skin : • In case of contact with the melting material, keep skin cool with clean water at least 15 minutes immediately.  
Do not force to remove resin hardened on the skin.  
If in eyes : • Generally, rinse with clean water at least 15 minutes immediately.  
Get medical advice/attention if you feel uncomfortable.  
In case of contact with melting material, keep eyes cool and rinse with clean water at least 15 minutes immediately.  
Get medical advice/attention.  
If swallowed : • Induce vomiting as far as possible. Get medical advice/attention if you feel uncomfortable.

## 5.Fire-fighting measures

Extinguishing media	:	• Water spray, water fog and any fire extinguishing media are available. The most suitable one is water spray.
Unsuitable extinguishing media	:	• No information
Specific hazards arising	:	• In case of fire, pay attention to hazardous gas such as carbon monoxide and formaldehyde produced by incomplete combustion.
Special fire fighting procedures	:	• Fight fire from upwind or with air respirator apparatus.

## 6.Accidental release measures

Personal precautions, protective equipment and emergency procedures	:	• Wear suitable protective equipment (e.g. eye protection, face protection and protective gloves ).
Environmental precautions	:	• Take care not to cause environment effect by spill entering into river or other way.
Methods and materials for containment and cleaning up	:	• Collect spillage using broom, vacuum cleaner etc.

## 7.Handling and storage

Handling		
Technical measures	:	• Do not use fire without reason in the workplace, though resin pellet will not ignite at normal temperature. Ground pneumatic conveyer, bag filter, hopper etc. to prevent static electricity charge built-up because powdery resin is possible to cause dust explosion. Do not inhale gas, because toxic gas may be generated in the process. In addition, install local ventilation facility or as such facility to discharge the gas. Do not stagnate long time under high temperature, because thermal decomposition of the resin may occur.
Storage		
Conditions for safe storage	:	• Store in a well-ventilated area away from all ignition sources or heat sources and protect from direct sunlight.

## 8.Exposure controls/personal protection

Occupational exposure limits	:	
Japan Society for Occupational Health		
Components	:	Polyoxymethylene copolymer
2mg/m3		mg/m3 : 2 (Respirable dust) (2009)
8mg/m3		mg/m3 : 8 (Total dust) (2009)
ACGIH		
Components	:	Polyoxymethylene copolymer
3mg/m3		mg/m3 : 3 (Respirable fraction) (2009) [TWA]
10mg/m3		mg/m3 : 10 (Inhalable fraction) (2009) [TWA]
※TWA (Time Weighted Average)		
Average exposure to a contaminant to which workers may be exposed without adverse effect over a period such as in an 8-hour day or 40-hour week (an average work shift).		
Personal protective equipment	:	
Respiratory protection	:	• To wear easy dust mask is recommended.
Hand protection	:	• To wear hand protection equipment is recommended as necessary. Especially in case of handling with melting resin, wear heat-resistant glove to prevent from burn injury.
Eye protection	:	• To wear safety glasses with side shields, goggles etc. is recommended.
Skin and body protection	:	• To wear skin and body protection equipment is recommended as necessary. Especially in case of handling with melting resin, wear long sleeved clothes and prevent from burn injury.
Other information	:	• Wear antistatic safety shoes to prevent static charge build-up.

## 9.Physical and chemical properties

Appearance (physical state, form, color etc.)	
Physical state	: Solid
Form	: Granular

Melting point / Freezing point	: 165 °C
Flash point	: No information
Upper flammability or explosive limits	: No information
Lower flammability or explosive limits	: No information
Specific gravity	: 1.4
Solubility	
Solubility for water	: Insoluble
Solubility for solvents	: No information
Partition coefficient: n-octanol/water	: No information
Auto-ignition temperature	: $\geq 400$ °C
Decomposition temperature	: No information

## 10. Stability and reactivity

Chemical stability	: • Stable under normal temperature and pressure.
Conditions to avoid	: • Not to be brought into contact with strong acid, oxidizing agent and vinyl chloride in high temperature molten state.
Hazardous decomposition products	: • In combustion or high temperature state, formaldehyde is produced.

## 11. Toxicological information

Acute toxicity	: • No information
Other toxicity	: • Exposed area (on skin or in eyes) by contact of pellet-like product is sufficiently small and there is not any possibility of inhalation to respiration system, therefore no hazard is considered to appear. On the other hand, exposed area (on skin or in eyes) by contact of powdery product is larger and possibility of inhalation to respiration system is higher, however no concrete harmful information exist. As the result, hazard identification of this product is determined as "classification not possible".

## 12. Ecological information

Ecotoxicity	: • No information
Hazardous to the ozone layer	: • No information
Other hazardous effects	: • The chemicals are included in plastics, and liberation/ separation from product may not occur by such as bleed out and no harmful information to aquatic environment by the chemicals exist. Therefore, this product is determined as "classification not possible".

## 13. Disposal considerations

Residual waste	: • In case of landfill, charge licensed industrial waste management professional or the local government if they conduct it. Dispose waste in accordance with "Waste Management and Public Cleansing Law". In case of incineration, incinerate waste with suitable incineration system in accordance with Air Pollution Control Law or relevant regulation on incineration.
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## 14. Transport information

International regulations	: Not defined as hazardous material for transport in UN classification.
Domestic regulations	: Comply with the laws and regulations set forth in "15.Regulatory information." Follow the transportation method described in "Fire Service Act".
Others	: • Avoid getting wet with water and rough handling to prevent packaging bag from tearing. Ensure no leakage from container and implement measures of loading collapse prevention surely to avoid falling, overturning and damage.

## 15. Regulatory information

Related legislation	: • The figure in parentheses after chemical name in section3 indicates composition (weight %) of each substance in this product.
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## 16. Other information

Contact

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Company name	:	Mitsubishi Engineering-Plastics Corporation
Address	:	Shiodome Sumitomo-Bldg.25F, 9-2, Higashi-shinbashi 1-Chome, Minato-ku, Tokyo 105-0021, Japan
Person in charge	:	General Manager Environment and Quality Assurance Department
Phone number	:	+81-3-6274-9060
FAX number	:	+81-3-6274-9085

**Other information**

- The content in this safety data sheet is based on documents, information and data available at this time. This does not guarantee of chemical content, physico-chemical properties and hazards. The precautions in this safety data sheet are designed for general handling. In case of special handling, please use with conducting safety measurement suitable for the use and usage.