

SAFETY INFORMATION SHEET

POLYPROPYLENE

MD231UC-8229

1. IDENTIFICATION

Product name: MD231UC-8229
 Intended use: Raw material for plastic industry.
 Manufacturer: Borouge Compounding Shanghai Co., Ltd
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2. HAZARDS IDENTIFICATION

GHS classification

Physical: No classification.
 Health: No classification.
 Environmental: No classification.
 Other hazards: Inhalation of dust may irritate the respiratory tract. Prolonged inhalation of high doses of decomposition products may give headache or irritation of the respiratory tract.

GHS label elements

Pictograms: Nil.
 Signal word: Nil.
 Hazard statements: Nil.
 Precautionary statements: Nil.

3. COMPOSITION / INFORMATION ON INGREDIENTS

The product is a Polypropylene polymer.
 Contains no substance classified as hazardous in concentrations, which should be taken into account according to Chinese GB Standard GB13690-2009, General Rule for Classification and Hazard Communication of Chemicals.

4. FIRST AID MEASURES

Inhalation: If experiencing respiratory symptoms: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice / attention.
 Skin contact: Cool molten product on skin with plenty of water.
 Do not remove solidified product.
 Eye contact: No specific instruction needed.
 Ingestion: No specific instruction needed.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media:	Water in spread jet, dry chemicals, foam or Carbon Dioxide.
Specific hazards during fire fighting:	Product will burn under fire conditions. Dust from the product (when mixed with air in critical proportions and in the presence of an ignition source) may present a dust explosion hazard. Principal toxicant in the smoke is Carbon Monoxide.
Special protective actions for fire fighters:	Fire fighters should wear self-contained breathing apparatus, boots, gloves, goggles and full protective clothing. Extinguish from the upwind direction.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency measures:	NO flames, NO sparks. Eliminate all sources of ignition. Avoid breathing dust. Use personal protective equipment as required. Refer to Section 8: Exposure Controls / Personal Protection.
Methods for cleaning up:	Suck or sweep up spill. All spill of material must be removed immediately to prevent slipping accidents.

7. HANDLING AND STORAGE

Handling:	During processing and thermal treatment of the product, small amounts of volatile hydrocarbons may be released. Provide adequate ventilation. Local exhaust ventilation may be necessary. Avoid inhalation of dust and decomposition fumes. Dust from the product gives a potential risk for dust explosion. All equipment shall be grounded.
Storage:	Safety aspects do not require any special precautions in terms of storage. The product should be stored in dry conditions and protected from UV-light. More information on storage can be found in Product Data Sheet (PDS) for this product.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Component	Basis	Control parameters / Occupational exposure limits
Inhalable dust:	USA / ACGIH	TLV-TWA: 10 mg/m ³
	UK HSE EH40/2005	8 hr TWA: 10 mg/m ³
Respirable dust:	USA / ACGIH	TLV-TWA: 3 mg/m ³
	UK HSE EH40/2005	8 hr TWA: 4 mg/m ³

Engineering controls: Extraction to remove dust at its source. Provide adequate ventilation. Local exhaust ventilation may be necessary.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Solid, black	Melting point / range:	130 – 170 °C
Odour:	Odourless	Ignition temperature:	> 320 °C
Density:	0.9 – 1.1 g/cm ³	Solubility in water:	Insoluble in water

10. STABILITY AND REACTIVITY

Chemical stability:	The product is a stable thermoplastic.
Reactivity:	No chemical reactivity.
Conditions to avoid:	Dusty conditions, heat, open flame, spark, static electricity.
Incompatible materials:	Nil.
Hazardous decomposition products:	On combustion releases: Oxides of Carbon.

11. TOXICOLOGICAL INFORMATION

Acute toxicity:	The product is not classified as having acute toxicity according to Chinese GB Standards GB30000.18-2013, Safety rules for classification, precautionary labeling and precautionary statements of chemicals – Acute toxicity.
Skin corrosion / irritation:	The product is not classified as a skin irritant according to Chinese GB Standards GB30000.19-2013, Safety rules for classification, precautionary labeling and precautionary statements of chemicals – Skin corrosion / irritation.
Serious eye damage / eye irritation:	The product is not classified as an eye irritant according to Chinese GB Standards GB30000.20-2013, Safety rules for classification, precautionary labeling and precautionary statements of chemicals – Serious eye damage / eye irritation.
Respiratory or skin sensitization:	The product is not classified as a respiratory or skin sensitizer according to Chinese GB Standards GB30000.21-2013, Safety rules for classification, precautionary labeling and precautionary statements of chemicals – Respiratory or skin sensitization.
Germ cell mutagenicity:	The product is not classified as a germ cell mutagen according to Chinese GB Standards GB30000.22-2013, Safety rules for classification, precautionary labeling and precautionary statements of chemicals – Germ cell mutagenicity.
Carcinogenicity:	The product is not classified as a carcinogen according to Chinese GB Standards GB30000.23-2013, Safety rules for classification, precautionary labeling and precautionary statements of chemicals – Carcinogenicity.
Reproductive toxicity:	The product is not classified as having reproductive toxicity according to Chinese GB Standards GB30000.24-2013, Safety rules for classification, precautionary labeling and precautionary statements of chemicals – Reproductive toxicity.
Specific target organ systemic toxicity – Single exposure:	The product is not classified as having Specific target organ systemic toxicity – Single exposure according to Chinese GB Standards GB30000.25-2013, Safety rules for classification, precautionary labeling and precautionary statements of chemicals – Specific target organ systemic toxicity – Single exposure.
Specific target organ systemic toxicity – Repeated exposure:	The product is not classified as having Specific target organ systemic toxicity – Repeated exposure according to Chinese GB Standards GB30000.26-2013, Safety rules for classification, precautionary labeling and precautionary statements of chemicals – Specific target organ systemic toxicity – Repeated exposure.
Aspiration hazard:	The product is not classified as having Aspiration hazard according to Chinese GB Standards GB30000.27-2013, Safety rules for classification, precautionary labeling and precautionary statements of chemicals - Aspiration hazard .
Other information:	Inhalation of dust may irritate the respiratory tract. Prolonged inhalation of high doses of decomposition products may give headache or irritation of the respiratory tract.

12. ECOLOGICAL INFORMATION

Hazardous to the aquatic environment: The product is not classified as having hazardous to the aquatic environment according to Chinese GB Standards GB30000.28-2013, Safety rules for classification, precautionary labeling and precautionary statements of chemicals - Hazardous to the aquatic environment.

Hazardous to the ozone layer: The product is not classified as having hazardous to the ozone layer according to Chinese GB Standards GB30000.29-2013, Safety rules for classification, precautionary labeling and precautionary statements of chemicals - Hazardous to the ozone layer.

13. DISPOSAL CONSIDERATIONS

Reuse or recycle if not contaminated. The product may be safely used as fuel. Proper combustion does not require any special flue gas control. Check with local regulations.

14. TRANSPORT INFORMATION

Land (RID / ADR): Not regulated.
 Sea (IMO / IMDG): Not regulated.
 Air (ICAO-IATA): Not regulated.

15. REGULATORY INFORMATION

Chemical inventory status	Status
Australia / AIIC:	Y
Canada / DSL:	Y
China / IECSC:	Y
Europe / EINECS or ELINCS or NLP:	P
Japan / ENCS:	Y
Korea / KECI:	Y
New Zealand / NZIoC:	Y
Philippines / PICCS:	Y
Taiwan / TCSI	Y

Y = All ingredients are on the inventory.
 E = All ingredients are on the inventory or exempt from listing.
 P = One or more ingredients fall under the polymer exemption or are on the no longer polymer list. All other ingredients are on the inventory or exempt from listing.
 N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing.

16. OTHER INFORMATION

Reasons for revision: Changes and / or additions made to Sections 7,15 and 16.

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For more information:

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