

ROTOTUF - RT439 BLACK

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product Name : **Rototuf - RT439 Black**

Intended use : Rotomolding Compound

Company Identification : **INGENIA POLYMERS CO. LTD.**
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SECTION 2: Hazards Identification

Classification of the Substance or Mixture : Not hazardous according to the legislation in force.

Physical Hazards : The product can form an explosible dust/air mixture. Refer to Section 7 for Explosion Hazards. **CAUTION!**

Health Hazards: : May have a drying effect on mucous membranes and skin.

Primary Routes of Entry

Eye : Fumes may cause eye irritation during processing.

Skin : Molten polymer will cause thermal burns if it comes in contact with skin.

Inhalation : Fumes may irritate respiratory system if ventilation is inadequate.

SECTION 3: Composition/information on ingredients

Component	Chemical Name	% By Weight	CAS No.	EINECS No.
Polyethylene	Mixture of: Ethylene / Hexene-1 Copolymer Ethylene / Butene-1 Copolymer	> 97.0	25213-02-9 25087-34-7	not assigned
Black Concentrate	Proprietary Black Masterbatch	< 2.0	Proprietary	-

SECTION 4: First Aid Measures

- Eyes : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- Skin : If molten polymer gets on skin, cool rapidly with cold water. Do not attempt to peel polymer from skin. Obtain medical treatment for thermal burn.
- Inhalation : If large amounts of vapors released during processing are inhaled, remove to fresh air. If not breathing, give artificial respiration, preferably mouth to mouth. If breathing is difficult, give oxygen and call a physician.
- Ingestion : Do not induce vomiting. If vomiting occurs naturally, have subject casual lean forward to reduce the risk of aspiration. Seek medical attention immediately.

SECTION 5: Firefighting Measures

- Fire Fighting Measures : Standard procedure for chemical fires.
- Suitable Extinguishing Media : Carbon dioxide, dry chemical, foam or water mist.
- Fire Fighting Equipment : Wear self-contained breathing apparatus and protective suit.
- Unusual Hazards : Treat as a solid that can burn. Avoid accumulation and dispersion of dust to reduce explosion potential. The product can form an explosible dust/air mixture. For further information, see Section 7 Explosion Hazards.
- Hazardous Combustion Products : Burning may produce toxic combustion products.

SECTION 6: Accidental Release Measures

- Personal Precaution : Use proper personal protective equipment as indicated in Section 8.
- Environmental Precaution : Do not flush into sanitary sewers or bury into ground.
- Cleanup Instructions : Remove all sources of ignition. Ventilate area.
Sweep up and shovel into suitable containers for disposal.
Avoid dust formation. Thoroughly flush residue with water.

SECTION 7: Handling and Storage

- Handling: : As with all industrial chemicals, use good industrial practices when handling. Avoid eye, skin, and clothing contact. Do not inhale. Do not taste or swallow. Use only with adequate ventilation.

- Storage: : Store away from oxidizing materials. Keep in a well-ventilated, cool dry place.
- Explosion Hazards: : Combustible. Failure or malfunction temperature control system or processing equipment can create fire and explosion hazards
- Notes to Users : The user is responsible for designing the system to handle solid and ensuring proper training of employees in the system's use.

For Industrial Use Only

SECTION 8: Exposure Controls/Personal Protection

- Exposure Guidelines** : There are no OSHA or ACGIH exposure guidelines available for component(s) in this product.

COMPONENTS	CAS NO.	OSHA PEL	ACGIH TLV	Manufacturer IEL
Ethylene / Hexene-1 Copolymer	25213-02-9	15 mg/ m ³ TD 5 mg/ m ³ RD	10 mg/ m ³ TD	-
Ethylene / Butene-1 Copolymer	25087-34-7	15 mg/ m ³ TD 5 mg/ m ³ RD	10 mg/ m ³ TD	-
White Concentrate	-	-	-	-

TD- Total Dust

RD- Respirable Dust

Personal Protective Equipment

- Eye/Face Protection : Wear safety glasses or goggles to protect against dust particles.
- Skin Protection : Wear chemical resistant gloves and protective clothing.
- Respiratory Protection : Use NIOSH approved respirator as needed to mitigate exposure.
- Engineering Controls : Work in well ventilated areas. Do not breathe dust.

SECTION 9: Physical and Chemical Properties

Physical Form	: Powder	Specific Gravity	: 0.939 - 0.943
Color	: Black	pH	: Not determined
Boiling Point	: Not applicable	Percent Volatile	: Not applicable
Melting Point	: ~ 110 °C(based on component)	VOC	: Not applicable
Solubility in water	: Insoluble	Decomposition Temperature	: Not determined
Vapor Density	: Not applicable	Autoignition Temperature	: > 350 °C
Vapor Pressure	: Not applicable	Flammability Limits in Air	: Not determined
Density	: Not determined	Flash point	: Not applicable

SECTION 10: Stability and Reactivity

- Stability : Stable.
- Conditions to Avoid : Temperature above 250 °C, static discharges and sources of ignition.
- Materials to Avoid : Strong oxidizing agents, acids
- Hazardous Decomposition Products : Simple hydrocarbons, toxic/irritating gases such as carbon monoxide and dioxide, oxides of nitrogen, aldehydes and other organic vapors.
- Possibility of Hazardous Reactions : None expected.

SECTION 11: Toxicological Information**Acute Oral Toxicity:**

Polyethylene (25087-34-7) : Not available.
Polyethylene (25213-02-9) : Not available.
Black concentrate : Not determined.

Acute Dermal Toxicity:

Polyethylene (25087-34-7) : Not available.
Polyethylene (25213-02-9) : Not available.
Black concentrate : Not determined.

Acute Inhalation Toxicity:

Polyethylene (25087-34-7) : Not available.
Polyethylene (25213-02-9) : Not available.
Black concentrate : Not determined.

Eye Irritation:

Polyethylene (25087-34-7) : Not available.
Polyethylene (25213-02-9) : Not available.
Black concentrate : Not determined.

Skin Irritation:

Polyethylene (25087-34-7) : Not available.
Polyethylene (25213-02-9) : Not available.
Black concentrate : Not determined.

Carcinogenicity:

Polyethylene (25087-34-7) : Not available.
Polyethylene (25213-02-9) : Not available.
Black concentrate : Not determined.

Mutagenicity:

Polyethylene (25087-34-7) : Not available.
Polyethylene (25213-02-9) : Not available.
Black concentrate : Not determined.

SECTION 12: Ecological Information

Polyethylene (25087-34-7) : Non-biodegradable. Avoid uncontrolled releases.
Polyethylene (25213-02-9) : Non-biodegradable. Avoid uncontrolled releases.
Black concentrate : Not determined.

SECTION 13: Disposal Considerations

Spill : Pellets may create a slipping hazard and should be swept up when spilled.

Waste Disposal : Dispose in accordance with local, state, provincial and federal regulations.

SECTION 14: Transport Information

Transportation of Dangerous Goods (TDG) : Not regulated for this mode of transport.
International Maritime Dangerous Goods (IMDG) : Not regulated for this mode of transport.
International Air Transportation Authority (IATA) : Not regulated for this mode of transport.

SECTION 15: Regulatory Information

International Inventories : All component(s) comprising this product are either exempted or listed or with chemical notification requirements on the following Inventory lists:

USA (TSCA) - Toxic Substances Control Act Section 8(b) Inventory
EU (EINECS) - European Inventory of Existing Commercial Chemical Substances)
Canada (DSL) - Domestic Substances List
Philippines (PICCS) - Philippines Inventory of Chemicals and Chemical Substances
Japan (ENCS) - Japan Existing and New Chemical Substances
China (IECSC) - China Inventory of Existing Chemical Substances
Australia (AICS) - Australian Inventory of Chemical Substances
Korea (KECL) - Korean Existing and Evaluated Chemical Substances
New Zealand (NZIoC) - New Zealand Inventory of Chemical Substances

Other Regulations: : **Workplace Hazardous Materials Information System (WHMIS):** This product is not WHMIS controlled.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

Chemical Weapons Convention (CWC): This product does not contain any component(s) listed under the Chemical Weapons Convention Schedule of Chemicals.

Regulation (EC) No 1272/2008 including amendments : No classification and labelling is necessary for this preparation.

SECTION 16: Other Information

Contact Information Safety, Regulatory and Environmental: +966.13.341.8793

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Disclaimer: The information contained herein is based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to such data or information. The user is responsible for determining whether the product is suitable for its intended conditions of use.