

SAFETY DATA SHEET

Revision: 4 May 2015

Version number: 1

SECTION 1: Identification

- 1.1 Product identifier used on the label** IUPITAL
- 1.2 Grade** F20-03 E9000
- 1.3 Other identification** Polyoxymethylene (POM) copolymer compound.
- 1.4 Recommended use of the chemical and restrictions on use** Industrial raw material for injection molding or extrusion molding.
Restrictions on use: not available.
- 1.5 Manufacturer, importer, or other responsible party** MEP America, Inc.
790 Welch Road, Commerce Township, MI 48390.
Tel: +1-248-669-6418.

Non-US supplier:

Mitsubishi Engineering-Plastics Corp.,
Environment and Quality Assurance Department,
Shiodome Sumitomo-Bldg. 25F,
9-2, Higashi-shinbashi 1-Chome, Minato-ku, Tokyo 105-0021, Japan;
Tel +81-3-6274-9060; Fax +81-3-6274-9085.

- 1.6 Emergency phone number** Tel: +1-248-669-6418
(business hours, Monday to Friday, 9:00 am to 5:00 pm, EST).

SECTION 2: Hazard(s) identification

- 2.1 Classification of the chemical in accordance with paragraph (d) of § 1910.1200** Not hazardous according to the OSHA Hazard Communication Standard 2012.
- 2.2 Symbols, signal word, hazard and precautionary statements**
- | | |
|--------------------------|-------|
| Pictogram | None. |
| Signal word | None. |
| Hazard statements | None. |
| Precautionary statements | None. |
- 2.3 Other hazards** Not available.
- 2.4 Statement of unknown hazard** The product does not contain substances present at >1% with unknown acute toxicity.

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SECTION 3: Composition/information on ingredients

3.1 Mixtures

<i>Declarable components</i>	<i>Conc. (wt%)</i>	<i>CAS No.</i>
None		
<i>Other components</i>		
Polyoxymethylene copolymer (POM)	>99	24969-26-4
Carbon black	<1	1333-86-4

SECTION 4: First-aid measures

4.1 Description of first aid measures

Inhalation	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms, call a doctor.
Skin	If dust, or vapor or condensation products from heated product, contacts the skin, wash off well with soap and water. If skin irritation or rash occurs, get medical attention. Launder clothing before re-use. If melted product on skin: immediately cool with clean water for 15 minutes. Do not try to peel off solidified resin from the skin. Get medical attention.
Eye	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical attention.
Ingestion	Rinse mouth with water, and give milk or water to drink. Call a poison center or doctor if you feel unwell. Do not induce vomiting, unless instructed by medical personnel.

4.2 Most important symptoms/effects, acute and delayed Dust from processing, and vapor from heated resin, may irritate the eyes, skin and respiratory system.

4.3 Indication of immediate medical attention and special treatment needed Treat symptoms as they occur.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable	Pouring water, water spray and fire extinguishers. Pouring water is most preferable.
Unsuitable	Carbon dioxide gas and dry chemicals lack cooling capacity, with the

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	possibility of re-ignition.
5.2 Special hazards arising from the chemical	Not classified as flammable, but is a combustible thermoplastic material which will melt and drip when ignited. During a fire will produce strong heat, black smoke, and toxic gases including carbon oxides, formaldehyde, paraformaldehyde, and trioxane.
5.3 Special protective equipment and precautions for fire-fighters	Remove containers from fire or cool them with water spray. Firefighters should wear an approved self-contained breathing apparatus and full protective clothing.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures	For large spills, wear full personal protection. Keep unauthorized personnel from the spillage area. May cause slip hazard. Ventilate area and avoid creating airborne dust. Take precautionary measures against static discharge and use non-sparking equipment. Follow prescribed procedures for responding to large spills and reporting to authorities. For recommended personal protective equipment, see Section 8. For disposal considerations, see Section 13.
6.2 Methods and material for containment and cleaning up	Prevent product from entering water courses or drainage system. Clean up spill as soon as possible. Carefully sweep up with brush or collect using vacuum cleaner. Place waste in a container for disposal.

SECTION 7: Handling and storage

7.1 Precautions for safe handling	Avoid skin and eye contact, and inhalation of any dust or vapor during heat processing. Use protective measures as described in Section 8. Use only in a well-ventilated area. Wash hands after use. Dust that develops from processing may cause dust explosion hazard. Always clean up dust. Keep away from sources of ignition. Use only non-sparking equipment. Ground the pneumatic conveying, bag filter, hopper and such facilities to remove static electricity. When processing molten resin, use protective equipment to prevent burns. In order to avoid hazardous decomposition, purged plastics should be cut into small, flat forms to allow rapid cooling. Do not allow molten resin to remain in container at elevated temperature for long periods.
7.2 Conditions for safe storage, including any incompatibilities	Protect from direct sunlight. Store away from fire and heat sources in a well-ventilated area.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Exposure limits	Carbon black: ACGIH TLV: TWA 3 mg/m ³ ; OSHA PEL: TWA 3.5 mg/m ³ ; NIOSH REL: TWA 3.5 mg/m ³ .
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8.2 Engineering controls	<p>Good general ventilation is recommended for handling the product.</p> <p>For processing, where dust or vapor might be formed, local exhaust ventilation or use in a closed system is recommended.</p>
8.3 Individual protection measures	<p>The need for personal protective equipment should be based on a workplace risk assessment for the particular use.</p> <p>Avoid skin and eye contact by wearing chemical resistant gloves and protective glasses with side seals, or goggles. Electroconductive shoes are recommended.</p> <p>During processing, if exposure to dust or vapors is possible, wear a dust mask or organic vapor mask.</p> <p>When handling a molten resin, wear heat-resistant gloves and long-sleeved clothing to prevent burns.</p> <p>PPE should be to state or federal standards. Consult manufacturers concerning breakthrough times.</p>

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	Pellet
Odor	Not available
Odor threshold	Not available
pH	Not available
Melting/freezing point	160 to 170 °C
Initial boiling point/range	Not available
Flash point	Not available
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Flamm. or expl. limits	Not available
Vapor pressure	Not available
Vapor density	Not available
Relative density	1.4
Solubilities	Insoluble in water
Partition coeff. (log K_{ow})	Not available
Auto-ignition temp.	>400 °C
Decomposition temp.	Begins at 240 °C
Viscosity	Not available

9.2 Other information Not available

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SECTION 10: Stability and reactivity

10.1 Reactivity	Not available.
10.2 Chemical stability	Stable at room temperature under normal storage and handling conditions.
10.3 Possibility of hazardous reactions	No hazardous decomposition products when stored and handled correctly. Hazardous polymerization does not occur.
10.4 Conditions to avoid	Avoid storage at high temperatures, or in direct sunlight.
10.5 Incompatible materials	Strong acids, alkalis, and oxidising agents.
10.6 Hazardous decomposition products	Smoldering or incomplete combustion leads to the formation of a toxic gas mixture, including carbon oxides, formaldehyde, paraformaldehyde, and trioxane.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity	Not classified.
Skin corrosion/irritation	Not classified due to lack of data.
Serious eye damage/irritation	Not classified due to lack of data.
Respiratory or skin sensitization	Not classified due to lack of data.
Germ cell mutagenicity	Not classified due to lack of data.
Carcinogenicity	Not classified due to lack of data. The product contains a small amount (<1%) of carbon black. Carbon black: classified by IARC as Group 2B: possibly carcinogenic to humans; Deutsche Forschungsgemeinschaft (DFG) Category 3B: substances for which in vitro or animal studies have yielded evidence of carcinogenic effects that is not sufficient for classification of the substance in one of the other categories (inhalable fraction); ACGIH TLV-A3: confirmed animal carcinogen with unknown relevance to humans.
Reproductive toxicity	Not classified due to lack of data.
STOT-single exposure	Not classified due to lack of data.
STOT-repeated exposure	Not classified due to lack of data.
Aspiration hazard	Not classified.

SECTION 12: Ecological information

12.1 Ecotoxicity	Not available.
12.2 Persistence and degradability	Not expected to be readily biodegradable.

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12.3 Bioaccumulative potential Not available.

12.4 Mobility in soil Not available.

12.5 Other adverse effects Not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods Incineration or landfill may be suitable for this product and any recovered material. Disposal via the drains is not recommended.
This product and contaminated containers should be disposed of according to current local, state, or federal regulations.

SECTION 14: Transport information

14.1 UN Number Not classified as dangerous goods for transport.

14.2 UN proper shipping name Not applicable.

14.3 Transport hazard class(es) Not applicable.

14.4 Packing group Not applicable.

14.5 Environmental hazards Not classified as environmentally hazardous for transport.

14.6 Special precautions for user Not available.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the substance or mixture

	Section 302 (EHS TPQ)	Section 304 EHS RQ	CERCLA RQ	Section 313	RCRA Code	CAA 112(r) TQ
None						

OSHA: Hazard Communication Rule, 29 CFR, 1910.1200.

EPCRA (Emergency Planning and Community Right-to-Know Act): Section 302: Extremely Hazardous Substances (EHS), Threshold Planning Quantity (TPQ) in 40 CFR 355; EPCRA Section 304 gives EHS reportable quantities (RQ); Section 313 Toxic Chemicals, subject to annual reporting (40 CFR 372).

CERCLA (Comprehensive Environmental Response Compensation and Liability Act), Hazardous Substances; accidental release of substances above the Reportable Quantity (RQ) listed (in pounds) requires reporting; local reporting requirements may be in force.

RCRA Hazardous Wastes: RCRA P and U lists (40 CFR 261.33).

CAA Substances for Accidental Release Prevention: Clean Air Act 112 (r), Hazardous Air Pollutants;

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Threshold Quantities (TQ).

Other regulatory

Not available

SECTION 16: Other information

Revisions	This SDS is the first version in US format.
Abbreviations	ACGIH, American Conference of Governmental Industrial Hygienists; IARC, International Agency for Research on Cancer; NIOSH, US National Institute for Occupational Safety and Health; OSHA, US Occupational Safety and Health Administration; PEL, permitted exposure limit; REL, recommended exposure limit; STOT RE, specific organ toxicity repeated exposure; STOT SE, specific target organ toxicity single exposure; TWA, time-weighted average.
References	Search for chemicals; available at the European Chemicals Agency website: http://echa.europa.eu/ . List of Lists; Consolidated List of Chemicals Subject to the Emergency Planning and Community Right-To-Know Act (EPCRA), Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) and Section 112(r) of the Clean Air Act; US EPA; October 2012. Guide to Occupational Exposure Values; ACGIH, 2013. IARC Monographs on the Evaluation of Carcinogenic Risks to Humans: http://monographs.iarc.fr/ENG/Classification/ .
Basis of classification	The substance is classified on the basis of available information.

Disclaimer: The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the product's properties.