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SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: MECHETEC PPO BK Black Polyphenylene Oxide

PRODUCT USE: Engineering/Industrial grade thermoplastic stock shapes for subsequent

machining and fabrication.

MANUFACTURER: Polymer Industries

10526 AL Hwy 40 Henagar, AL 35978

Website: www.polymerindustries.com

PHONE NUMBERS: (256) 657-5197

2. HEALTH HAZARDS IDENTIFICATION

ACUTE OR IMMEDIATE EFFECTS/ROUTES OF EXPOSURE:

INGESTION: No hazard in normal industrial use.

SKIN: Unlikely to cause irritation even on repeated contact and no absorption

hazard in normal industrial use.

EYES: Can cause mechanical irritation if dusts are generated.

INHALATION: Shapes are not considered an inhalation hazard.



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2. HEALTH HAZARDS IDENTIFICATION (continued)

LONG TERM/DELAYED EFFECTS: None Known.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None Known.

CHRONIC/CARCINOGENICITY:

NTP: Not tested.
OSHA: Not regulated.
IARC: Not listed.

MEDICAL RESTRICTIONS: There are no known human health effects aggravated by exposure to this

product. However, certain sensitive individuals and individuals with respiratory impairments may be affected by exposure to components in the

processing vapors.

3. COMPOSITION / INFORMATION ON INGREDIENTS

| CAS NUMBER | WEIGHT % | |
|------------|---|--|
| 25134-01-4 | 50 – 100 | |
| 9003-55-8 | < 50 | |
| 9003-53-6 | < 50 | |
| 1333-86-4 | 0.1 - 1.0 | |
| 115-86-6 | 0.1 - 1.0 | |
| | 25134-01-4 9003-55-8 9003-53-6 1333-86-4 | |

SECTION 313 SUPPLIER NOTIFICATION:

All ingredients that are listed as toxic chemicals under Section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40CFR part 372 are listed in Section 15: Regulatory Information.

HAZARDOUS INGREDIENTS:

Components listed below are physical or health hazards as defined in the Hazard Communication Standard. The quantities represent typical or average values for the materials shown. Additional compositional data is provided in Section 15: Regulatory Information, subject to supplier notification requirements.

| Component Name | <u>%</u> | CAS Number | OSHA PEL | ACGIH TWA |
|----------------------------------|----------|------------|--------------------------------|--------------------------------|
| PHOSPHORIC ACID, TRIPHENYL ESTER | 1 - 5 | 115-86-6 | $3 \text{ mg/m}^3 \text{ TWA}$ | $3 \text{ mg/m}^3 \text{ TWA}$ |
| CARBON BLACK | 0.1 - 1 | 1333-86-4 | 3.5 mg/m ³ TWA | 3.5 mg/m ³ TWA |



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4. FIRST AID MEASURES

SKIN: If molten polymer contacts skin, cool rapidly with cold water. Do not

attempt to peel polymer from skin. Obtain medical attention for thermal

burns.

EYES: In case of eye contact, immediately flush eyes with plenty of water for at

least 15 minutes. Consult a physician if symptoms persist.

INHALATION: If exposure to fumes from overheating, move to fresh air. consult a physician

if symptoms persist.

5. FIRE FIGHTING MEASURES

AUTOIGNITION TEMPERATURE: 490 C (914 °F), estimated.

CONDITIONS OF FLAMMABILITY: Requires a continuous flame source to ignite.

HAZARDOUS PRODUCTS OF COMBUSTION:

Hazardous combustion products may include intense heat, dense black smoke, carbon monoxide, carbon dioxide and hydrocarbon fragments.

EXTINGUISHING MEDIA: Water spray and foam. Water is the best extinguishing medium. Carbon

dioxide and dry chemical are not generally recommended because their lack

of cooling capacity may permit re-ignition.

SPECIAL FIRE FIGHTING INSTRUCTIONS / PRECAUTIONS:

Fire fighters and others exposed to products of combustion should wear full protective clothing including self – contained, breathing apparatus. Fire fighting equipment should be thoroughly decontaminated after use.

6. ACCIDENTAL RELEASE MEASURES

SPILL OR RELEASE: Clean up by vacuuming or sweeping to prevent falls.

7. HANDLING AND STORAGE

HANDLING: Open containers only in well-ventilated area.

STORAGE: Dry storage. Keep containers closed to prevent contamination.



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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

VENTILATION: Local exhaust at processing equipment to keep particulates below

15 mg/m³, the OSHA limits for nuisance dusts. Grinding and machining of parts should be reviewed to assure that particulate levels are kept below

recommended standards.

PROTECTIVE EQUIPMENT:

SKIN: Protective gloves are required when handling hot polymer. long

sleeve cotton shirt and long pants when handling molten polymer.

EYE: Safety glasses are recommended to prevent particulate from entering eyes

while grinding or machining.

RESPIRATOR: None under normal processing, if ventilation is adequate.

EXPOSURE GUIDELINES: Grinding and machining of parts should be reviewed to assure that particulate levels

are kept below recommended standards. This material may contain carbon black

(UNITEM PEI BK). See the exposure limits below:

INGREDIENT AGENCY VALUE

PARTICULATES PEL (OSHA) 15 mg/m³ total dust

5 mg/m³ respirable dust

CARBON BLACK OSHA PEL 3.5 mg/m³

ACGIH TLV 3.5 mg/m³

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Stock shape may be rods or plates of different sizes. Black color.

ODOR: Slight or no odor.

MELTING POINT: This product does not exhibit a sharp melting point, but softens gradually

over a wide temperature range.

SOLUBILITY IN WATER: Insoluble **SPECIFIC GRAVITY:** 1.08

PERCENT VOLATILES: Negligible.

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable at normal temperatures and storage conditions.

CONDITIONS TO AVOID: None known for shapes.

MATERIALS TO AVOID: Not reactive.

11. TOXICOLOGICAL INFORMATION

CHRONIC TOXICITY: MECHETEC PPO extruded shapes are harmless.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE:

There are no known human health effects aggravated by exposure to this product.

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12. ECOLOGICAL INFORMATION

AQUATIC TOXICITY: Toxicity is expected to be low based on insolubility of polymer in water.

13. DISPOSAL CONSIDERATION

WASTE DISPOSAL: Preferred options are: recycling, incineration with energy recovery, and

landfill. Disposal must be in accordance with federal, state and local

regulations.

14. TRANSPORT INFORMATION

DOT HAZARD CLASS: Not regulated. **SHIPPING NAME:** Not regulated.

15. REGULATORY INFORMATION

SECTION 313 SUPPLIER NOTIFICATION (SARA TITLE III-TOXIC CHEMICALS LIST):

This product contains no known toxic chemicals subject to the reporting requirements of section 313 of the emergency planning and community right-to-know act of 1986 and 40 CFR372.

TSCA INVENTORY STATUS:

In compliance with TSCA inventory requirements for commercial purposes. In compliance with GHS developed by the U.N. and adopted on March 26, 2012. In compliance with OSHA revision HAZCOM Standards 2012

STATE REGULATIONS:

STATE RIGHT TO KNOW LAWS:

No substances on the state hazardous list, for the states indicated below, are used in the manufacture of products on this MSDS, with the exceptions indicated. While we do not specifically analyze these products, or the raw materials used in their manufacture, for substances on various state hazardous substances lists, to the best of our knowledge the products on this MSDS contain no such substances except for those specifically listed below:

PENNSYLVANIA: Substances on the Pennsylvania hazardous substances list present

at a concentration of 1% or more: None Known.

Substances on the Pennsylvania special hazardous substances list present at a

concentration of 0.01% or more: None Known.

CALIFORNIA PROPOSITION 65: Substances known to the state of California to cause cancer or

reproductive hazard: Toluene, Carbon Black

Component Reason Listed CAS # %
TOLUENE Development Toxicity, Initial date 1/1/91 108-88-3 <0.1
CARBON BLACK 1333-86-4 <0.1

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15. REGULATORY INFORMATION (continued)

STATE REGULATIONS (continued):

NEW JERSEY:

Substances on the New Jersey workplace hazardous substance list present at a concentration of 1% or more (0.1% for substances identified as carcinogens, mutagens, or teratogens): None Known.

HMIS RATING

| HEALTH | 0 |
|--------------|---|
| FLAMMABILITY | 1 |
| REACTIVITY | 0 |
| PPE | В |

16. OTHER INFORMATION

PREPARED BY: Technical Team

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REVISION DATE: December 01, 2017 SUPERCEDES REVISION DATED: Rev. 5 May 18, 2015

REVISION SUMMARY: Updated MECHETEC product brand name from previous UNINOR name and information.

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