Mitsubishi Chemical Advanced Materials
2120 Fairmont Avenue
Reading, PA, 19609
T: 610-320-6600
regulatorysupport@mcam.com
mcam.com

SAFETY DATA SHEET

ID# SDS-1705
Issue Date: June 1, 2015
Revised Date: January 15, 2020
Revision No. 002

Section 1: Identification

Product Identifier: Altron® 780 PPO

Manufacturer:
Mitsubishi Chemical Advanced Materials, Inc.
2120 Fairmont Ave.
Reading, PA 19605
(610) 320-6600

In case of an emergency, please call Chemtrec 1-800-424-9300.

Recommended Use: Engineering thermoplastic stock shape

Section 2: Hazard Identification

GHS – Classifications

Classification: None

Signal Word: None

Pictograms and Symbols: None

Hazard Statements: None

Precautionary Statements: None

Section 3: Composition/Information on Ingredients

This is a polymeric material. All constituents are encapsulated within the polymer system and therefore unlikely to result in exposure under normal conditions of processing and handling.

Chemical Name	CAS No.	Weight %
Poyphenylene Ether	25134-01-4	50-90
Glass	65997-17-3	10-30
Titanium dioxide	13463-67-7	1-5
Phosphoric acid	115-86-6	1-5

Section 4: First-Aid Measures

Eyes: Flush with plenty of water for at least 15 minutes. Seek medical attention if irritation continues.

Mitsubishi Chemical Advanced Materials
2120 Fairmont Avenue
Reading, PA, 19609
T: 610-320-6600
regulatorysupport@mcam.com
mcam.com

Skin: No health risks concerning skin contact at room temperature. Wash with soap and water. If molten material comes in contact with the skin, cool under running water. Do not attempt to remove the molten material from the skin. Get medical attention immediately.
Inhalation: If fumes from overheating are inhaled, remove to fresh air. Seek medical attention if respiratory symptoms occur or breathing becomes difficult.
Ingestion: Rinse the victim's mouth with plenty of water. Do not induce vomiting. Seek medical attention.

Section 5: Fire-Fighting Measures

Fire-fighters should protect themselves from decomposition and combustion products by using a full-face self-contained breathing apparatus and impervious protective clothing. Extinguish fires with water spray and foam. Carbon dioxide and dry chemical media are not recommended because their lack of cooling capacity may permit re-ignition.

Hazardous gases/vapors produced in fire are: carbon oxides and Hydrocarbon fragments.

Dust is flammable and explosive when finely divided and suspended in air.

Section 6: Accidental Release Measures

If a spill occurs, stop the leak at the source and sweep up for disposal. Do not flush to sewers or waterways.

Section 7: Handling and Storage

Precautions for Safe Handling
Personal hygiene such as washing the hands and face immediately after working with this material and before eating is recommended.

Dust may form explosive mixtures with air. Avoid dust formation and control ignition sources. Plastic dust particles suspended in air are combustible and may be explosive. Keep away from heat, sparks, flame, and other ignition sources. Prevent dust accumulations and dust clouds. Employ ground, bonding, venting, and explosive relief provisions in accordance with accepted engineering practices and NFPA provisions in any process capable of generating dust and/or static electricity. Explosion hazards apply only to dusts, not granular forms of this product.

The handling of powder in both loading and unloading operations, as well as fabrication, may cause dust to be formed and necessary precautions for personal protection should be used. As with all finely divided materials precautions should be taken to avoid inhalation and eye contact.

If in dust form, transfer from storage with a minimum amount of dusting. Ground all transfer, blending, and dust collecting equipment to prevent static sparks in accordance with NFPA 70 "National Electric Code." Review and comply with all relevant NFPA provisions, including but not limited to NFPA 484 and NFPA 654 related to combustible dust hazards. Remove all ignition sources from material handling, transfer, and processing areas where dust may be present. Local exhaust ventilation should be provided in work area.

Precautions for Safe Storage
Store in a sprinkler protected warehouse. Since products are organic they will burn with a hot flame if ignited. Avoid contact with ignition sources such as open flames. Keep a fire extinguisher near if

Mitsubishi Chemical Advanced Materials
2120 Fairmont Avenue
Reading, PA, 19609
T: 610-320-6600
regulatorysupport@mcam.com
mcam.com

welding is done in the area of organic products. If a heat source is present, keep the area well ventilated.

Section 8: Exposure Controls/Personal Protection

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH REL
Particulates	10 mg/m^3	15 mg/m^3 – Total 5 mg/m^3 – Respirable	Not Determined
Titanium dioxide	10 mg/m^3	15 mg/m^3 – Total 5 mg/m^3 – Respirable	Not Determined
Glass	10 mg/m^3	15 mg/m^3 – Total 5 mg/m^3 – Respirable	Not Determined
Phosphoric acid	1 mg/m^3 – TWA 3 mg/m^3 – STEL	1 mg/m^3 – TWA	1 mg/m^3 – TWA 3 mg/m^3 – STEL

Engineering Measures:
Provide local exhaust ventilation to keep airborne particulate concentrations below 15 mg/m^3, the OSHA limit for nuisance dusts.

Personal Protective Equipment: Eyes/Face
Safety glasses with side shields.

Personal Protective Equipment: Skin
When handling molten material, protective clothing such as long sleeves or laboratory coat should be worn. Use heat-resistant gloves, boots and face protection.

Personal Protective Equipment: Respiratory
If levels are above published OELs, then a NIOSH approved respirator.

Good industrial hygiene practice should be followed which includes preventing eye contact, minimizing skin contact and minimizing inhalation of dust, vapors or mist.

Section 9: Physical and Chemical Properties

Appearance and Odor	Solid in rod, plate or bushing form with no odor
Odor Threshold	No Information Available
Specific Gravity (Relative Density)	>1
Solubility in Water	Insoluble
VOC Content (%)	Negligible
pH	No data available
Melting Point/Freezing Point	This product does not exhibit a sharp melting point, but softens gradually over a wide temperature range.
Vapor Pressure	No data available
Vapor Density	No data available
Evaporation Rate	No data available
Boiling Point	No data available
Flammability	Combustible
Flash Point	914°F (Estimated)
Explosion Data	LEL – No data available UEL – No data available

Mitsubishi Chemical Advanced Materials
2120 Fairmont Avenue
Reading, PA, 19609
T: 610-320-6600
regulatorysupport@mcam.com
mcam.com

Auto ignition Point	No data available
Partition Coefficient: n-octanol/water	No data available
Decomposition Temperature	No data available
Viscosity	No data available

Section 10: Stability and Reactivity

Reactivity:
None known

Chemical Stability:
Material is stable under normal industrial conditions and is not susceptible to hazardous polymerization.

Conditions to Avoid:
To avoid thermal decomposition, avoid elevated temperatures. Heating can result in the formation of gaseous decomposition products, some of which may be hazardous.

Incompatibility:
None known

Hazardous Decomposition Products:
At elevated temperatures trace levels of alkylphenols, aldehydes and alcohols, aliphatic amines, dimethylcyclohexanone, trimethylanisole, dihydrobenzofuran, styrene, 4-vinylcyclohexene, phenols, triarylphosphate esters, cyclopentanone, carbon dioxide, carbon monoxide will occur.

Section 11: Toxicological Information

Signs and Symptoms of Overexposure: Eye irritation signs and symptoms may include a burning sensation, redness, swelling, and/or blurred vision. Skin irritation signs and symptoms may include a burning sensation, redness and swelling. Respiratory irritation signs and symptoms may include a temporary burning sensation of the nose and throat, coughing, and/or difficulty breathing.

Aggravated Medical: None.

Acute Effects: Non-toxic**.**
Skin Corrosion/Irritation: Not irritating to the skin.
Serious Eye Damage/Irritation: Particulates can be mechanically irritating to the eyes.
Ingestion: None.
Inhalation: Inhalation of particulates may produce respiratory tract irritation.
Respiratory or Skin Sensitization: Not expected to be a sensitizer.

Subchronic Effects:
In a 13 week dust inhalation study, laboratory rats were exposed to up to 50 mg/m3 PPO dust for 6 hrs/day for 13 weeks with a 13-week non-exposure recovery period. There was no evidence of systemic toxicity at the highest dose. Localized toxicity was observed in the lungs and regional lymph nodes of the 50 mg/m3 exposure group. These findings decreased in severity in the 7 and 1 mg/m3 exposure groups. A no adverse effects level for PPO is estimated to be 7 mg/m3 and a no observable effect level is 1 mg/m3/

Chronic Effects:

Germ Cell Mutagenicity: Not expected to be a germ cell mutagen.

Mitsubishi Chemical Advanced Materials
2120 Fairmont Avenue
Reading, PA, 19609
T: 610-320-6600
regulatorysupport@mcam.com
mcam.com

Carcinogenicity: Not classifiable as carcinogen to humans (group 3 IARC).
Reproductive Toxicity: There aren't known reproductive toxicity effects.
STOT-single Exposure: At dust form, may cause respiratory irritation with cough and sneezing.
STOT –multiple Exposure: There aren't known repeated exposure effects.
Aspiration Hazard: No data available. Not expected to be an aspiration hazard.

Primary Route of Entry: Inhalation of particulates.

Section 12: Ecological Information

Ecotoxicity:
There aren't known ecological toxicity values.

Persistence and degradability:
It's expected high persistence and slow degradability.

Bioaccumulative Potential:
It's expected moderate to high bioaccumulative potential.

Mobility in Soil:
No data available

Other Adverse Effects:
No data available

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)

Section 13: Disposal Considerations

Dispose of in accordance with federal, state and local regulations.

Section 14: Transportation Information

US Department of Transportation Classification (49CFR)

Not classified as hazardous for transport.

Section 15: Regulatory Information

SARA Section 302 & 304:
No chemicals

SARA Section 313:
The following component is subject to reporting levels established by SARA Title III, Section 313:

- Zinc (CAS #7440-66-6) – 0.1-1.0%

TSCA:
All components of this product are either listed or are exempt on the TSCA inventory.

Mitsubishi Chemical Advanced Materials
2120 Fairmont Avenue
Reading, PA, 19609
T: 610-320-6600
regulatorysupport@mcam.com
mcam.com

Section 16: Other Information

Label Information

Product Identifier: Altron® 780 PPO

Manufacturer:
Mitsubishi Chemical Advanced Materials, Inc.
2120 Fairmont Ave.
Reading, PA 19605
(610) 320-6600

In case of an emergency, please call Chemtrec 1-800-424-9300.

Classification: None

Signal Word: None

Pictograms and Symbols: None

Hazard Statements: None

Precautionary Statements: None

Revision Date	Reason for Revision
June 1, 2015	SDS format
September 7, 2018	Three year review
January 15, 2020	Name change to MCAM and product name change to Altron® 780 PPO.

The information set forth herein has been gathered from standard reference materials and/or supplier test data and is, to the best knowledge and belief of Mitsubishi Chemical Advanced Materials, Inc., accurate and reliable. Such information is offered solely for your consideration, investigation and verification, and it is not suggested or guaranteed that the hazard precautions or procedures mentioned are the only ones that exist. Mitsubishi Chemical Advanced Materials, Inc., makes no warranties, expressed or implied, with respect to the use of such information or the use of the specific material identified herein in combination with any other material or process, and assumes no responsibility therefor.

Mitsubishi Chemical Advanced Materials
2120 Fairmont Avenue
Reading, PA, 19609
T: 610-320-6600
regulatorysupport@mcam.com
mcam.com