



## MATERIAL SAFETY DATA SHEET

**MSDS# 1502**

QUADRANT EPP  
2120 FAIRMONT AVENUE  
P.O. BOX 14235  
READING, PA. 19612-4235

### SECTION 1

TELEPHONE NUMBERS:  
PRODUCT INFORMATION (Quadrant EPP ) -  
610-320-6600  
TRANSPORTATION EMERGENCY (CHEMTREC) -  
800-424-9300

### MATERIAL IDENTIFICATION

PRODUCT NAME: SEMITRON ESd 410C

CHEMICAL NAME: POLYETHERIMIDE (PEI)

CAS NO.: 61128-46-9 (BASE POLYMER)

PRODUCT USE: ENGINEERING THERMOPLASTIC STOCK SHAPE FOR  
SUBSEQUENT FABRICATION.

TSCA INVENTORY STATUS: ALL REPORTABLE INGREDIENTS ARE LISTED IN THE  
TSCA CHEMICAL SUBSTANCE INVENTORY.

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### SECTION 2

#### HAZARDOUS INGREDIENTS

IDENTITY	CAS#	CONCENTRATION	TVL (TWA)
NA	NA	NA	NA

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### SECTION 3

#### HEALTH HAZARD DATA

ACUTE OR IMMEDIATE EFFECTS: ROUTES OF ENTRY AND SYSTEMS

INGESTION: NOT A PROBABLE ROUTE OF EXPOSURE.  
SKIN: SEEK MEDICAL ATTENTION IF RASH OR BURN OCCURS.  
EYE: MECHANICAL IRRITATION ONLY.  
INHALATION: NOT LIKELY TO BE INHALED DUE TO PHYSICAL FORM.

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**SECTION 4**EMERGENCY FIRST AID

If exposed to fumes from overheating, move to fresh air. Consult a physician if symptoms persist.

Wash skin with soap and plenty of water.

Flush eyes with water. Consult a physician if symptoms persist.

If molten polymer contact skin, cool rapidly with cold water. Do not attempt to peel polymer from skin. Obtain medical attention for the burn area.

CHRONIC EFFECTS: **NONE KNOWN.**

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY THIS MATERIAL: NONE KNOWN.

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**SECTION 5**FIRE AND EXPLOSION HAZARD DATA

FLASH IGNITION TEMPERATURE: 1000 F./538 C., ESTIMATED.

UNUSUAL FIRE, EXPLOSION HAZARDS: **NONE KNOWN.**

HAZARDOUS COMBUSTION PRODUCTS: HAZARDOUS COMBUSTION PRODUCTS MAY INCLUDE INTENSE HEAT, DENSE BLACK SMOKE, CARBON MONOXIDE, CARBON DIOXIDE, NITROGEN OXIDES, HYDROGEN CYANIDE AND HYDROCARBON FRAGMENTS.

SPECIAL FIRE FIGHTING INSTRUCTIONS: 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.

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.

**>= Physical health Hazards:**

DUST MAY FORM EXPLOSIVE MIXTURES WITH AIR. AVOID DUST FORMATION AND CONTROL IGNITION SOURCES. ALL 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 GROUNDING, 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. SEE ALSO SPECIAL PRECAUTIONS SECTION BELOW.

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## SECTION 6

### ACCIDENTAL RELEASES

SPILL OR RELEASE: Clean up by vacuuming or wet sweeping to minimize dust exposure.

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## SECTION 7

### STORAGE CONDITIONS

Dry storage.

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## SECTION 8

### PROTECTION INFORMATION

EYE: Safety glasses are recommended to prevent particulate matter from entering eyes while grinding or machining.

SKIN: Protective gloves are required when handling hot polymer. Also, long sleeve cotton shirt and long pants if handling molten polymer.

VENTILATION: Local exhaust at processing equipment to keep particulates below 2.5 mg/m<sup>3</sup>, the OSHA limit for graphite dust. Grinding and machining of parts should be reviewed to assure that particulate levels are kept at recommended levels.

RESPIRATOR: When dust or powder from secondary operations, such as sawing, machining or grinding, are not adequately controlled use respirator approved for protection from dust.

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**SECTION 9**PHYSICAL / CHEMICAL DATA

APPEARANCE: STOCK SHAPE MAY BE ROD OR PLATE FORM, BLACK IN COLOR.

ODOR: SLIGHT ODOR.

MELTING POINT: THIS PRODUCT DOES NOT EXHIBIT A SHARP MELTING POINT, BUT SOFTENS GRADUALLY OVER A WIDE TEMPERATURE RANGE.

SOLUBILITY IN WATER: INSOLUBLE.

VOLATILE CONTENT %: NEGLIGIBLE.

SPECIFIC GRAVITY: 1.35

**>= Precautions For Repair & Maintenance Of Contaminated Equipment: Eliminate ignition sources:**

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.

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**SECTION 10**HAZARDOUS REACTIVITY

STABILITY AT ROOM TEMPERATURE: **STABLE.**

MATERIALS TO AVOID: **NOT REACTIVE.**

CONDITIONS TO AVOID: **NONE KNOWN FOR SHAPES.**

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**SECTION 11**

TOXICOLOGICAL INFORMATION

CHRONIC TOXICITY: SEMITRON ES 410C PRODUCTS DO NOT APPEAR TO POSSESS ANY TOXICOLOGICAL PROPERTIES.

MEDICAL CONDITIONS PRONE TO AG RAVATION BY EXPOSURE: THERE ARE NO KNOWN HUMAN HEALTH EFFECTS AG RAVATED BY EXPOSURE TO THIS PRODUCT.

CARCINOGENICITY: NONE KNOWN.

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**SECTION 12**

ECOLOGICAL INFORMATION

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

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**SECTION 13**

DISPOSAL

WASTE DISPOSAL: Recycling is encouraged, Landfill or incineration in compliance with Federal, State, and Local regulations.

**SECTION 14**

TRANSPORT INFORMATION

DOT HAZARD CLASS: NA

SHIPPING NAME: NA

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**SECTION 15A**  
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 CFR 372.

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 Material Safety Data sheet, 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 Material Safety Data Sheet 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:  
**NONE KNOWN.**

SUBSTANCES KNOWN TO THE STATE OF CALIFORNIA TO CAUSE BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM: **NONE KNOWN.**

**SECTION 15B**  
**LABELING INFORMATION**

<b>Health</b>	<b>0</b>
<b>Flammability</b>	<b>1</b>
<b>Reactivity</b>	<b>0</b>
<b>PPE</b>	<b>A</b>
<b>#Acute</b> <b>*Chronic</b>	

**SECTION 16**

MISCELLANEOUS INFORMATION

Issued by: Richard Frey, SHE Manager, NA

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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 DSM EPP 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. DSM EPP 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.

NA = Not applicable

NE = Not established.

= New or revised information in this section when “ “ appears in the left margin.

**END OF MSDS**