



MATERIAL SAFETY DATA SHEET

MSDS# 1705

SECTION 1

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

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

MATERIAL IDENTIFICATION

PRODUCT NAME: **NORYL 780**

CHEMICAL NAME: **POLYPHENYLENE ETHER**

CAS NO.: **25134-01-4**

PRODUCT USE: **EXTRUDED MATERIAL, ENGINEERING THERMOPLASTIC STOCK
SHAPE FOR SUBSEQUENT FABRICATION.**

TSCA INVENTORY STATUS: **THIS PRODUCT IS IN COMPLIANCE WITH ALL RULES
AND ORDERS OF TSCA**

SECTION 2

<u>HAZARDOUS INGREDIENTS</u>	<u>%</u>	<u>CAS NUMBER</u>	<u>OSHA PEL</u>	<u>ACGIH TWA</u>
GLASS	10 - 30	65997-17-3	NO PEL ESTABLISHED	10 mg/m3 (resp. fr.)
TITANIUM OXIDE	1 - 5	13463-67-7	Total Dust 15 mg/m3 TWA	10 mg/m3 TWA
PHOSPHORIC ACID	1 - 5	115-86-6	3 mg/m3 TWA	3 mg/m3

SECTION 3

HEALTH HAZARD DATA

ACUTE OR IMMEDIATE EFFECTS: ROUTES OF ENTRY AND SYSTEMS

INGESTION: **NO HAZARD IN NORMAL INDUSTRIAL USE.**
SKIN: **MOLTEN NYLON CAUSES THERMAL BURNS.**
EYE: **MECHANICAL IRRITATION ONLY FROM GENERATED DUST.**
INHALATION: **SHAPES NOT RESPIRABLE.**

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 plenty of water. Consult a physician if symptoms persist. After flushing, remove contact lenses
- If molten polymer contacts skin, cool rapidly with cold water. Do not attempt to peel polymer from skin. Obtain medical attention to thermal burn.

CHRONIC EFFECTS: NONE KNOWN.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY THIS MATERIAL: NONE KNOWN.

SECTION 5

FIRE AND EXPLOSION HAZARD DATA

FLASH IGNITION TEMPERATURE: **REQUIRES A CONTINUOUS FLAME SOURCE TO IGNITE. 490 C (914 F) ESTIMATED.**

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

HAZARDOUS DECOMPOSITION PRODUCTS: **INTENSE HEAT, SMOKE, CARBON DIOXIDE, CARBON MONOXIDE, and HYDROCARBON FRAGMENTS.**

SPECIAL FIRE FIGHTING INSTRUCTIONS: **FIRE FIGHTERS AND OTHERS EXPOSED TO PRODUCTS OF COMBUSTION SHOULD WEAR FULL PROTECTIVE CLOTHING INCLUDING SELF-CONYAINED BREATHING APPARATUS. FIRE FIGHTING EQUIPMENT SHOULD BE THOROUGHLY DECONTAMINATED AFTER USE.**

EXTINGUISHING MEDIA: **WATER SPRAY AND FOAM. CARBON DIOXIDE AND DRY CHEMICAL ARE NOT 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.

SECTION 6

ACCIDENTAL RELEASES

SPILL OR RELEASE: **GATHER AND STORE IN A CLOSED CONTAINER PENDING A WASTE DISPOSAL EVALUATION. ALLOW MOLTEN MATERIAL TO SOLIDIFY BEFORE DISPOSAL.**

SECTION 7

STORAGE CONDITIONS

STORE IN A COOL DRY PLACE. AVOID EXCESSIVE HEAT AND IGNITION.

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 requirements must be determined to limit exposure from fumes and dust.

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

SECTION 9

PHYSICAL/CHEMICAL DATA

APPEARANCE: **STOCK SHAPE MAY BE ROD, PLATE, OR BUSHING.**

ODOR: **ESSENTIALLY ODORLESS.**

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

SOLUBILITY IN WATER: **INSOLUBLE**

VOLATILE CONTENT: **NEGLIGIBLE**

SPECIFIC GRAVITY: **>1**

>= 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.

SECTION 10

HAZARDOUS REACTIVITY

STABILITY AT ROOM TEMPERATURE: **STABLE.**

MATERIALS TO AVOID: **NONE KNOW.**

CONDITIONS TO AVOID: **DO NOT EXCEED MELT TEMPERATURE RECOMMENDATIONS.**

SECTION 11TOXICOLOGICAL INFORMATION

ACUTE HEALTH HAZARD

ACUTE ORAL: ORAL LD50 RAT >5 g/kg ORAL TOXICITY IS ESTIMATED FROM TESTS ON SIMILAR MATERIALS.

EYE CONTACT: PRODUCT NOT CONSIDERED PRIMARY IRRITANT.

SKIN CONTACT: PRODUCT NOT CONSIDERED PRIMARY SKIN IRRITANT.

SUBCHRONIC HEALTH HAZARD; 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 GROUPS. A NO ADVERSE EFFECT LEVEL FOR PPO IS ESTIMATED TO BE 7 mg/m³ AND A NO OBSERVABLE EFFECT LEVEL IS 1 mg/m³.

CHRONIC HEALTH HAZARD:

CARCINOGENIC PROPERTIES:

NTP: NOT TESTED

OSHA: NOT REGULATED

IARC: NOT LISTED

SECTION 12ECOLOGICAL INFORMATION

GENERAL: THIS MATERIAL IS NOT EXPECTED TO BE HARMFUL TO THE ECOLOGY.

SECTION 13DISPOSAL

SPILL OR RELEASE: Clean up to minimize dust exposure.

WASTE DISPOSAL: Recycling is encouraged, Landfill or incineration in compliance with federal, state, and local regulations.

SECTION 14TRANSPORT INFORMATION

DOT HAZARD CLASS: **NA**

SHIPPING NAME: **NA**

**SECTION 15A
REGULATORY INFORMATION**

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

If any components in this product are SARA 313 listed as reportable, they are shown below. The quantities listed for elements represent typical or average values for compounds containing the element.

Component	CAS	%
ZINC	7440-66-6	0.1 - 1

STATE RIGHT TO KNOW LAWS:

No substances on the state hazardous list, for the states I 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 AND OR REPRODUCTIVE HAZARD:

COMPONENT	REASON LISTED	CAS #	%
TOLUENE	DEVELOPMENT TOXICITY INITIAL DATE 1/1/91	108-88-3	0.01 - 0.1

**SECTION 15B
LABELING INFORMATION**

Health	0
Flammability	1
Reactivity	0
PPE	B
#Acute *Chronic	

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 Quadrant 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. Quadrant 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