

SDS DATE: June 2, 2015

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Virgin PTFE Molded Shapes

SYNONYMS: None

PRODUCT CODES: 8765, 8764, Texolon® High Purity (THP)

MANUFACTURER: Technetics Group Houston

ADDRESS: 10633 West Little York Road, Suite 300, Houston, TX 77041

PRODUCT INFORMATION: 713-983-4261 SAFETY INFORMATION: 713-983-4212

PRODUCT USE: Raw material for industrial components. Offers chemical resistance and low friction.

SECTION 2: HAZARDS IDENTIFICATION

NFPA RATING: Health: 3, Flammability: 1, Reactivity: 0 HMIS CLASIFICATION: Health: 1, Flammability: 1, Reactivity: 0

EMERGENCY OVERVIEW: Dust from this product may be harmful if inhaled. High-heat processing may liberate

toxic gases. See sections 4, 5 and 10 for more information on thermal

decomposition products.

POTENTIAL HEALTH EFFECTS:

INHALATION: High concentrations of airborne dust may cause irritation to the respiratory tract.

Fumes may be produced if heated above 400 °C, inhalation may cause flu-like

symptoms.

INGESTION: Ingestion may cause irritation to the gastrointestinal tract

EYE CONTACT: May cause irritation to the eyes due to mechanical abrasion of particles SKIN CONTACT: Generally does not cause skin irritation. If melted polymer contacts skin, cool

quickly with water but do not peel from skin. Seek medical attention immediately.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None known

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT	CAS-NO	WEIGHT %
PTFE - Polytetrafluoroethylene	9002-84-0	100

SECTION 4: FIRST AID MEASURES

INHALATION: Move to fresh air and monitor for symptoms, if cough or irritation develops, give a

glass of water. Never give anything by mouth to an unconscious person. If

symptoms persist seek medical attention.

SKIN CONTACT: Wash material from the skin with plenty of soap and water. EYE CONTACT: Flush eyes with plenty of water while holding eyelids open.

INGESTION: If person is conscious, rinse mouth with water; never give anything by mouth to an

unconscious person.

NOTES TO PHYSICIAN: High heat processing of this product liberates thermal decomposition gases, which

when inhaled can result in polymer fume never. This condition is characterized by influenza type symptoms (fever, cough and malaise), which usually occurs within a few hours and resolves within 48 hours. Following severe exposure the patient should be kept under medical surveillance for at least 48 hours since delayed

pulmonary edema may develop.



SECTION 5: FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA:

Use media suitable for surrounding fire. Product does not support combustion or flame

UNSUITABLE EXTINGUISH MEDIA/METHODS: None

HAZARDOUS COMBUSTION PRODUCT OR GASES:

Decomposition of this product at temperature above 300°C (572°F) can form hydrogen fluoride (HF), but HF will only accumulate with continuous exposure to excess heat in a sealed vessel.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS:

Self-contained breathing apparatus (SCBA) is required.

SECTION 6: ACCIDENTAL RELEASE MEASURES

CONTAINMENT TECHNIQUES: Restrict area where spill occurred. Tarp spilled material if outdoors to prevent wind

dispersion until clean up can occur.

ENVIRONMENTAL PROTECTION: No special environmental precautions required.

METHODS FOR CLEANING UP: Refer to Section 8 for exposure controls. Restrict area. Ensure adequate

ventilation. Gently sweep or vacuum spilled material and collect for disposal.

Mop or wipe residual from surface using water.

SECTION 7: HANDLING AND STORAGE

SAFE HANDLING PRECAUTIONS:

Avoid creating dust and heating above 260°C (PTFE).

If these conditions cannot be avoided, use adequate ventilation to capture dust or decomposition products at the source.

SAFE STORAGE CONDITIONS:

Keep containers and product tightly closed in a cool, well-ventilated place.

INCOMPATIBLE PRODUCTS:

None known

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Provide local exhaust ventilation in your process to capture dust or thermal

decomposition gases at their source. Refer to the ACGIH Guide to Industrial

Ventilation for design assistance.

HAND PROTECTION: Rubber gloves

EYE PROTECTION: Wear tightly-fitting safety goggles in a dusty environment.

HYGIENE MEASURES: Avoid contact with skin, eyes and personal clothing. Do not contaminate tobacco

products. Wash hands thoroughly before eating.

EXPOSURE LIMIT: Particulates (Not Otherwise Regulated) with the following generic exposure limits:

OSHA PEL: 15 mg/m³ (total dust), 5 mg/m³ (respirable fraction)

COMPONENT	ACGIH TLV	OSHA PEL
PTFE	5 (resp)	15 (dust)

PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION: Wear a NIOSH approved air-purifying respirator when needed to maintain dust

exposures below the limits found in Section-2. Series-100 or HEPA filters are recommended. NOTE: A supplied-air respirator or self-contained breathing apparatus (SCBA) must be used to protect against thermal decomposition

products.



SKIN AND BODY PROTECTION: Wear full-length work clothes

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Matte or low-gloss white solid

FLAMMABILITY LIMIT:

EXPLOSIVE LIMIT:

ODOR:

VAPOR PRESSURE:

ODOR THRESHOLD:

VAPOR DENSITY:

PH:

Not Applicable

Not Applicable

Not Applicable

Not Applicable

Not Applicable

RELATIVE DENSITY: 2.10 – 2.32 @ 25°C

MELTING POINT: 325 - 335°C

SOLUBILITY: Insoluble in all common solvents

INITIAL BOILING POINT:
FLASH POINT:

EVAPORATION RATE:
FLAMMABILITY (SOLID, GAS):
PARTITION COEFFICIENT:
AUTO-IGNITION TEMPERATURE:
Not Applicable
Inflammable
Not Applicable
Not Applicable

DECOMPOSITION TEMPERATURE: 400°C

VISCOSITY: Not Applicable

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY: Non-reactive

STABILITY: Decomposes in open air on in nitrogen above 400 °C CONDITIONS TO AVOID: To avoid thermal decomposition, do not overheat.

MATERIALS TO AVOID: Reacts with molten alkali metals and finely divided magnesium and aluminum at

temperatures above 425°C

HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition (at temperatures above 300°C) may form hydrogen

fluoride, hydrofluoric acid, perfluoroisobutylene, and carbonyl fluoride.

POLYMERIZATION: None under normal processing

SECTION 11: TOXICOLOGICAL INFORMATION

LIKELY EXPOSURE ROUTES: Skin contact, inhalation of fumes

CARCINOGENIC EFFECTS: Tetrafluoroethylene is known to the state of California to cause cancer

MUTAGENIC EFFECTS: No data is available on the product itself. REPRODUCTIVE TOXICITY: No data is available on the product itself

NATIONAL TOXICOLOGY PROGRAM REPORT ON CARCINOGENS: LISTED

SECTION 12: ECOLOGICAL INFORMATION

MOBILITY: The product is insoluble and sinks in water.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE FROM RESIDUES / UNUSED PRODUCTS:

Dispose of in accordance with federal, state and local regulations. This product is not a hazardous waste under RCRA, 40 CFR 261 in its original form. If this product is mixed with other materials and/or physically changed, it should be evaluated to assure that the resulting mixture/material does not meet the criteria for listing hazardous waste as specified in 40 CFR 261.11.



CONTAMINATED PACKAGING:

Empty containers should not be used for materials other than the original product. A qualified drum management or solid waste disposal contractor should be used to assure proper handling of empty containers.

SECTION 14: TRANSPORT INFORMATION

U.S. Department of Transportation DOT - Substances From 49 CFR 172.101

DOT Classification:

Air transport ICAO/IATA Status:

DOT Classification:

Not regulated

Not regulated

Not regulated

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

CALIFORNIA – PROP 65 REGULATIONS:

TSCA (TOXIC SUBSTANCE CONTROL ACT):

CIS (CHEMICAL INVENTORY STATUS):

Not Listed

Not Listed

LISTED*1

CAAR (CLEAN AIR ACT REGULATIONS):

ACCIDENTAL RELEASE PREVENTION FLAMMABLE SUBSTANCES:

ACCIDENTAL RELEASE PREVENTION TOXIC SUBSTANCES:

Not Listed
1990 HAZARDOUS AIR POLLUTANTS:

Not Listed
SECTION 302 EHS & TPQ's:

Not Listed
SECTION 302 HAZARDOUS SUBSTANCES:

Not Listed
SECTION 313 EMISSION REPORTING:

TSCA & CERCLA/SARA REGULATIONS:

Not Classified

NOTES:

- This product complies with EU RoHS
- This product does not have components listed in GADSL (Global Automotive Declarable Substance List)

Warning: Substances known to the State of California to cause Cancer, birth defects or other reproductive harm: Tetrafluoroethylene

SECTION 16: OTHER INFORMATION

This data sheet contains changes from the previous version in section(s): None

Additional advice: Consult your supplier if the material is to be used for special applications such as in the food industry or for hygiene, medical or surgical end-use.

Prepared by: Technetics Group Houston

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