

NAME OF PRODUCT: THREAD SEALANT PTFE TAPE
SDS REVISION: 2.0
SDS DATE: 5/4/2018

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: THREAD SEALANT PTFE TAPE
SYNONYMS: UNSINTERED PTFE FILM OR TAPE
PTFE THREAD-SEAL TAPE
RECOMMENDED USE: JOINT SEALANT FOR PIPE THREADS
RESTRICTIONS ON USE: DO NOT USE AS REPLACEMENT FOR COMMERCIAL ELECTRICAL TAPE
MANUFACTURER: TECHNETICS GROUP
DIVISION: TECHNETICS PTFE AND POLYMER SOLUTIONS
ADDRESS: 10633 WEST LITTLE YORK #300, 77041 HOUSTON, TX.
PRODUCT INFORMATION: 713-983-4261
SAFETY INFORMATION: 713-983-4235

SECTION 2: HAZARDS IDENTIFICATION

HAZARD CLASSIFICATION: The components of the product are not classified as hazardous according to OSHA Hazard Communication Standard, 29 CFR 1910.1200, therefore the product is not classified as hazardous. This product is considered an "article" as supplied for its intended and foreseen use
SIGNAL WORD: Not Applicable
SYMBOLS: Not Applicable
PICTOGRAMS: Not Applicable
OTHER HAZARDS: Rubbing or scrapping the product may cause the release of dust particles. Contact with dust may cause mechanical irritation or drying of the skin, Dust contact with the eyes can lead to mechanical irritation. May cause nose, throat, and lung irritation.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

| COMPONENT | CAS-NO | WEIGHT % |
|--------------------------------|-----------|----------|
| Polytetrafluoroethylene (PTFE) | 9002-84-0 | >99% |

SECTION 4: FIRST AID MEASURES

INHALATION: Remove person to fresh air. If symptoms persist, seek medical attention.
SKIN CONTACT: Not likely to cause skin irritation and is not likely to be absorbed through the skin. In the event of contact with released dust particles, wash off with soap and water.
EYE CONTACT: In the event of contact with released dust particles, rinse with plenty of water.
INGESTION: Rinse mouth. If you feel unwell, get medical attention.
MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED: Irritant effects. See Section 11 (Toxicological effects)
PROTECTION OF FIRST-AIDERS: No special precautions are necessary for first-aid responders
NOTES TO PHYSICIAN: No special protective equipment required.
No specific intervention is indicated.

SECTION 5: FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA: Use a firefighting agent suitable for ordinary combustible material such as water or foam to extinguish. However, extinguishing measures must be appropriate to local circumstances and the surrounding environment.

UNSUITABLE EXTINGUISH MEDIA/METHODS: None known

SPECIAL HAZARDS ARISING FROM PRODUCT: Exposure to extreme heat can give rise to thermal decomposition

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS: When firefighting conditions are severe and total thermal decomposition of the product is possible, wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

FURTHER INFORMATION: The product itself is not flammable

SECTION 6: ACCIDENTAL RELEASE MEASURES

SAFEGUARDS (PERSONNEL): Not applicable.

ENVIRONMENTAL PRECAUTIONS: Not applicable

CONTAINMENT METHOD: Collect solid material.

SECTION 7: HANDLING AND STORAGE

SAFE HANDLING PRECAUTIONS: Avoid creating dust and breathing it. Do not breathe thermal decomposition products. Avoid skin contact with hot material. For industrial or professional use only. Thermal decomposition may generate fumes. Do not breathe dust/fume/gas/mist/vapors/spray. An electrostatic charge can potentially build up when processing or conveying product.

SAFE STORAGE CONDITIONS: Keep containers and product in a cool, well-ventilated place. Storage in climate controlled environments is highly recommended.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMIT: If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

| Ingredient | C.A.S. No. | Agency | Limit Type | Additional Comments |
|-------------------------|------------|--------|---|---------------------|
| Polytetrafluoroethylene | 9002-84-0 | CMRG | TWA (as respirable dust): 5 mg/m ³ TWA (as total dust): 10mg/m ³ | |

ENGINEERING CONTROLS: Provide appropriate local exhaust when product is heated. For those situations where the material might be exposed to extreme overheating, ensure appropriate local exhaust ventilation sufficient to maintain levels of thermal decomposition products below their exposure guidelines. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray. If ventilation is not adequate, use respiratory protection equipment.

SKIN/HAND PROTECTION: No special protection is required for short time contact with product. If product will be touched for extended periods of time, the use of nitrile rubber gloves is recommended.

EYE/FACE PROTECTION

Safety glasses are recommended when exposed to fumes/vapors resultant from thermal decomposition

RESPIRATORY PROTECTION:

No respiratory protection necessary during normal use. Wear a respirator or self-contained breathing apparatus (SCBA) when exposed to thermal decomposition products for extended periods of time.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|---------------------------|--|--|-------------------------|
| APPEARANCE: | Wound strips of different widths and lengths | PHYSICAL STATE: | Solid |
| COLOR: | White | ODOR: | Odorless |
| FLASH POINT: | Not applicable | ODOR THRESHOLD: | No data available |
| MELTING POINT: | 336 - 346°C (PTFE) | pH: | Not Applicable |
| FLASH POINT: | No flash point | EVAPORATION RATE: | Not Applicable |
| BOILING POINT: | Not applicable | VAPOR DENSITY: | Not applicable |
| FLAMMABILITY: | Product is not flammable | VAPOR PRESSURE: | Not applicable |
| FLAMMABLE | Not applicable | SPECIFIC GRAVITY: | > 0.4 g/cm ³ |
| LIMITS (LEL/UEL): | | PARTITION COEFFICIENT, n-OCTANOL / WATER | No data available |
| AUTOIGNITION TEMPERATURE: | Not applicable | DECOMPOSITION TEMPERATURE: | No data available |
| SOLUBILITY: | Insoluble in all common solvents | VISCOSITY: | Not applicable |
| VOC CONTENT: | < 0.1% | | |

SECTION 10: STABILITY AND REACTIVITY

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|-------------------------------------|--|
| REACTIVITY: | No decomposition if stored and applied as directed |
| CHEMICAL STABILITY: | The product is chemically stable |
| POSSIBILITY OF HAZARDOUS REACTIONS: | Hazardous polymerization will not occur. Small amounts of hazardous gases and/or particulate matter may be released. These may irritate eyes, nose and throat. Large molten masses may give off hazardous gases. Stable under normal conditions. |
| CONDITIONS TO AVOID: | To avoid thermal decomposition, do not overheat. Abnormally long processing time or high temperatures can produce irritating and toxic fumes. |
| INCOMPATIBLE MATERIALS: | Alkali and alkaline metals, finely divided magnesium and aluminum, potent oxidizers like fluorine (F2). Reactions with metals in powder form occur from 370 degrees C onwards. |
| HAZARDOUS DECOMPOSITION PRODUCTS: | At elevated temperatures (above 350°C.) thermal decomposition products may include Carbonyl Fluoride, Carbon Oxides and Fluorides, Fluorinated compounds, Hydrogen Fluoride, Perfluoroisobutylene (PFIB), Toxic Vapor, Gas, Particulate. If the product is exposed to extreme condition of heat from misuse or equipment failure, toxic decomposition products that include hydrogen fluoride and perfluoroisobutylene can occur. |

SECTION 11: TOXICOLOGICAL INFORMATION

| | |
|------------------------|--|
| CARCINOGENIC EFFECTS: | No data supporting carcinogenic effects in humans for the product or its ingredients. |
| MUTAGENIC EFFECTS: | No data is available on the product itself. Product ingredients showed no mutagenic effects on laboratory animals |
| REPRODUCTIVE TOXICITY: | No data is available on the product itself. Product ingredients showed no reproductive effects on laboratory animals |

The signs and symptoms below are related to the components/ingredients contained in the product. If an ingredient listed on section 2 is not listed hereby, it's because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

| Name | Exposure method | Signs and Symptoms |
|-------------------------|-----------------|--|
| Overall Product | Inhalation | Vapors from heated material may cause irritation of the respiratory system. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain During heating: Polymer Fume Fever: Sign/symptoms may include chest pain or tightness, shortness of breath, cough, malaise, muscle aches, increased heart rate, fever, chills, sweats, nausea and headache. LD50 data not available for the product. |
| | Skin Contact | During heating: Thermal Burns: Signs/symptoms may include intense pain, redness and swelling, and tissue destruction. Mechanical Skin irritation may occur if dust is released: signs/symptoms may include abrasion, redness, pain, and itching. LD50 data not available for the product |
| | Eye Contact | Vapors from heated material may cause eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision. |
| | Ingestion | Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea |
| Polytetrafluoroethylene | Skin Contact | No significant irritation or sensitization in humans or animals LD50 estimated to be > 5,000 mg/kg |
| | Ingestion | LD50 estimated to be > 5,000 mg/kg |

SECTION 12: ECOLOGICAL INFORMATION

The product itself is not considered a hazardous substance or mixture.

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.

SECTION 14: TRANSPORT INFORMATION

Not regulated in transportation by DOT/IMO/IATA.

SECTION 15: REGULATORY INFORMATION

US FEDERAL REGULATIONS:

311/312 Hazard Categories:

Fire Hazard: No Pressure Hazard: No Reactivity Hazard: No Immediate Hazard: No Delayed Hazard: No

CHEMICAL INVENTORIES: This product is an article as defined by TSCA regulations and is exempt from TSCA inventory listing requirements.

This product complies with EU RoHS and REACH regulations

This product does not have components listed in GADSL (Global Automotive Declarable Substance List)

SECTION 16: OTHER INFORMATION

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

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