

SAFETY DATA SHEET

TOMBO No. 9082

Nafion® seal Tape (PTFE Thread Seal Tape)

1. IDENTIFICATION OF THE HAZARDOUS CHEMICAL AND OF THE SUPPLIER

Product name Nafion Seal Tape
Synonyms PTFE Thread Seal Tape

Manufacturer or Supplier's details Headquarters

Company SEAL TAPE, INC. IMPORTER

Address P O BOX 2683
PALOS VERDES, CA 90274,

Emergency telephone number 800-533-5646

2. HAZARD IDENTIFICATION

GHS Classification Not Applicable
GHS Label Element NotApplicable NotApplicable
Hazard pictograms Not Applicable
Signal word Not Applicable
Hazard statements Nonhazardous under recommended condition of handling.
Caution!! The fumes produced when heated at high temperature are toxic. Exposure to thermodegradation products may cause influenza-like symptoms.

Precautionary statements Do not use over service temperature (260°(c)

Other hazards which do not result in classification

No information available.

3. COMPOSITION & INFORMATION OF THE INGREDIENTS OF THE HAZARDOUS CHEMICAL

Substance / Mixture

Chemical Name	CAS-No	Wt%	TLV	PEL
Polytetrafluoroethylene (PTFE)	9002-84-0	90-100	not estab	not estab

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4. FIRST-AID MEASURES

Inhalation: Not likely to be inhaled due to physical form. For processing fume inhalation irritation, leave contaminated area and breathe fresh air. If coughing, difficult breathing or any other symptoms develop, get medical attention.

Ingestion: Not a likely route of exposure

Skin contact: If contact with molten product occurs, treat as for thermal burn. Do not try to peel molten polymer from the skin. Get medical attention promptly.

Eye contact: If contact with molten product occurs, remove contact lenses at once. Immediately flush eyes with large quantities of water for at least 15 minutes. Get medical attention.

Notes to Physician: Treat symptomatically.

5. FIRE FIGHTING MEASURES

Flammable properties	Non-flammable
Suitable extinguishing media	Use that which is appropriate for the surrounding fire.
Unsuitable extinguishing media	Nil
Unusual Fire & Explosion Hazard	Fluorocarbon polymers are non-flammable in air and will not propagate flame. However under high temperature they can yield toxic particles, fumes and gases. In case of fire, escape to the windward.
Special protective equipment for firefighters	Persons exposed to thermal decomposition products of this material should wear self-contained breathing apparatus, full protective equipment, and also gloves made of chloroprene rubber.

6. ACCIDENTAL RELEASE MEASURE

Personal precautions, protective equipment & emergency procedure	Not Applicable
Environmental precautions	Not Applicable
Methods & materials for containment & cleaning up	Not Applicable

7. HANDLING & STORAGE

Precautions for safe handling	Do not use over service temperature {260°}. In case Product is used over 260°, ventilate well and do not inhale thermodegradation products
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8. Conditions for safe storage Store in a cool, dry area away from heat and source of ignition

EXPOSURE CONTROL AND PERSONAL PROTECTION

Airborne Exposure Limit Not estab. (see section 2 Composition/Information on Ingredients)

Engineering controls Not required under recommended condition of handling. When used above 260°C, toxic fumes will be produced from thermal degradation and/or decomposition of fluorocarbon polymers and therefore proper ventilation equipment shall be installed and used.

Personal Protective Equipment

Eye/Face Protection Not required under recommended condition of handling
Skin Protection Not required under recommended condition of handling
Respiratory Protection Not required under recommended condition of handling

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Solid
Colour White, pink, blue, yellow
Odour No odor
Odour Threshold No data available
pH Not applicable
Melting/Freezing point 327°C
Boiling point/range No data available
Flash point No data available
Evaporation rate Not applicable
Flammability (solid/gas) No data available
Upper explosion limit No data available
Lower explosion limit No data available
Vapour pressure Not applicable
Relative vapour density Not applicable
Relative density Not applicable
Density Not applicable
Solubility(ies) No data available

Partition coefficient: n-octanol/ water	No data available
Auto-ignition temperature	No data available
Thermal decomposition	No data available
Viscosity	No data available

10. STABILITY AND REACTIVITY

Reactivity Chemical stability	No data available
Possibility of hazardous reaction	Nonhazardous under recommended condition of handling No data available
Condition to avoid	Do not use for gas sealing
Incompatible material	May react with molten alkali such as metal sodium, and fluorine at high temperature and pressure
Hazardous decomposition products	Above 260°C this product thermally degrades at a rate dependent on the temperature, releasing toxic materials

11. TOXICOLOGY INFORMATION

Acute and chronic health hazard	No acute and chronic hazard under recommended conditions of storage and handling.
Inhalation	Unlikely to be hazardous by inhalation unless heated. The fumes produced when heated at high temperature are toxic. Exposure to thermodegradation products may cause influenza-like symptoms
Eye contact	No hazardous under recommended condition of handling
Skin contact	No hazardous under recommended condition of handling. Molten material can cause severe burns
Ingestion	Not identified
Special Hazard Information	Unheated fluorocarbon polymer product is inert, and there are no known instances of health hazard, when handling the unheated product. When heated at high temperature, it will thermally degrade, decompose and produce toxic fumes. Inhalation of such fumes will cause "Polymer Fume Fever", which has symptoms very similar to influenza and can include headache, cough, fever, chills, chest discomfort. The symptoms do not occur until several hours after exposure and may pass within 36 to 48 hours, even in absence of treatment.

Carcinogenicity Polytetrafluoroethylene is classified as IARC GROUP 3 (Not classifiable as its carcinogenicity to humans)

12. ECOLOGICAL INFORMATION

Ecological testing has not been conducted on this product.

13. DISPOSAL INFORMATION

Do not incinerate.
Comply with all federal, state and local regulations.

14. TRANSPORTATION INFORMATION

Follow all regulation in your country. International Dangerous Goods Information;
IMO : Not regulated as dangerous goods according to the IMDG Code
ICA : Not regulated as dangerous goods according to the IACO Technical Instructions

15. REGULATORY INFORMATION

Follow all regulations in your country

16. OTHER INFORMATION

SDS preparation date 08.07.15
Date of revision 08.07.20

References

- 1 ACGIH 2009 Threshold Limit Value for chemical Substances and Physical Agents (2009)
- 2 Guide to Occupational Exposure Values 2009 (2009)
- 3 PTFE FLUOROCARBON RESIN, ALL GRADES LISTED ON PL0016126" MSDS, Canada Centre of Occupational Health and Safety
- 4 Guide to the Safe Handling of Fluoropolymer Resin 3rd Edition :The Society of the Plastic Industry, Inc. (1998)