



INDUSTRIES 3R

# MATERIAL SAFETY DATA SHEET

## IDENTITY

Part Number: **3R 812**  
 Identity: Natural Teflon Sheet (Virgin PTFE)  
 Description: PTFE film sheet

## SUPPLIER

Industries 3R inc.  
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## INGREDIENTS AND HAZARDS

<u>INGREDIENTS AND HAZARDS</u>	<u>#CAS</u>	<u>PEL/TVL - SOURCE</u>
Polytetrafluoroethylene (PTFE)	009002-84-0	10mg/ch (inert dust)

## PHYSICAL DATA

Boiling/ Melting point @ 760 mm Hg:	608-644 F (320-340 C) mp (base resin)
pH:	Not available
Vapor Pressure mm Hg @ 20 C:	Not available
Vapor Density (Air= 1):	Not available
Percent Volatile by weight (%):	Not available
Specific gravity or bulk density:	2.1-2.3
Solubility in water:	Insoluble
Evaporation rate:	Not applicable
Appearance:	Dry powder
Odor:	None

## FIRE AND EXPLOSION DATA

Flash Point F (Test Method):	Does not flash
Auto ignition temperature:	Not applicable
Flammability limits in air (% V):	Non-flammable
Extinguishing media:	CO2, FOAM, DRY CHEMICAL OR WATER SPRAY. Treat as a Class B fire.
Special fire fighting procedures:	Extinguishing media should be suited for the surrounding fire. Self contained breathing apparatus with full facepiece and protective clothing recommended.
Unusual fire and explosion hazards:	Above 750 deg. F (399 deg. C), fluoropolymers may undergo degradation to compounds which may be toxic and produce irritation to the skin. PTFE needs atmosphere of 95% oxygen to burn.

## REACTIVITY DATA

Stability:	Stable and inert under normal conditions. Begins to decompose very slowly at 500 deg. F (260 deg. C) Decomposition increases rapidly above 750 deg. F (399 deg. C).
Conditions to avoid:	Temperatures above 750 deg. F (399 deg. C)
Chemical incompatibility:	Molten alkali metals, interhalogen compounds.
Hazardous decomposition products:	Toxic gases of hydrogen fluoride and ethylene, hexafluoropropylene, perfluoroisobutylene and carbonyl fluoride.

Hazardous polymerization: Will not occur.  
Corrosive to metal: No.  
Oxidizer: No.

### **HEALTH HAZARD INFORMATION**

Skin contact: May cause mechanical irritation of skin. Molten material has the potential to cause thermal burns.  
Eye contact: May cause mechanical irritation to eyes. Polymer particle may act as a foreign body.  
Inhalation: No specific information available. Gases from thermal decomposition (above 480 deg. F) can cause "polymer fume fever" which has flu-like symptoms.  
Ingestion: If a significant quantity has been swallowed, give two glasses of water to dilute. Consult a physician.

Chronic Effects of Overexposure: No specific information available.

Toxicological test data: No specific information available.

Signs and symptoms of exposure: No specific information available. Thermal decomposition may evolve fumes which can cause "polymer fume fever", which has flu-like symptoms.

Carcinogenicity information: Not applicable.

### **ECOLOGICAL INFORMATION**

Environmental toxicity data: No information available.

Spill or leak procedures: Sweep up to avoid slipping hazard.

Hazardous substance superfund: This product does not contain any toxic chemicals subject to the reporting requirements of SARA Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and of 40 CFR 372.

Hazardous waste 40CFR261: This product as shipped is not a RCRA hazardous waste under present EPA regulations.

### **DISPOSAL PROCEDURES**

Disposal methods must conform to federal, state and local regulations.

### **SPECIAL PROTECTION**

Respiratory Protection: For temperatures below 500 deg. F (260 deg. C) use a MSHA/NIOSH approved respirator for dusts. For temperatures above 500 deg. F (260 deg. C) use a MSHA/NIOSH approved positive pressure supplied air respirator.

Ventilation: Provide local exhaust where polymer is heated above 500 deg. F (260 deg. C).

Protective clothing: Use gloves when handling hot polymer. Use good personal hygiene. Showering and changing into street clothing after work is desirable.

Eye protection: Safety glasses recommended.

Other precautions: Precautions to be taken in handling and storing: Store in a cool dry place. Do not exceed recommended process temperatures to minimize release of decomposition products. Do not smoke in areas where fluoropolymer is handled. Do not bring tobacco products into work area. Fluoropolymer on tobacco goods may cause adverse health effects by inhalation of the decomposition products. Cleaning of process equipment by burning is not recommended due to the risk of generating decomposition products.

**EMERGENCY AND FIRST AID PROCEDURES**

- Skin: Wash with soap and water. For contact with molten product, flush skin immediately with large amounts of cold water. Thermal burns require immediate medical attention.
- Eyes: Flush eyes with tepid water for 15 min. Eyelids should be held away from eyeball to ensure thorough rinsing. Consult a physician.
- Ingestion: Not a probable route of exposure. If gastrointestinal symptoms develop, consult a physician.
- Inhalation: Remove victim to fresh air. If cough or influenza-like symptoms develop, consult a physician for treatment.

**DISCLAIMER**

The information, details, dimensions and values indicated are to our best knowledge. We recommend testing according to local conditions. The specifications are subject to change without notice.