



Material Safety Data Sheet

Feb.19th,2021

1.Chemical Product and Company Identificaiton

Product name: AIGI 184J—Expanded PTFE Gasket
Supplier: AIGI Environmental Incorporated
Address: NO.81 Suyuan Avenue, Nanjing, China
Post Code: 211100
Emergency telephone number (24 Hours) : 800-8289829
Website: www.aigienviroental.com

Application: It can be used in media other than molten alkali metals, high-temperature fluorine elements and some aromatic compounds.

2.Composition/Information on Ingredients

This product is made of polytetrafluoroethylene (PTFE)。
Hazardous Elements: PTFE CAS NO.: 9002-84-0

3.Hazard Classification Description

Hazard Classification: This product is not hazardous and non-toxic at atmospheric temperature.
When the temperature is higher than 260 °C (500F), polytetrafluoroethylene (PTFE) may emit toxic decomposition products。
Explosion Hazard: No explosion hazard。

4.First Aid Measures

Inhalation: If you accidentally encounter toxic smoke from pyrolysis after high temperature, please leave the site quickly and go to a place with fresh air. If you feel unwell, please see a doctor.
Skin Contact: Not applicable.
Eye Contact: Not applicable.
Ingestion: Not applicable.

5.Firefighting Measures

Extinguishing Method: Use a fire extinguisher suitable for the surrounding fire.
Hazard Characteristics: Toxic gases may be emitted when the temperature exceeds 260 °C (500 ° f). When there is an open fire, the product will burn in oxygen with a concentration greater than 95%.
Fire Protection Instructions: Firefighters are advised to wear self-contained breathing apparatus to prevent dangerous decomposition products.
Fire Rating: A

6.Leakage Emergency Treatment

Personal precautions: Refer to control measures and personal protective measures in Section 8.
Environmental precautions: No special requirements.
Methods for cleaning up: No special requirements,please refer to section 13 for treatment suggestions.

7.Handling and Storage

Handling Precautions: Keep away from fire - no smoking! Do not touch open flames and hot surfaces, which may release toxic substances. In case of thermal decomposition, avoid inhalation of smoke. During operation, please follow the conventional safety and protective measures. After use, please wash your hands. Before eating, please take off contaminated clothes and protective equipment.
Storage: Store in a cool, dry place.

8.Exposure Controls/Personal Protection

Substance: Polytetrafluoroethylene (PTFE) 。



Respiratory System Protection: No special requirements.
 Ventilation System: No special requirements. If used at high temperatures, use local exhaust.
 Protective Gloves: No special requirements.
 Eye Protection: No special requirements.

9. Physical and Chemical Properties

Appearance:	Solid	Vapor Pressure:	Not applicable
Colour:	White	PH value:	Not applicable
Boiling Point:	Not applicable	Density:	Not applicable
Melting Point:	Not applicable	Unit Volume:	Not applicable
Flash Point:	Not applicable	Coefficient (water / oil):	Not applicable
Viscosity:	Not applicable	Vapor Density:	Not applicable
Flammability:	Not applicable	Evaporation Rate:	Not applicable
Explosion Limit:	No explosion hazard	Water solubility:	Not applicable
Odour:	None	Other:	Not applicable

10. Stability and Reactivity

Stability: It is stable under normal conditions.
 Hazardous Reactions: Not applicable.
 Hazardous Decomposition Products: Toxic gases such as carbon monoxide, carbon dioxide, trace hydrofluoric products and perfluorocarbon olefins may evolve when the temperature exceeds 260 °C (500 f).
 Conditions to Avoid: High temperature conditions exceeding 260 °C (500F).
 Materials to Aviod: Fluorine, chlorine trifluoride and related compounds, molten alkali metals.

11. Toxicological Information

Main Exposure Routes under Normal Use: Inhalation (perfluorocarbon decomposition smoke) and skin contact.
 Acute Toxicity: PTFE is non-toxic atatmospheric temperature. However, when the temperature exceeds 260 °C (500F), a small amount of toxic smoke will be generated due to the decomposition of PTFE. Inhalation of these decomposition products may lead to temporary influenza symptoms.
 Chronic Effects: No relevant test data.
 Other Information: This product does not contain carcinogens.

12. Ecological Information

Mobility in Soil : Solid, insoluble in water. Determine the mobility of the product according to its physical and chemical properties (see Section 9).
 Biodegradability: PTFE material has no chemical reaction and cannot be biodegradable.

13. Disposal Considerations

Waste Property: Non hazardous waste。
 Waste Disposal Method : Clean with mechanical equipment and dispose in accordance with relevant laws and regulations to prevent entering the drainage system.

14. Transport Information

UN No. : Not applicable.
 Land Transportation 《Name List of Hazardous Chemicals (GB12268)》 : Unregulated.
 Sea Transportation (IMDG) : Unregulated.
 Air Transportation (IATA) : Unregulated.
 Marine Pollutants: None。

15. Regulatory Information

《Classification and marking of common hazardous chemicals (GB13690)》 : This product is not hazardous.
 《Regulations on Preparation of chemical safety labels (GB15258)》 : Unregulated.



《 Law of the People's Republic of China on the Prevention and Control of Solid Waste Pollution 》 :See Disposal Considerations (Section 13).

16. Other Information

Revision date: 2021.2.19

The above data are experimental data, and the specific application shall be determined according to the customer's working conditions.