

IDS – Information Data Sheet - according to the Regulation EU 2015/830 (EU 1907/2006)

Product name: PLANIFLON PT2105

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1. PRODUCT AND COMPANY IDENTIFICATION

Product Information: PTFE seal for stem and seat of industrial valves

Manufacturer Details: CARRARA SpA

via Provinciale, 1/E

25030 Adro - BS - Italy

Phone Nr. 030/7451129-7151121 Fax 030/7453238-7451130

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization:

PTFE Polymer free from substances considered hazardous to health

3. HAZARD IDENTIFICATION

Solid PTFE polymer has never shown risks to human health and the environment. Risks arise when the product is exposed to temperatures exceeding 400°C, beyond which the emission of toxic compounds (HF and COF₂) begins, which are not immediately visible but are extremely corrosive and can cause severe burns.

4. FIRST AID MEASURES

Inhalation: In case of inhalation of thermal decomposition products, move the affected person to fresh air, keep them calm, and seek medical attention. Skin contact: If skin irritation occurs, wash with water and soap; if irritation persists, seek medical advice. Eye contact: Flush eyes with plenty of water for at least 15 minutes. Seek medical attention if irritation persists. Ingestion: Not applicable. Protection for first aiders: No special precautions required.

5. FIRE-FIGHTING MEASURES

Fire extinguishing measures:

- Water
- Foam
- Extinguishing powder
- Carbon dioxide

The risks in case of fire are associated with combustion products:

- Carbon monoxide and dioxide (CO and CO₂)
- Hydrofluoric acid (HF)
- Carbonyl fluoride
- Tetrafluoroethylene
- Hexafluoropropylene
- Perfluoroisobutylene

Special protective equipment for firefighting operations: It is mandatory, for extinguishing, rescue, and evacuation operations in the presence of combustion and distillation gases, to use a self-contained breathing apparatus for safe protection of the respiratory tract.

6. ACCIDENTAL RELEASE MEASURES

Cleaning/Collection Methods: Collect with mechanical equipment. Dispose of in accordance with local regulations and laws.

7. HANDLING AND STORAGE

Handling: Avoid temperatures exceeding the decomposition temperature ($T > 150^{\circ}\text{C}$). Storage: Keep away from ignition sources.

8. EXPOSURE LIMITATION/INDIVIDUAL PROTECTION

Individual protection: General protection measures: Avoid breathing vapors and dust potentially generated. No smoking in storage or product use areas.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

- Form: Compact braided solid, waxy to the touch
- Color: White
- Odor: Odorless

Relevant safety data: Changes in physical state: Crystalline melting point from 320 to 345 °C Method: ASTM D 4895 Flammability point: Not applicable Ignition temperature: $> 500^{\circ}\text{C}$ Lower explosion limit: Not applicable Vapor pressure: $< 5\text{ mm}$ Density: 1.6 g/cm³ Water solubility: Insoluble pH value: Not applicable Viscosity: Not applicable

10. STABILITY AND REACTIVITY

Thermal decomposition: $T > 400^{\circ}\text{C}$ - Method: thermogravimetry Hazardous reactions with: strong oxidants, fused alkali metals, and partial reactivity with some interhalogen compounds Hazardous decomposition products: Hydrofluoric acid, Carbonyl fluoride, Tetrafluoropropylene, Hexafluoropropylene, and Perfluoroisobutylene

11. TOXICOLOGICAL INFORMATION (Observations)

According to multi-year experiments, no harmful effects are known if the product is used correctly.

12. ECOLOGICAL INFORMATION (Observations)

The product is not water-soluble. The material has no harmful effects on the environment.

13. DISPOSAL INFORMATION

In compliance with current regulations and after consulting the disposer and competent authorities, the product can be disposed of in a landfill or incinerated with urban waste. Hydrofluoric acid must be eliminated by alkaline washing of combustion gases.

14. TRANSPORT INFORMATION

- Land Transport ADR/RID: NON-DANGEROUS
- GOODS River Transport ADNR: NON-DANGEROUS
- GOODS Maritime Transport IMDG/UN: NON-DANGEROUS
- GOODS Air Transport ICAO/IATA-dgr: NON-DANGEROUS
- GOODS Postal Shipment: Allowed

15. REGULATIONS

The product is not subject to REACH, RoHS directives, and is not subject to EU RAPEX system restrictions.

Classification Type: None Labeling: No special marking required Classification: Not required Hazard Symbol: Not required Risk Phrases: Not required Safety Phrases: Not required

16. ADDITIONAL INFORMATION

This information is based on our current level of knowledge and that provided by the manufacturers of the components of our products. Its purpose is to describe our product from a safety perspective and does not aim to guarantee specific properties of the product itself.