

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

Indications on the product :

Compression Packing type Carrara PT5504S.

Braided compression packing made by PTFE. The product is intended for use as sealing for industrial pumps, mixers and valves.

Manufacturer

CARRARA Spa

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Warning: in any emergency case contact the nearest first aid center

2. HAZARDS IDENTIFICATION

- This product does not meet the criteria for classification in any hazard class according to regulation EC No 1272/2008 on classification, labelling and packaging of substances.
- The article, made by solid PTFE polymer, has never shown risks for the human health and for the environment at ambient temperature.
- If the article is at temperatures higher than 260°C decomposition products (CO₂, CO, HF and COF₂) may be emitted. The melting point is 327°C. Very intensive thermal decomposition starts at 415 °C. Avoid smoking when handling PTFE products.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients	% Wt.	CAS No.	EC / List no.:
None	-	-	-
Non-Hazardous Ingredients	% Wt.	CAS No.	EC / List no.:
PTFE	100	9002-84-0	618-337-2

4. FIRST AID MEASURES

- further to inhalation of decomposition products, bring the injured person in the open air and keep him calm and request intervention of a doctor
- **Indications for the doctor** : symptoms, for inhalation of decomposition products the following symptoms can occur : high skin temperature, breathing insufficiency, cough, shivers

Interventions in case of contact with the compounds of the thermal decomposition:

Contact with the eyes

- rinse immediately with running water for at least 15 minutes until intervention of the doctor
- request prompt intervention of a doctor

Contact with the skin

- wash immediately with water and soap carefully rinsing between the folds of the skin and under the nails
- request prompt intervention of a doctor

Inhalation

- bring the subject in the open air and if possible give oxygen
- if breathlessness occurs effect artificial respiration, preferably mouth to mouth
- request prompt intervention of a doctor and keep under observation for at least 48 hours

5. FIREFIGHTING MEASURES

Suitable means for extinction : - Water

- Foam
- Extinguishing powder
- Carbon dioxide

The risks in case of fire are connected to the combustion products which are :

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

Particular protection equipment for the antfire operations :

- it is peremptory, for the extinguishing, rescue and clearing operations in presence of combustion and distillation gases, to use a breathing apparatus for secure protection of the respiratory tract

Other indications :

the fluoropolymers can increase the relative toxicity of the combustion gases

6. ACCIDENTAL RELEASE MEASURES

- Utilize exposure controls and personal protection equipment as specified in section 8
- About environmental protection no special precautions are required
- Refer to section 13 for disposal advice

7. HANDLING AND STORAGE

Handling

- Do not smoke handling the product and adopt usual warehousing individual protection measures (gloves).

Storage

- Keep away from ignition sources in dry area. Exposure to humidity, light or heat may reduce shelf life.

8. EXPOSURE CONTROL / INDIVIDUAL PROTECTION

Individual protection

- Adopt usual individual protection measures (gloves) for handling. In any case do not smoke when in contact with PTFE material. In case of fire event hazardous vapours may be generated: take care do not breathe them and in case of involvement in the fire extinguishment operations adopt the right respiratory protection.

Control parameters – Occupational exposure limit values

- PTFE
 - OSHA
 - PEL for total dust 15 mg/m³
 - PEL for respirable fraction 5 mg/m³
 - TLV-TWA for Inhalable particulate 10 mg/m³
 - TLV-TWA for respirable particulate 3 mg/m³

9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical state – solid
- Colour - White
- Relative density – 1.60 g/cm³
- Solubility in water – insoluble
- Melting Point – 327°C
- Flash point – not applicable
- Upper/lower flammability or explosive limits – not applicable
- Autoignition temperature – not determined
- Decomposition temperature – not determined
- Flammability (solid, gas) – not applicable
- Explosive properties – not applicable

10. STABILITY AND REACTIVITY

- Reactivity
 - No dangerous reaction known under conditions of normal use. Avoid the extreme heat above 260°C.
- Incompatible materials
 - Fluorine, Chlorine Trifluoride and related compounds, molten alkali metal
- Hazardous decomposition products
 - Carbon monoxide, Carbon dioxide, Perfluorcarbon olefins and other toxic fumes may be generated above 260°C.

11. TOXICOLOGICAL INFORMATION

- The product contains no substances classified as hazardous to health in concentrations which should be taken into account. In usual condition of handling, storage and use of the product for intended purposes harmful effects for human are not known. Only the thermal decomposition may generate toxic gases hazardous if breathed.

12. ECOLOGICAL INFORMATION

- The ecotoxicology has not been determined specifically for the product but is based on the available information of the single components. The product contains no substances classified as hazardous to the environment in concentrations which should be taken into account and no adverse effects on aquatic and soil organisms are expected in case of accidental release. The product is not water-soluble.

13. DISPOSAL CONSIDERATIONS

- The unused product is not classified as a hazardous waste according to 2008/98/EC. Anyway it is in charge to the user check the local regulations and comply with them.

14. TRANSPORT INFORMATION		
UN number	ADR/RID/AND/IMDG/ICAO/IATA DRG 60 th 2019	Not Applicable
	TDG	Not Applicable
	US DOT	Not Applicable
UN proper shipping name	ADR/RID/AND/IMDG/ICAO/IATA DRG 60 th 2019	Non-Hazardous, Non Regulated
	TDG	Non-Hazardous, Non Regulated
	US DOT	Non-Hazardous, Non Regulated
Transport hazard class(es)	ADR/RID/AND/IMDG/ICAO/IATA DRG 60 th 2019	Not Applicable
	TDG	Not Applicable
	US DOT	Not Applicable
Packing Group	ADR/RID/AND/IMDG/ICAO/IATA DRG 60 th 2019	Not Applicable
	TDG	Not Applicable
	US DOT	Not Applicable
Environmental Hazard		Not Applicable
Special precaution for user		Not Applicable

15. REGULATORY INFORMATION

- EU REGULATIONS**
 - The product does not include harmful substances classified by the directive REACH, RoHS and is not under restrictions of the system EU RAPEX
 - Authorisations under Title VII: Not Applicable
 - Restrictions under Title VIII: None
- OTHER REGULATION**
 - None

16. OTHER INFORMATION

The current information provided is based on the best knowledge on the date reported. In addition, we inform the user that risks may occur in the case of use of the product for purposes other than those intended. This condition, use of the product for purposes other than those intended, has to be avoid.