

Safety data Sheet

 Product : **Braided Compression Packing – R4804**
1. INDICATIONS ON THE PRODUCT

The braided packing R4804 is composed by Ramie yarns bonded with PTFE's emulsion and inert lubricant silicon free.

CAS-No.	Unassigned
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2. INFORMATION ON THE INGREDIENTS

The product contains the following hazardous materials:

Chemical name	CAS-No
Ramie yarn	Unassigned
PTFE	9002 – 84 - 0
Inert lubricant	Unassigned

3. HAZARDS IDENTIFICATION

The Ramie yarns, solid PTFE polymer and inert lubricant have not shown risks for the human health nor for the environment. Risks come themselves when the product is brought to temperature above 400°C which starts the emission of toxic compounds (HF and COF₂) which are not immediately visible but are extremely corrosive and can cause serious burns

4. FIRST AID MEASURES

Interventions in case of contact with the compounds coming from thermal decomposition above 400°C

- Inhalation

Further to inhalation of decomposition products, bring the injured person in the open air and and request doctor's intervention (**Indications for the doctor:** the following symptoms can occur : high body temperature, insufficient breathing, cough, shivers; keep under observation for at least 48 hours).

- Skin

Wash immediately with water and soap and request doctor's intervention

- Eyes

Flush eyes with water and and request doctor's intervention.

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The product are non-combustible and do not pose fire hazard.

However, packaging material may burn.

- Suitable extinguishing media

Water, foam, carbon dioxide or powder

- Extinguishing media which must not be used for safety reasons

Not know

- Combustion products

Carbon dioxide, Carbon monoxide, Hydrogen Fluoride, Carbonyl Fluoride traces of other unknown combined gases. The fluoropolymers increase the relative toxicity of the combustion gases

- Special protective equipment for fire-fighters

Wear self-contained breathing apparatus. Wear full protective equipment.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions:

No special precaution are required, but local regulation may be apply

- Environment Precautions

No special precaution are required, but local regulation may be apply

7. HANDLING AND WAREHOUSING

- Handling

1. Unpack material at application site to avoid unnecessary handling of product
2. Keep work areas clean. Scrap material and debris dispose in suitable containers
3. It's recommended to spray with water before sweeping or use vacuum cleaner
4. Ensure good ventilation

- Storage

1. Before use keep material in original packaging

Store material in areas where it is protected against adverse conditions including precipitation and UV radiation

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Local regulations may be apply. Do not smoke in presence of PTFE product.

1. Engineering measures

In work areas ensure good ventilation

2. Control parameters

Local regulations may apply for fibre dust particle concentration per ml of workplace air

3. Respiratory protection

In the even of heavy dust development and in confined spaces, use disposable face-masks

4. Hand protection

Gloves are recommended only.

5. Eye protection

With heavy dust development , wear safety goggles.

6. Sking protection

Wear just the regular work clothing it is recommended to wash and change cloth once the working time is finished

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Appearance: - Shape : compact, cerous at touch
- Colour : with-red
- Odour : practically odourless

Important data for the safety

Modifications of the physical state : T > 150°C

- Flammability point : not applicable
- Self Ignition Temperature (ASTM D4895): > 500°C
- Density: 1,4 g/cm³
- Solubility in water : insoluble
- pH value : not applicable

10. STABILITY AND REACTIVITY

- The product is resistant to chemicals and heat
- Thermal decomposition: T > 150°C - Method : thermogravimetry
- Dangerous reactions with : strong oxidants, melted alkaline metals and partial reactivity with a few interhalogen compounds
- Dangerous decomposition products : CO, CO₂, Hydrogen Fluoride, Carbonyl fluoride and trace of other gases

11. TOXICOLOGICAL INFORMATION**1. INGESTION**

Harmless.

2. EYE CONTACT

May cause eye irritation.

3. SKIN CONTACT

Does not irritate human skin.

4. INHALATION

Inhalation of fumes from overheating (above 300 deg C/572 deg F) PTFE (Polytetrafluoroethylene) may cause polymer fume fever, a temporary flu like illness with fever, chills, and sometimes cough, of approximately 24 hours duration.

Trace amounts of carbonyl fluoride and hydrogen fluoride may also be evolved when PTFE is overheated or burned above 400 deg C (750 deg F).

Inhalation of low concentrations of HYDROGEN FLUORIDE can initially include symptoms of choking, coughing, and severe eye, nose, and throat irritation. This is possibly followed after a symptomless period of one to two days by fever, chills, difficulty in breathing, cyanosis, and pulmonary edema. Acute or chronic overexposure to HF can injure the liver and kidneys.

Inhalation, ingestion, or skin or eye contact with CARBONYL FLUORIDE may initially include: skin irritation with discomfort or rash; eye corrosion with corneal or conjunctival ulceration; irritation of the upper respiratory passages; or temporary lung irritation effect with cough, discomfort, difficulty in breathing, or shortness of breath. Individuals with preexisting diseases of the lungs may have increased susceptibility to the toxicity of excessive exposures from thermal decomposition products.

CARCINOGENICITY NTP: Not listed IARC: Not listed OSHA: Not listed

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12. ECOLOGICAL INFORMATION Stable product with no know adverse environmental effect
13. DISPOSAL CONSIDERATION 1. Uncontaminated product/material If the material cannot be used or recycled, it can be disposed as a solid waste or incenerated in a suitable installation, subject to local regulations. 2. Contaminated product the contaminated or empty containers must be disposed similarly as their content
14. TRANSPORT INFORMATION 1. Declaration about the surface, sea and air transport The product is not dangerous substance in terms of national and international transport guidelines 2. Other information Keep in dry. Store separately from food.
15. REGULATORY INFORMATION 1. EU CLASSIFICATION The product does not comply with either chemical or harmful substances classification, it is not the subject of the directive REACH, RoHS and is not boubded by the restrictions of the system EU RAPEX. (Bote: the marking of materials is discussed with local authorities) 2. OTHER REGULATION No special marking is required by EU standard
16. OTHER INFORMATION 1. Health aspects Safety in use of mineral and Synthetic Fibres, Occupational Safety and Health Series, international Labour Office (ILO). 2. Good working practice Local regulations may be apply 3. Declaration This material Safety Sheet contains the information which are necessary for ensuring the safety of work, health and environment protection. The information given herein is the best available on the date of its issue and comply with the local legal regulations. However, it does not constitute a contractual description of suitability and usability of the product for a particular application. This information is furnished as a guide only and upon the condition that the person receiving it shall make tests to determine the accuracy and suitability of these data for his/her own particular way of application.