

Safety Information

0. GENERAL INFORMATION

This product is a product as defined in article 3.3 of regulation (EG) No. 1907/2006 (REACH).

A safety data sheet does not need to be supplied for these products, as this is not required according Article 31 for products but only for dangerous substances and preparations.

KWO Dichtungstechnik GmbH provides this safety information for a risk assessment according §6, para. 2, German Ordinance on Hazardous Substances.

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY / UNDERTAKING

Identification of the preparation:

KWO ePTFE sealing materials:

TYPE:

KWO Universal Tape F Premium, KWO Universal Tape F,
 KWO Universal Tape R, KWO Universal Tape HD,
 KWO CellFlon Tape, KWO CellFlon Tape R, KWO CellFlon Tape CL,
 KWO CellFlon Sheet Blue, KWO CellFlon Sheet Brown,
 KWO CellFlon Sheet White,
 KWO MultiTex Sheet, KWO MultiTex Sheet Rigid,
 KWO MultiTex Ring, KWO MultiTex Ring DK,
 KWO MultiTex Tape, KWO MultiTex Tape DK

Supplier:

KWO Dichtungstechnik GmbH
 Am Eschengrund 3
 83135 Schechen, Germany

Phone number:

+49 08039 90254-0

2. HAZARDS IDENTIFICATION

Most important hazards:

None

Specific hazards:

Thermal decomposition produces hazardous vapours which can causes so-called polymer fever with flu-like symptoms.

3. COMPSITION / INFORMATION ON INGREDIENTS

Chemical nature of the preparation:

Polytetrafluoroethylene (PTFE)

4. FIRST AID MEASURES

Inhalation:

Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. Consult a physician after significant exposure.

Skin contact:

Cool skin rapidly with cold water after contact with molten polymer. Do not peel polymer from the skin. Obtain medical attention.

Eye contact:

Rinse with water.

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<p>5. FIRE-FIGHTING MEASURES</p>	
<p>Suitable extinguishing media:</p> <p>Special protective equipment for fire-fighters:</p>	<p>Water, carbon dioxide (CO₂), foam, dry powder</p> <p>In the event of fire, wear a self-contained breathing apparatus and a complete suit protecting against chemicals. Wear neoprene gloves when handling refuse from a fire involving PTFE materials.</p>
<p>6. ACCIDENTAL RELEASE MEASURES</p>	
<p>Personal protections:</p> <p>Methods for cleaning up:</p>	<p>None</p> <p>Sweep-up to prevent slipping hazard.</p>
<p>7. HANDLING AND STORAGE</p>	
<p>Handling</p>	
<p>Technical measures / precautions:</p>	<p>None under normal processing. The solid polymer can be combusted only with difficult.</p>
<p>Precautions:</p>	<p>Provide appropriate exhaust ventilation at processing equipment when heated > 300 °C.</p>
<p>Safety handling advice:</p>	<p>None</p>
<p>Storage</p>	
<p>Technical measures / Storage conditions:</p>	<p>None</p>
<p>Storage conditions:</p>	<p>None</p>
<p>Incompatible products:</p>	<p>None</p>
<p>Packaging material:</p>	<p>None</p>

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION	
Personal protective equipment	
Eye protection:	Use the prescribed operational protection equipment.
Hand protection:	Use the prescribed operational protection equipment.
Hygiene measures:	Do not contaminate tobacco products. Do not smoke. Wash hands before breaks and at the end of workday. General precaution for all plastics and elastomers: Do not breathe fumes evolved from hot polymer.
Control parameters	
Inhalable fraction/ A-dust	1,25 mg/m ³
Respirable fraction/ E-dust:	10 mg/m ³
Hydrogen fluoride:	1 ml/m ³ (ppm) or rather 0,83 mg/m ³ , peak limit
Carbonyl fluoride:	TLV-TWA = 2 ppm; TLV-STEL = 5 ppm; ACGIH (1999) LC50/inhalation/1h/rat = 360 ml/m ³ ; RTECS, 25044

9. PHYSICAL AND CHEMICAL PROPERTIES		
Appearance	tested according to:	
Form:	sheets or tapes	
Colour:	white	
Odour:	none	
PH (°C) :	not applicable	
Melting point / range:	327 - 342°C	ASTM D1457
Decomposition temperature:	>300°C	
Flash point:	not applicable	ASTM D1929
Autoignition temperature:	>500°C	
Explosive properties:	not applicable	
Relative density of the raw material:	from 2,14 g/cm ³ to 2,23 g/cm ³ (23°C)	ASTM D792
Nominal density:	from 0,35 g/cm ³ to 2,8 g/cm ³ (23°C)	
Water solubility:	insoluble	

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<p>10. STABILITY AND REACTIVITY</p>	
<p>Conditions to avoid:</p>	<p>Temperatures above 300°C</p>
<p>Materials to avoid:</p>	<p>Aluminium powder, magnesium powder, halogenated compounds, oxidising agents (strong), alkali metals</p>
<p>Hazardous decomposition products:</p>	<p>fluorinated olefins, carbonyl fluoride, hydrogen fluoride</p>
<p>Further information:</p>	<p>Product resists ignition and does not promote flame spread. O₂ -Index – ASTM D2863: >95%</p>
<p>11. TOXICOLOGICAL INFORMATION</p>	
<p>Acute toxicity:</p>	<p>No data available</p>
<p>Local effects:</p>	<p>The thermal decomposition vapours of fluorinated polymers may cause polymer fume fever with flu-like symptoms in humans. Symptoms usually appear after 2 hours and decline within the next 36 to 48 hours. No persistent or cumulative effects were observed.</p>
<p>12. ECOLOGICAL INFORMATION</p>	
<p>No data available</p>	
<p>13. DISPOSAL CONSIDERATIONS</p>	
<p>Unused products:</p>	<p>Like most thermoplastic plastics the product can be recycled. Where possible recycling is preferred to disposal or incineration.</p>
<p>Used products</p>	<p>Can be landfilled, when in compliance with local regulations. Can be incinerated using a scrubber to remove hydrogen fluorine, when in compliance with local regulations. Waste code number: 070213</p>
<p>Packaging</p>	<p>Empty containers should be taken for local recycling, recovery or waste disposal.</p>

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<p>14. TRANSPORT INFORMATION</p> <p>Not classified as dangerous in the meaning of transport regulations.</p>	
<p>15. REGULATORY INFORMATION</p> <p>Water hazard class: Not hazardous to water identification no.: 766</p> <p>Other regulations: Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.</p> <p>This product does not require classification according to the relevant German legislation (Ordinance on Hazardous Substances).</p>	
<p>16. OTHER INFORMATION</p> <p>Before use read KWO's installation and safety information.</p>	

Do not use in medical applications involving permanent implantation in the human body.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific materials designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.