

## Material Safety Data Sheet **Teijin® Teonex® Film**

Information of Manufacture	Company Address  Dep.  Emergency Contact  Date of Issue Date of revision	<b>Teijin Dupont Films Japan Limited</b> 2-1-1 Uchisaiwai-cho, Chiyoda-ku, Tokyo, Japan 100-8585 Production & Technology Dept. Tel. # 81-3-3506-4304 Fax # 81-3-3506-4378 R&D Planning Sec. Tel. # 81-584-64-7176 Nov. 10 <sup>th</sup> 1996 May 19 <sup>th</sup> 2006
Name of Product	Product Name Trade Name	<b>Bi-axially Oriented PEN Film</b> Teijin® Teonex® Film
Material Identification	Single substance or Mixture Chemical Name Content Molecular Formula CAS #	Single substance Poly ethylene-2,6- naphthalate 99.5% or higher (C <sub>14</sub> H <sub>12</sub> O <sub>4</sub> .C <sub>2</sub> H <sub>6</sub> O <sub>2</sub> ) <sub>x</sub> 25853-85-4
Classification of Dangerousness and Hazardousness	Dangerousness Hazardousness Environmental Influence	None in particular None in particular None in particular
First Aid	Eye Contact:  Skin Contact: Inhalation: Ingestion:	Same as general foreign particle Washing with water and consult a doctor if necessary Not required — —
Treatment in case of Fire	Extinguishing Method: Extinguishing Media: Breathing apparatus:	Any kind will do Water, CO <sub>2</sub> , Form, Dry Chemical Recommended to protect from hazardous gases

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Treatment in case of Drain	Possibility of Drain:	None
Cautions in Handling and Storage	Cautions in Handling:	Film roll may be heavy. So, general cautions for heavy material are required. Static electricity may take place during processing. Therefore use of static eliminators is recommended.
	Cautions in Storage:	General cautions for heavy material are required. Exposure to fire, high temperature and sun light is prohibited.
Safety Procedure	Safety Apparatus	Breathing apparatus: Not required Safety glasses: Recommended to avoid contact with eye Safety gloves: Recommended for handling heavy gauge film to avoid cut Safety clothing: Not required
Physical and Chemical Properties	Appearance	Rolled transparent sheet film
	Boiling point	None
	Melting point	269°C
	Vapor pressure	0
	Volatility	Not volatile
	Specific gravity	1.35 - 1.36 g/cm <sup>3</sup>
	Solubility in water	Insoluble
Information on Flammability and Chemical Stability	Flash point :	None
	Ignition point:	Above 400 °C
	Explosion limit :	None
	Flammability :	Flammable, if contacted with fire
	Spontaneous ignition :	None
	Oxidation property:	None
	Self-reactivity, explosiveness :	None
	Chemical stability :	Stable

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Information on Toxicity	Skin irritation:	None
	Eye irritation:	None
	Acute toxicity:	None
	Chronic toxicity:	None
	Carcinogenicity:	
	Mutagenicity:	None
	Teratogenicity:	None

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Information on Environmental Issues	Decomposability :	None
	Tendency of accumulation :	None
	Toxicity for fish :	None

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Waste Disposal	Landfill or incineration Local regulation should be respected.
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Cautions in Transportation	General cautions for heavy material should be taken.
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Remarks	<ul style="list-style-type: none"><li>* All contents described here are prepared based on newest documents, information and/or data. However, it does not necessarily guarantee quantity of any components, physical or chemical characteristics, danger and/or harmfulness of the film described here.</li><li>* All descriptions written here are valid only for normal use and additional caution and/or care should be considered for use under special conditions.</li><li>* This MSDS will be revised in the future when additional information is gained.</li><li>* Danger and/or harmfulness might be underestimated. Therefore, please handle this product with enough care and/or attention always.</li><li>* Please do not use this product for unexpected way of use.</li></ul>
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