

Date of issue
Date of recent revision

10-Nov-96
02-Oct-08

Material Safety Data Sheet

1 Product Name and Information of Manufacture

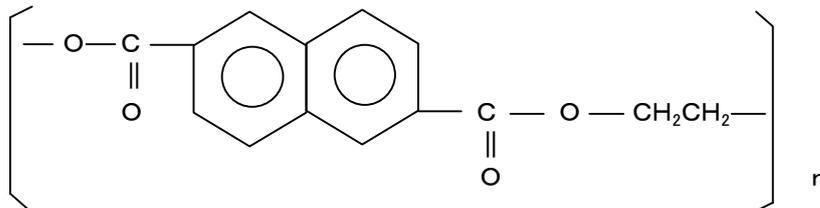
Product Name	Bi-axially Oriented PEN Film
Trade Name	Teonex® Q51
Company	Teijin Dupont Films Japan Limited
Address	Kasumigaseki Common Gate West Tower 3-2-1 Kasumigaseki, Chiyoda-ku Tokyo 100-8585, Japan
Dep.	Production & Technology Dept.
	Tel. # 81-3-3506-4304
	Fax # 81-3-3506-4378
Emergency Contact	R&D Planning Sec.
	Tel. # 81-584-64-7176

2 Classification of Dangerousness and Hazardousness

Dangerousness	None in particular
Hazardousness	None in particular
Environmental influence	None in particular

3 Material identification

Single substance or Mixture	Mixture
1) Chemical Name	Poly ethylene naphthalate
Content	99.5% or higher
Chemical Formula	



CAS No.	24968-11-4
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2) Chemical Name	Silicon dioxide(SiO ₂)
Content	less than 0.2%
CAS No.	7631-86-9

4 First Aid

Eye Contact	:Same as general foreign particles Washing with water and consult a doctor if necessarily
Skin Contact	:Not required
Inhalation	: -
Ingestion	: -

5 Treatments in case of Fire

Extinguishing Method	:Any kinds will do
Extinguishing Media	:Water, CO ₂ , Foam, Dry Chemical
Breathing apparatus	:Recommended to protect from hazardous gas

6 Treatment in case of Drain

Possibility of Drain	:None
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7 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. So, 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.

8 Safety Procedure

Safety Apparatus	Breathing apparatus	: Not required
	Safety glasses	: Recommended to avoid eye contact
	Safety gloves	: Recommended for handling heavy gauge film to avoid cut
	Safety clothing	: Not required

9 Physical and Chemical Properties

Appearance	:Transparent sheet-shaped solid
Boiling point	: None
Melting point	: 269 deg.C
Vapor pressure	: 0
Volatility	:Not volatile
Specific gravity	: 1.35 g/cm ³
Solubility in water	: Insoluble

10 Information on Flamability and Chemical Stability

Flash point	: None
Ignition point	: Above 587 degC
Explosion limit	: None
Flammability	: Flammable, if contacted with fire
Spontaneous ignition	: None
Oxidation property : None	: None
Self-reactivity, explosiveness	: None
Chemical stability	: Stable

11 Information on Toxicity

Skin irritation	: None
Eye irritation	: None
Acute toxicity	
Chronic toxicity	: None
Carcinogenicity	: None
Mutagenicity	
Teratogenicity	: None

12 Information on Environmetal Issues

Decomposability	: None
Tendency of accumulation	: None
Toxicity for fish	: None

13 Waste Disposal

Landfill or incineration	: Local regulation should be respected.
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14 Cautions in Transportation

General cautions for heavy material should be taken.

15 Remarks

- * All contents described here are basically according to JIS(Japanese Industrial Standards) Z 7250: 2005 and a Japanese ordinance on Industrial Safety and Health (Ministry of Labour Ordinance No. 32 of September 30, 1972) - Latest Amendments: Ministry of Health, Labour and Welfare Ordinance No. 185 of October 20, 2006.
 - * All descriptions written here are valid only for normal use. And additional caution and/or care should be considered for use under special conditions.
 - * This MSDS will be revised in the future when additional information is obtained.
 - * Danger and/or harmfulness might be underestimated. Therefore, please handle this product with enough care and/or attention always
 - * Please do not use this product for unexpected way of use.
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