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3	17.10.2016	80



Fiber Intermediate Products Co .

(FIPCO)

Material Safety Data Sheet

Section 1 - Chemical Product and Company Identification

MSDS Name: Dimethyl terephthalate , 99%

Synonyms: D.M.T.

Company Identification:

Company : Fiber Intermediate Products Company (FIPCO)

Address: 45th Km of Isfahan Mobarakeh Road. Isfahan. IRAN.

P.O.Box: 81655-569

Telephone : +98-3152288272

Fax : +98-3152288235

E-mail address : marketing@fipcoiran.com

Emergency Phone : +98-9133136158

Section 2 - Hazards Identification

EMERGENCY OVERVIEW

Caution! May cause eye, skin, and respiratory tract irritation. Target Organs: No data found.

Potential Health Effects

Eye: May cause eye irritation.

Skin: May cause skin irritation. May cause skin sensitization, an allergic reaction, which becomes evident upon reexposure to this material.

Ingestion: May cause gastrointestinal irritation with nausea, vomiting and diarrhea.

Inhalation: Inhalation of dust may cause respiratory tract irritation.

Chronic: Some adverse reproductive effects were seen in animal studies. Few defects occurred when rats were given

injections of dimethyl phthalate intraperitoneally on gestational days 5, 10 and 15.

Section 3 - Composition, Information on Ingredients

CAS#: 120-61-6

Chemical Name: Dimethyl terephthalate

EINECS#: 204-411-8

Hazard Symbols: None listed

Risk Phrases: None listed

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Section 4 - First Aid Measures

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids.

Get medical aid immediately.

Skin: Get medical aid immediately. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an Ingestion: unconscious person. Get medical aid.

Inhalation: Remove from exposure and move to fresh air immediately.

Notes to Physician:

Section 5 - Fire Fighting Measures

General Information:

Extinguishing media

Suitable extinguishing media: Water spray, foam, CO2, dry powder.

Special hazards arising from the substance or mixture

No particular measures required.

Advice for firefighters

Water for fire fighting must not be introduced in the sewer system, subsoil, or surface waters.

Assure that there are sufficient fire water retaining facilities Contaminated fire fighting water must be disposed of in conformity with the regulations of the local authorities.

Fire residues should be disposed of in accordance with the regulations.

wear a self contained respiratory apparatus

Wear suitable protective clothing.

Section 6 - Accidental Release Measures

Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation.

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Section 7 - Handling and Storage

Handling:

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation.

Storage:

Keep container closed when not in use. Store in a cool, dry, well-ventilated area away from incompatible substances.

Section 8 - Exposure Controls, Personal Protection

Chemical Name	ACGIH	NIOSH	OSHA -Final PELs
Dimethyl terephthalate	none listed	none listed	none listed

OSHA Vacated PELs: Dimethyl terephthalate: None listed

Engineering Controls:

Use adequate ventilation to keep airborne concentrations low.

Personal Protective Equipment:

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State: Crystals

Color: white

Odor: None reported.

pH: Not available

Vapor Pressure: 0.00106 mm Hg @25 deg C

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Vapor Density: 1.04

Evaporation Rate: Not available

Viscosity: Not available

Boiling Point: 288 deg C @ 760 mm Hg (550.40°F)

Freezing/Melting Point: 140 - 142 deg C

Solubility in water: soluble in ether and hot alcohol

Specific Gravity/Density: 520 °C
Method: DIN 51 794

Molecular Formula: C10H10O4

Molecular Weight: 194.19

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures. Finely powdered ester is significant dust explosion hazard.

Conditions to Avoid: Dust generation.

Incompatibilities with Other

Materials Strong oxidizing agents, strong acids.

Hazardous Decomposition

Products Carbon monoxide, carbon dioxide.

Hazardous Polymerization Has not been reported.

Section 11 - Toxicological Information

RTECS#: CAS# 120-61-6: WZ1225000

RTECS:

CAS# 120-61-6: Dermal, guinea pig: LD50 = >5 gm/kg;

LD50/LC50: Draize test, rabbit, eye: 500 mg/24H Mild;

Oral, rat: LD50 = >3200 mg/kg;.

Carcinogenicity: Dimethyl terephthalate - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Other: See actual entry in RTECS for complete information.

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Section 12 - Ecological Information

Toxicity

Toxicity to fish LC50 semi-static test *Brachydanio rerio*: 13 mg/l / 96 h

Analytical monitoring: yes

Test substance: dimethyl terephthalate

Method: OECD TG 203

Toxicity in aquatic invertebrates

EC50 static test *Daphnia magna*: > 23,5 mg/l / 48 h

Test substance: dimethyl terephthalate

Method: OECD TG 202

NOEC static test *Daphnia magna*: 10,8 mg/l / 48 h

Test substance: dimethyl terephthalate

Method: OECD TG 202

NOEC semi-static test *Daphnia magna*: 1,72 mg/l / 21 d

Test substance: dimethyl terephthalate

Method: OECD TG 211

EC50 semi-static test *Daphnia magna*: > 6,01 mg/l / 21 d

Test substance: dimethyl terephthalate

Method: OECD TG 211

Toxicity to algae

EC50 static test *Desmodesmus subspicatus*: > 29 mg/l / 72 h

End point: growth rate

Test substance: dimethyl terephthalate

Method: OECD TG 201

Toxicity to bacteria

EC 10 local activated sludge: 1000 mg/l / 3 h

Test substance: dimethyl terephthalate

Method: OECD TG 209

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Section 13 - Disposal Considerations

Waste treatment methods

Uncleaned packaging

With respect to local regulations, e.g.
dispose of to suitable waste incineration plant.

Waste Key Number

The waste key number must be determined as per the European Waste Types List (decision on EU Waste Types List 2000/532/EC) in cooperation with the disposal firm / producing firm / official authority

Section 14 - Transport Information

US DOT

Shipping Name: Not regulated as a hazardous material

Hazard Class:

UN Number:

Packing Group:

Section 15 - Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

National legislation

employment restriction Please note Directive 94/33/EC (Protection of Young Workers at the Workplace Directive) and amendments.

registration

Europe (REACH) listed/registered

USA (TSCA) listed/registered

Canada (DSL) listed/registered

Australia (AICS) listed/registered

Japan (MITI) listed/registered

Korea (TCCL) listed/registered

Philippines (PICCS) listed/registered

China listed/registered

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Section 16 - Other Information

MSDS Creation Date: 10/02/2014

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.