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Fiber Intermediate Products Co .
(FIPCO)

Material Safety Data Sheet

Section 1 - Chemical Product and Company Identification

MSDS Name: (Diocetyl Terephthalate)

Synonyms: DOTP

Company Identification:

Company : Fiber Intermediate Products Company (FIPCO)

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

P.O.Box: 81655-569

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Section 2 - Composition, Information on Ingredients

CAS#: 6422-86-2

Chemical Name: Bis(2-ETHYLHEXYL)TEREPHTHALATE

EINECS#: 229-176-9

Hazard Symbols: None listed

Risk Phrases: None listed

Section 3 - 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

Section 4 - First Aid Measures

Inhalation: Remove from contaminated area promptly. If breathing stops, administer artificial respiration and seek medical aid promptly.

Skin: Wash with soap and plenty water over 15 minutes. Remove contaminated clothing and do not reuse until thoroughly cleaned or laundered. Seek medical assistance.

Eyes: Wash eyes with plenty water over 15 minutes, holding eyelids open. Seek medical assistance

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promptly if there is irritation.

Ingestion: Product ingestion may cause gastrointestinal irritation. Give plenty water to dilute product. Do not induce vomiting. Keep victim quiet. If vomiting occurs, lower victim's head below hips to prevent inhalation of vomited material. Never give anything by mouth to an unconscious person. Seek medical help promptly.

Special measures : In case of spillage of eyes and face, treat eyes firstly.

Section 5 - Fire Fighting Measures

General Information:

Combustible. The vapor is heavier than air and will accumulate in low area. Heat from fire can generate flammable vapor. Use water-spray to cool fire exposed containers. Prevent entry into sewers and watercourses of the wastes resulted from fire.

Extinguishing Media: Use water fog, dry chemical, carbon dioxide, or regular foam.

Flash Point: 238°C- closed cup

Explosion: Explosion limits –none

Oxidizing properties It is not oxidizing agent

Section 6 - Accidental Release Measures

Personal precautions: Evacuate the personnel that do not participate to the intervention. Persons performing clean-up work should wear adequate personal protective equipment and a self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode. Ventilate area of leak or spill.

Environmental precautions: Isolate the contaminated area. Ventilate area order to from contamination the ground and the surface water by isolating the hazard area. Avoid the open flames, sparks and smoking in the area.

Methods of cleaning up: Collect and recovery the liquid when is possible. Absorb spills with an inert sorbent (vermiculite, sand) and store into closed waste container .

Special precautions: Do not use combustible materials, such as saw dust. Do not flush to sewer!

Section 7- Handling and Storage

Handling: Handling the product in accordance with industrial hygiene practices and with safety requirements.

Storage : Store in metallic containers/drums perfectly closed, in a cool, dry environment, away from open flame and oxidising agents.

Section 8-Exposure Controls, Personal Protection

Exposure limits:

-Long term exposure limit, 8 hours

-Short term exposure, 15 minutes

Engineering Controls:

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A system of local and/or general exhaust is recommended to keep employee exposure as low as possible. Local exhaust ventilation is generally preferred because it can control the emission of the contaminant at its sources, preventing dispersions of it into the general work area..

Personal protective equipment

Respiratory protection: In case of permanent exposure is recommended using of breathing apparatus filtering organic compounds. For emergencies or instances where the exposure levels are not known, use a full face piece positive pressure air-supplied respirator.

Hand protection: Wear rubber gloves (exclude PVC)

Eye protection: Use chemical safety goggles. Avoid use of lenses .

Skin protection : Wear impervious protective clothing, including boots, gloves, lab coat apron or coveralls as appropriate, to prevent skin contact

Other precautions : Maintain shower, eye wash fountain and quick-drench facilities in work area

Section 9 - Physical and Chemical Properties

General information

Appearance Liquid with characteristic odor

Important health, safety and environmental information

pH, at 20°C: none

Boiling point: 400° C

Flash point: 238°C- closed cup

Explosive properties: Explosion limits –none

Oxidizing properties: It is not oxidizing agent

Vapour pressure (217°C): 1,33mbar

Relative density (water=1): 0,984

Water solubility 14 mg/l (at 20°C): Also soluble in acetone, ethanol, aromatic hydrocarbins

Dynamic viscosity: 63 CP (at 25 °C)

Other information

Melting point: -48° C

Autoignition temperature: not known

Section 10 - Stability and Reactivity

Chemical stability: Stable under ordinary conditions of use and storage in closed containers.

Condition to avoid: Heating at high temperatures.

Materials to avoid : Strong oxidizers ,strong bases

Hazardous decomposition products : Carbon monoxide and dioxide may form when heated to decomposition. The product may produce irritating fume when is heated to decomposition.

Section 11 - Toxicological Information

Animal toxicity data

LD 50/oral-rat >5000 mg / kg

Acute toxicity

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Inhalation: irritant for the respiratory system .

Skin contact : It causes skin irritation

Eye contact: It causes eye irritation.

Ingestion : It causes gastro-intestinal irritation .

Chronic effects : Prolonged exposure to the substance alters the reproductive function and can produce target organs damages.

CMR effects:

Carcinogenicity: Not classifiable as carcinogenic by IARC.

Mutagenicity: Not classifiable as mutagenic.

Toxicity for Reproduction: Not classifiable as toxic for reproduction.

Section 12- Ecological Information

Ecotoxicity

Mobility: Bis-(2-ethylhexyl)terephthalate is present in air at very low concentration due to the very low value of vapour pressure and Henry constant. Due to its low solubility, it is absorbed by organic materials existing in soil and sediments from the natural water.

Persistence and degradability: Released into the air the product is degraded by reaction with photochemically produced hydroxyl radicals with a half-life of 17,5 ore. Do not hydrolyze in water

Bioaccumulative potential: this product is not a bioaccumulator

Section 13-Disposal Considerations

Waste treatment: What ever cannot be saved for recovery or recycling should be handled as nonhazardous waste and sent to an approved incinerator or disposed in an approved waste facility. Dispose of contaminated product, container residues and spill clean up materials in accordance with federal, state and local requirements.

Packaging treatment: The empty containers, tank cars and tank trucks are treated with steam and rinsed with plenty of hot water. The resulting effluents are treated in the same way as waste. The empty and clean containers are to be reused in conformity with regulations

Section 14-Transport Information

Bis-(2-ethylhexyl)terephthalate has no specific regulations of transportation

Section 15- Regulatory Information

Bis-(2-ethylhexyl)terephthalate is not classified and labeled under Annex 2 of Governmental Decision 490/2002 (Annex I of directive 67/548/CEE).

Section 16 - Other Information

Technical control: Avoid the direct contact with the substance
