Tri(2-ethylhexyl) Phosphate (TOP)

Company Information

Sunchem Co.,Ltd.

Add: A-11F, 186 Yangtzi Middle Road, Yangzhou, China.

Tel:+86 514 87851548

Fax:+86 514 87872867

Email: info@sunchemgroup.com

Product Identification

[Product Name]

Tris(2-ethylhexyl) phosphate

[Synonyms]

Disflamoll TOF

Phosphoric acid tris(2-ethylhexyl) ester

Tris(2-ethylhexyl) phosphate

[CAS]

78-42-2

[Formula]

C24H51O4P

[Molecular Weight]

434.65

[EINECS]

201-116-6

[RTECS]

MP0770000

[RTECS Class]

Tumorigen; Primary Irritant

[Beilstein/Gmelin]

```
1715839
```

[Beilstein Reference]

4-01-00-01786

[EC Class]

irritant

Physical and Chemical Properties

[Appearance]

Pale yellow liquid.

[Solubility in water]

Insoluble

[Melting Point]

-70

[Boiling Point]

406

[Vapor Pressure]

2E-6 (25 C)

[Density]

0.92 g/cm3 (20 C)

[Partition Coefficient]

10.09

[Heat Of Vaporization]

63.2 kJ/mol

[Usage]

Flame retardant plasticizer for polyvinyl chloride resins.

[Vapor Density]

[Refractive Index]

1.443 (20 C)

First Aid Measures

[Ingestion]

DO NOT INDUCE VOMITING. If the victim is conscious and not convulsing, give 1 or 2 glasses of water to dilute the chemical and IMMEDIATELY call a hospital or poison control center. Be prepared to transport the victim to a hospital if advised by a physici an.

[Inhalation]

IMMEDIATELY leave the contaminated area; take deep breaths of fresh air. If sympto ms (such as wheezing, coughing, shortness of breath, or burning in the mouth, throat, or chest) develop, call a physician and be prepared to transport the victim to a hospit al. Provide proper respiratory protection to rescuers entering an unknown atmosphere. Whenever possible, Self-Contained Breathing Apparatus (SCBA) should be used.

[Skin]

IMMEDIATELY flood affected skin with water while removing and isolating all contamin ated clothing. Gently wash all affected skin areas thoroughly with soap and water. If s ymptoms such as redness or irritation develop, IMMEDIATELY call a physician and be prepared to transport the victim to a hospital for treatment.

[Eyes]

First check the victim for contact lenses and remove if present. Flush victim's eyes with water or normal saline solution for 20 to 30 minutes while simultaneously calling a hospital or poison control center. Do not put any ointments, oils, or medication in the victim's eyes without specific instructions from a physician. IMMEDIATELY transport the victim after flushing eyes to a hospital even if no symptoms (such as redness or irritat ion) develop.

Handling and Storage

[Storage]

In general, materials which are toxic as stored or which can decomp into toxic components. Should be stored in a cool, well-ventilated place, out of direct rays of the sun, a

way from areas of high fire hazard, and should be periodically inspected. Incompatible materials should be isolated from each other.

[Handling]

Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed.

Hazards Identification

[Inhalation]

Symptoms of exposure to this compound include irritation of the skin and eyes. Skin c ontact may cause discomfort, itching, reddening and swelling of the skin. Eye contact may cause discomfort, redness, tearing and swelling. Other symptoms may include difficult breathing and pulmonary edema.

[Skin]

Can cause skin irritation. Symptoms may include redness and burning of skin, and oth er skin damage.

[Eyes]

May cause mild eye irritation. Symptoms include stinging, tearing, and redness.

[Ingestion]

Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful.

[EC Risk Phrase]

R 36/38

Exposure Controls/Personal Protection

[Personal Protection]

Chemical splash goggles in compliance with OSHA regulations are advised; however, OSHA regulations also permit other type safety glasses. Wear resistant gloves. To pre vent repeated or prolonged skin contact, wear impervious clothing and boots.

[Respirators]

Wear a NIOSH-approved half face respirator equipped with an organic vapor/acid gas

cartridge (specific for organic vapors, HCI, acid gas and SO2) with a dust/mist filter.

[Exposure Effects]

The toxological properties of this substance have not been fully investigated.

[Poison Class]

5

Fire Fighting Measures

[Flash Point]

170

[Autoignition]

370

(Fire Fighting)

Fires involving this material can be controlled with a dry chemical, carbon dioxide or H alon extinguisher. A water spray may also be used.

[Fire Potential]

This chemical is combustible.

Accidental Release Measures

[Small spills/leaks]

If you spill this chemical, FIRST REMOVE ALL SOURCES OF IGNITION. Then, use a bsorbent paper to pick up all liquid spill material. Your contaminated clothing and absorbent paper should be sealed in a vapor-tight plastic bag for eventual disposal. Solven t wash all contaminated surfaces with 60-70% ethanol followed by washing with a soap and water solution. Do not reenter the contaminated area until the Safety Officer (or other responsible person) has verified that the area has been properly cleaned.

Stability and Reactivity

[Disposal Code]

1

[Incompatibilities]

Incompatible with oxidizing materials Incompatible with cellulose acetate and cellulose acetate butyrate.

[Stability]

Stable.

[Decomposition]

Oxides of carbon and phosphorous.

Transport Information

[HS Code]

2919 00 90