

Material Safety Data Sheet

TMPDE

Part one---Chemical and company identification

Chemical code: TMPDE

Chemical name: Trimethylolpropane Diallyl Ether

Company Name: Zhuhai Feiyang Novel Materials Corporation Limited

Address: FEIYANG CHEMICAL FACTORY , BEIWU ROAD ,PETROL-CHEMICAL DISTRICT, ZHUHAI GAOLAN PORT ECONOMIC ZONE

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Part two ---Composition /component information

Compound	Admixture	✓
Component	CAS NO.	Content
Monoallyl ether	682-11-1	6-14%
Diallyl ether	682-09-7	82-86%
Triallyl ether	682-08-6	3-10%

Part three---Hazards identification

Hazards class: Irritant

Hazard to environment: irritating to eyes, respiratory system and skin.

Explosion hazard: from peroxides when stored in opened, unsealed containers .

Part four---First aid measure

Any question or continual symptom, ask for help from doctors.

Skin contact: wash with water and soap and rinse thoroughly

Eye contact: rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

Inhalation:in case if unconsciousness place patient stably in side position for transportation.

Ingestion: if swallowed, rinse out mouth and then drink plenty of water or milk.

Part five ---fire fighting measures

Hazards formed gas: under certain fire conditions, traces of other toxic gass cannot be excluded, eg . allyl alcohol and acrolein.

Extinguishing way: CO₂, foam, fire-extinguishing powder.

Fire fighting instructions: wear self-contained respiratory protective device.

Other information: cool endangered receptacles with water spay.

Part six ----Accidental release measure

Personal safety precautions: use respiratory protective device against the effect of fumes or dust aerosol.

Environment protection: do not to allow entering sewers /surface or ground water.

Cleaning: absorb with liquid-binding material (sand, diatomite, acid binders, universal binders). Ensure adequate ventilation. Sent to recovery or disposal in suitable recepacles.

Part seven----Handling and storage

Handling : keep receptacles tightly sealed . Keep away from heat and direct sunlight.
Ensure good ventilation /exhaustion at work place.

Storage: avoid contact with air /oxygen (formation of peroxide) , keep container tightly sealed , store only in the original receptacle.

Part eight ---Exposure controls /personal protection

Monitoring: the product doesn't contain any relevant quantities of material wit critical values that have to be monitored at the work place.

Respiration protection: incase of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device .

Hand protection: protective gloves.

Eye protection: tightly sealed goggles.

Additional: keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing.Wash hand before breaks and at the end of works. Do not inhale gases /fumes /aerosols.

Part nine---Physical and chemical properties

Appearance: Clear Colorless Liquid

Melting point: < -80°C

Boiling point : 135°C (10 Pa)

Flash point :127°C

Decomposition temperature : <250°C

Density (20°C) : 950-960 kg/m³

Solubility: readily soluble in alcohols, readily soluble with Acetone.

Self-igniting: product is not self-igniting

Part ten--- Stability and reactivity

Stability: stable

Conditions to be avoid: directly sunlight and heat.

Materials to be avoided: oxidizing substance including air (oxygen).

Dangerous decomposition product :acrolein , allylalcohol .

Toxic temperature:>250°C

Part eleven ---Toxicological information

Acute toxicity: LD/LC 50 values =5000 mg/kg oral (rat)

LD/LC 50 values >5000 mg/kg demal (rabbit)

Aquatic toxicity: EC0 =1000mg/l (bacteria)

EC50>100mg/l (alga)

LC100/48h=20mg/l (fish)

Skin irritant: irritant to skin and mucous membranes

Eye irritant: irritating effect

Part twelve---Ecological information

COD: 1.77g/g (O2)

Zahn-Wellen: 72% (SS-EN 29 888)

Other: this product is biodegradable

Part thirteen --- Disposal consideration

Recommendation:must not be disposed together with household garbage, do not allow product to reach sewage system. Wastes from organic chemical processes, wastes from the manufacture , formulation ,supply and use (MFSU) of basic chemicals . Disposal must be made according to official regulations.

Part fourteen ---Transportation information

ADR/RID class:-

IMDG class:-

ICAO/IATA class:-

Transport information: not dangerous goods according to the above specifications.

Part fifteen--- Regulatory information

Regulations: safety regulation for hazardous chemicals

Detail application rules of safety regulation for hazardous chemicals

Rules of using chemical safely at working spot.

Cass and sign for common hazardous chemicals (GB13690-92)

Part sixteen ---Other information

References: 1. Safety management for chemicals at working spot

2. Safety handbook for hazardous goods

3. All-round book for safety technology hazardous chemicals

4. Register regulation for hazardous chemicals

Written date: Aug, 2005

Writing organization: Zhuhai Feiyang Novel Materials Co., Ltd

Data inspected by: Zhuhai Feiyang Novel Materials Co., Ltd

Writing account: writing according to rules for writing MSDS (GB16483-2000)

Other: this safety datasheet is not a product specification, it is based on our present knowledge and experience and it is intended to serve as a guide for safe handling of the product regarding to health and environment aspect.