Chemical Safety Data Sheet

PTE

Part One Chemical and Company Identification

Product name: Pentaerythritol Triallyl Ether

Trade name: PTE

Application of the substance / the preparation Chemical intermediate

Company Name：Shenzhen Feiyang Chemical Co.,ltd.

Address：20-402, District A, Nanyou, Shenzhen, P.R.C

Postcode：518054

Company Telephone：0755-26404303

Fax：0755-26404265

Document Number：Dec-2003-CSDS001

Date into Effect：18/12/2003

Emergency Call： 0755-27237286

Website：http://www.feiyang.com.

Registered Code：

Part two Composition/Component Information

Chemical characterization

Chemical components:

CAS: 1471-17-6 1,3-Propandiol-2,2-bis(hydroxymetyl)-, allyleter
Additional information: For the wording of the listed risk phrases refer to section 16.

Part Three Hazards Identification

Hazard description: Xi Irritant

Information concerning particular hazards for human and environment:

R 36/37/38 Irritating to eyes, respiratory system and skin.

R 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the

aquatic

environment.

Part Four First Aid Measures

General information: Remove any clothing soiled by the product.

After inhalation: Take affected persons into fresh air and keep quiet.

After skin contact: Immediately rinse with water.

After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing:

Rinse out mouth and then drink plenty of water or milk.

If you feel unwell consult doctor.

Part Five Fire Fighting Measures

Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Special hazards caused by the substance, its products of combustion or resulting gases:

Formation of toxic gases is possible during heating or in case of fire.

Protective equipment: Respiratory protective device.

Additional information Cool endangered receptacles with water spray.

Part Six Accidental Release Measures

Measures for environmental protection:

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

Measures for cleaning/collecting:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose of the material collected according to regulations

Part Seven Handling and Storage

Handling:

Information for safe handling:

Ensure good ventilation/exhaustion at the workplace.

Store in cool, dry place in tightly closed receptacles.

Keep away from heat and direct sunlight.

Information about fire - and explosion protection: Protect from heat.

Storage:

Requirements to be met by storerooms and receptacles:

Store in a cool location.

Store only in the original receptacle.

Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.

Avoid contact with air / oxygen (formation of peroxide).

Protect from heat and direct sunlight.

Part Eight Exposure Controls/Personal Protection

Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be

monitored at the workplace.

Additional information:

Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal protective equipment:

General protective and hygienic measures:The usual precautionary measures are to be adhered to when handling chemicals.

Avoid contact with the eyes and skin.

Respiratory protection:

Suitable respiratory protective device recommended.

In case of brief exposure or low pollution use respiratory filter device. In case of

intensive or longer

exposure use self-contained respiratory protective device.

Protection of hands:

Protective gloves

Material of gloves

Chloroprene rubber, CR

Nitrile rubber, NBR

Fluorocarbon rubber (Viton)

Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and

Part Nine Physical and Chemical Properties

General Information

Form: Fluid

Colour: Colourless

Odour: Characteristic

Change in condition

Melting point/Melting range: < -20℃

Boiling point/Boiling range: 100°C (10 Pa)

Flash point: 146°C

Ignition temperature:

Decomposition temperature: > 250°C ((calculated))

Vapour pressure at 25°C: < 1 Pa

Density at 20℃: 985 kg/m³

Solubility in / Miscibility with

water: Partly miscible.

Partition coefficient (n-octanol/water) at

25℃: < 1 log POW

Part Ten Stability and Reactivity

Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

To avoid thermal decomposition do not overheat.

Dangerous reactions

Reacts with oxidizing agents.

Possible formation of peroxide.

Dangerous decomposition products:

Poisonous gases/vapours

>250°C

Part Eleven Toxicological Information

Acute toxicity:

LD/LC50 values relevant for classification:

91648-24-7 1,3-Propandiol-2,2-bis(hydroxymetyl)-, allyleter

Oral LD50 >5000 mg/kg (rat)

Primary irritant effect:

on the skin: Irritant to skin and mucous membranes.

on the eye: Irritating effect.

Sensitization: No sensitizing effects known.

Subacute to chronic toxicity: No data

Part Twelve Ecological Information

Information about elimination (persistence and degradability):

91648-24-7 1,3-Propandiol-2,2-bis(hydroxymetyl)-, allyleter

Zahn-Wellen < 70 % (OECD 302 B)

Other information: Halftime in soil 30 days (estim.)

Behaviour in environmental systems:

Mobility and bioaccumulation potential:

Due to the distribution coefficient n-octanol/water a worth-mentioning accumulation in organisms is

not expected.

BCF: 3.2 (estim.)

Ecotoxicological effects:

Aquatic toxicity:

91648-24-7 1,3-Propandiol-2,2-bis(hydroxymetyl)-, allyleter

EC50/72 h >100 mg/l (alga)

LC50/96 h 52 mg/l (fish)

General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Part Thirteen Disposal Considerations

European waste catalogue

07 00 00 WASTES FROM ORGANIC CHEMICAL PROCESSES

07 01 00 wastes from the manufacture, formulation, supply and use (MFSU) of basic organic

chemicals

07 01 99 wastes not otherwise specified

Recommendation: Disposal must be made according to official regulations.

Part Fourteen Transportation Information

Land transport ADR/RID (cross-border)

ADR/RID class: -

Transport/Additional information: Not dangerous 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 Woking Spot

Cass and Sign For Common Hazardous Chemicals (GB13690-92)

General Technique Conditions For Transportation and PackingHazardous Goods (GB12463-90)

Part Sixteen Other Information

References：1. *Safety Management for Chemicals at Woking Spot*

2. *Safety Handbook for Hazardous Goods*

3. *All-Round Book for Safety Technology Hazardous Chemicals*

4. *Register Regulation for Hazardous Chemicals*

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Others：

The data in this Chemical Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

This information is based upon technical information believed to be reliable. It is subject to revision as additional knowledge and experience is gained.

End of CSDS