



CHUANG XIN

福建创鑫科技开发有限公司

FUJIAN CHUANG XIN SCIENCE AND DEVELOPS CO., LTD.

Tel : +86-591-83704867 Fax: +86-591-83753263 E-mail:kfb@fjirs.ac.cn

## MATERIAL SAFETY DATA SHEET

### Section 1. Product and company information

Product Name : Tris(trimethylsilyl) phosphate (99.5%)

Synonyms : TMSP

Company : FuJian Chuangxin Science and Develops Co.,Ltd.

Phone : +86-591-83704867

Fax : +86-591-83753263

E-mail address : kfb@fjirms.ac.cn

### Section 2. Composition/information on ingredients

Formula :  $[(CH_3)_3SiO]_3P(O)$

Molecular Weight : 314.54 g/mol

CAS-No. : 10497-05-9

### Section 3. Hazards summarizing

#### Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]

Flammable liquids (Category 3)

Skin irritation (Category 2)

Eye irritation (Category 2)

Specific target organ toxicity - single exposure (Category 3)

#### Classification according to EU Directives 67/548/EEC or 1999/45/EC

Flammable. Irritating to eyes, respiratory system and skin..

### Section 4. First aid measures

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

#### If inhaled

If breathed in, move person into fresh air. If not breathing give artificial respiration

#### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

#### In case of eye contact

Flush eyes with water as a precaution.

#### If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

## **Section 5. Fire-fighting measures**

### **Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### **Special hazards arising from the substance or mixture**

Carbon oxides, Oxides of phosphorus, silicon oxides

### **Advice for firefighters**

Wear self contained breathing apparatus for fire fighting if necessary.

## **Section 6. Accidental release measures**

### **Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid breathing vapors, mist or gas.

Ensure adequate ventilation. Evacuate personnel to safe areas.

### **Environmental precautions**

Do not let product enter drains.

### **Methods and materials for containment and cleaning up**

Soak up with inert absorbent material and dispose of as hazardous waste.

Keep in suitable, closed containers for disposal.

## **Section 7. Handling and storage**

### **Precautions for safe handling**

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

### **Conditions for safe storage, including any incompatibilities**

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

### **Specific end use(s)**

no data available

## **Section 8. Exposure controls/personal protection**

### **Exposure controls**

#### **Appropriate engineering controls**

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

#### **Personal protective equipment**

### **Eye/face protection**

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

### **Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.

Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

### **Body Protection**

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

### **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

## **Section 9. Physical and chemical properties**

### **Appearance**

Form: clear, liquid

Colour: colourless

### **Safety data**

pH value : no data available

Melting point : 3 - 4 °C

Boiling point : 228-229 °C

Flash point : 13 °C - closed cup

Auto-ignition temperature : no data available

Lower explosive limits : no data available

Upper explosive limits no data available

Water solubility : no data available

Vapour pressure : no data available

Vapour density : no data available  
Relative density : 0.945 g/mL at 25 °C  
Partition coefficient (noctanol/water) : no data available  
Decomposition temperature : no data available  
Viscosity : no data available  
Explosive properties : no data available  
Oxidizing properties : no data available

## **Section 10. Stability and reactivity**

### **Reactivity**

no data available

### **Chemical stability**

Stable under recommended storage conditions.

### **Possibility of hazardous reactions**

no data available

### **Conditions to avoid**

Heat, flames and sparks

### **Incompatible materials**

Strong oxidizing agents

### **Hazardous decomposition products**

Other decomposition products - Carbon oxides, Oxides of phosphorus, silicon oxides

## **Section 11. Toxicological information**

### **Acute toxicity**

no data available

### **Skin corrosion/irritation**

no data available

### **Serious eye damage/eye irritation**

no data available

### **Respiratory or skin sensitization**

no data available

### **Germ cell mutagenicity**

no data available

### **Carcinogenicity**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by



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IARC.

**Reproductive toxicity**

no data available

**Aspiration hazard**

no data available

**Potential health effects**

**Inhalation** May be harmful if inhaled. May cause respiratory tract irritation.

**Ingestion** Toxic if swallowed.

**Skin** May be harmful if absorbed through skin. May cause skin irritation.

**Eyes** May cause eye irritation.

**Signs and Symptoms of Exposure**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**Additional Information**

RTECS: TC9700000

**Section 12. Ecological information**

**Elimination information (persistence and degradability)**

**Toxicity**

no data available

**Ecotoxicity effects**

no data available

**Further information on ecology**

no data available

**Section 13. Disposal considerations**

**Waste treatment methods**

**Product**

This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company.

**Contaminated packaging**

Dispose of as unused product.

**Section 14. Transport information**

**UN number**

ADR/RID: 1993

IMDG: 1993

IATA: 1993



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### **UN proper shipping name**

ADR/RID: FLAMMABLE LIQUID, N.O.S. (Tris(trimethylsilyl) phosphate)

IMDG: FLAMMABLE LIQUID, N.O.S. (Tris(trimethylsilyl) phosphate)

IATA: Flammable liquid, n.o.s. (Tris(trimethylsilyl) phosphate)

### **Transport hazard class(es)**

ADR/RID: 3

IMDG: 3

IATA: 3

### **Packaging group**

ADR/RID:II

IMDG: II

IATA: II

### **Environmental hazards**

ADR/RID: no

IMDG Marine Pollutant: no

IATA: no

### **Special precautions for user**

no data available

## **Section 15. Regulatory information**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

## **Section 16. Other information**

### **Further information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Fujian Chuangxin Science and Develops Co., Ltd. shall not be held liable for any damage resulting from handling or from contact with the above product.