

MATERIAL SAFETY DATA SHEET

Revision Date: April 22, 2015

Section 1: Chemical Product and Company Identification

Product Name: Tricresyl Phosphate

Synonyms: Tritolyl phosphate

CAS No.: 1330-78-5

Supplier: Zhangjiagang Fortune Chemical Co., Ltd

Address: Rm 309, Bldg #8, Oriental New Plaza, Zhangjiagang City, Jiangsu, China 215600

Tel: +86-512-58905049

Fax: +86-512-58960306

Section 2: Hazards Identification

Label Elements

Pictogram



Signal

Danger

Hazard statements

H330 Fatal if swallowed

H441 Toxic to aquatic life with long lasting effects

Precautionary statements

P264 Wash thoroughly after handling

P310+301 IF SWALLOWED: Immediately call a poison center/doctor, Rinse mouth

P303+361 IF ON SKIN: Take off immediately all contaminated clothing and wash it before reuse. Rinse skin with water/ shower

P403+233 Store in a well-ventilated place. Keep container tightly closed.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations

Section 3: Composition/Information on Ingredients

Ingredient Name	CAS No.	% by Weight
Tricresyl Phosphate	1330-78-5	100

Toxicological Data on Ingredients: Tricresyl phosphate: ORAL(LD50): Acute: 3000mg/kg [Rat]. 3900mg/kg [Mouse]. DERMAL (LD50): Acute: 1701mg/kg [Rabbit].

Section 4: First Aid Measures

Eye Contact:

Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Do not use an eye ointment. Seek medical attention.

Skin Contact:

After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.

Serious Skin Contact:

Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.

Inhalation: Allow the victim to rest in a well ventilated area. Seek immediate medical attention.

Serious Inhalation:

Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek medical attention.

Ingestion:

Do not induce vomiting. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

Serious Ingestion: Not available.

Section 5: Fire and Explosion Data

Flammability of the Product: May be combustible at high temperature.

Auto-Ignition Temperature: 410°C (770°F)

Flash Points: OPEN CUP: 225°C (437°F).

Flammable Limits: LOWER: 0.4%

Products of Combustion: These products are carbon oxides (CO, CO₂).

Fire Hazards in Presence of Various Substances: Not available.

Explosion Hazards in Presence of Various Substances:

Risks of explosion of the product in presence of mechanical impact: Not available.

Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media and Instructions:

SMALL FIRE: Use DRY chemical powder.

LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

Special Remarks on Fire Hazards: Not available.

Special Remarks on Explosion Hazards: Not available.

Section 6: Accidental Release Measures

Small Spill: Absorb with an inert material and put the spilled material in an appropriate waste disposal.

Large Spill:

Absorb with an inert material and put the spilled material in an appropriate waste disposal. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

Section 7: Handling and Storage**Precautions:**

Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/vapour/spray. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes.

Storage:

Keep container dry. Keep in a cool place. Ground all equipment containing material. Keep container tightly closed. Keep in a cool, well-ventilated place. Combustible materials should be stored away from extreme heat and away from strong oxidizing agents.

Section 8: Exposure Controls/Personal Protection**Engineering Controls:**

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal Protection:

Splash goggles. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits: TWA: 0.1 (mg/m³) from ACGIH. Consult local authorities for acceptable exposure limits.

Section 9: Physical and Chemical Properties

Physical state and appearance: Liquid.

Odor: Not available.

Taste: Not available.

Molecular Weight: 368.36 g/mole

Color: Not available.

pH (1% soln/water): Not available.

Boiling Point: 420°C (788°F)

Melting Point: -33°C (-27.4°F)

Critical Temperature: Not available.

Specific Gravity: 1.16 (Water = 1)

Vapor Pressure: Not available.

Vapor Density: 12.7 (Air = 1)

Volatility: Not available.

Odor Threshold: Not available.

Water/Oil Dist. Coeff.: Not available.

Ionicity (in Water): Not available.

Dispersion Properties: Not available.

Solubility: Very slightly soluble in cold water.

Section 10: Stability and Reactivity Data

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Not available.

Incompatibility with various substances: Not available.

Corrosivity: Non-corrosive in presence of glass.

Special Remarks on Reactivity: Not available.

Special Remarks on Corrosivity: Not available.

Polymerization: No.

Section 11: Toxicological Information

Routes of Entry: Dermal contact. Eye contact. Inhalation. Ingestion.

Toxicity to Animals:

WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE.

Acute oral toxicity (LD50): 3000 mg/kg [Rat].

Acute dermal toxicity (LD50): 1500 mg/kg [Cat].

Acute toxicity of the vapor (LC50): 5000 ppm 4 hour(s) [Rat].

Chronic Effects on Humans: The substance is toxic to the nervous system.

Other Toxic Effects on Humans:

Very hazardous in case of ingestion.

Hazardous in case of skin contact (permeator), of inhalation.

Slightly hazardous in case of skin contact (irritant).

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: Not available.

Special Remarks on other Toxic Effects on Humans: Not available.

Section 12: Ecological Information

Ecotoxicity: Not Available.

Products of Biodegradation:

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the products of Biodegradation: The products of degradation are more toxic.

Special remarks on the products of biodegradation: Not available.

Section 13: Disposal Considerations

Water disposal: Not available

Section 14: Transport Information

DOT Classification: CLASS 6.1 **ID Number:** UN2574

Packing Group: II

Labels: 6.1, Marine Pollutant

Air Cargo Limit: No Limit

Special Provision for Transport: Not available.

Section 15: Regulatory Information

U.S. Federal Regulations:

The components of this product are either on the TSCA Inventory or exempt (i.e. impurities, a polymer complying with the exemption rule at 40 CFR 723.250) from the Inventory.

International Regulations:

This material is listed on the following inventories:

Canada: DSL

EU: EINECS

Australia: AICS

Japan: ENCS

Korea: ECL

Philippines: PICCS

China: List I

Health Hazard: 2

Fire Hazard: 1

Reactivity: 0

Protective Equipment:

Gloves

Lab coat

Vapor respirator: Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.

Section 16: Other Information

References: Not Available

Other Special Consideration: Not available.