



Material Safety Data Sheet

Tributyl Phosphate MSDS

1. CHEMICAL IDENTIFICATION

Product details

Substance name: Tributyl phosphate

Application of the substance/the preparation: Metal extraction

Manufacturer/Supplier: Linyi Kemele Co., Ltd.

C639 Jinke Development Zone Linyi ,China 276

Name : Product details

Trade name: Tributyl phosphate

Molecular Weight: 266.32

Chemical Formula: $(C_4H_9O)_3PO$

Further information obtainable from: Linyi Kemele Co.,Ltd.

Information in case of emergency: Linyi Kemele Co.,Ltd.

C639 Jinke Development Zone Linyi ,China 276

Website: www.kmchem.com

E-Mail: sales@kemele.com

Emergency phone number: +86-539-333 33

2. HAZARDS IDENTIFICATION

2.1 Label precautionary statements

Potential Health Effects

Eye: Causes severe eye irritation. Causes redness and pain.

Skin: May cause skin burns. Causes redness and pain.

Ingestion: Harmful if swallowed. May cause severe digestive tract irritation with abdominal pain, nausea, vomiting and diarrhea.

Inhalation: May cause irritation of the respiratory tract with burning pain in the nose and throat, coughing, wheezing, shortness of breath and pulmonary edema.

Chronic: Not available.

2.2 Other hazards: Not available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance, Mixture or Article? Substance

Ingredient(s):

Chemical Name	CAS No.	EC No.	Concentration
Tributyl phosphate	126-73-8	204-800-2	≥99%

4.FIRST-AID MEASURES

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids. Get medical aid.

Skin: Get medical aid. Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion: If victim is conscious and alert, give 2-4 cupfuls of milk or water. Get medical aid. Wash mouth out with water.

Inhalation: Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician: Treat symptomatically and supportively.

5.FIRE FIGHTING MEASURES

General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

Extinguishing Media:

In case of fire use water spray, dry chemical, carbon dioxide, or chemical foam.

Autoignition Temperature: 400 deg C (752.00 deg F)

Flash Point: 146 deg C (294.80 deg F)

NFPA Rating: health-3; flammability-1

Explosion Limits, Lower: Not available.

Upper: Not available.

6.ACCIDENTAL RELEASE MEASURES

General Information:

Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Absorb spill with inert material, (e.g., dry sand or earth), then place into a chemical waste container

7.HANDLING AND STORAGE

Handling: Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes.

Storage: Store in a cool, dry place. Store in a tightly closed container.

8.EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:

Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Personal Protective Equipment

Eyes:Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin:Wear appropriate protective gloves to prevent skin exposure.

Clothing:Wear appropriate protective clothing to prevent skin exposure.

Respirators:

Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

9.PHYSICAL AND CHEMICAL PROPERTIES

Physical properties

Appearance:	Clear liquid
Odor:	odorless
PH:	Not available.
Vapor Pressure:	< 0.1 m bar @ 20°C
Viscosity:	3.5 CP 25°C
Boiling Point:	290 deg C @ 760.00mm Hg
Freezing/Melting Point:	-79°C
Decomposition Temperature:	> 290°C
Solubility:	0.6 g/100ml water
Specific Gravity/Density:	0.975-0.980 g/cm3 @ 20°C
Molecular Weight:	266.32
Molecular Formula:	[CH3(CH2)3O]3P(O)

10.STABILITY AND REACTIVITY

Chemical Stability:Stable.

Conditions to Avoid:Incompatible materials, temperatures above 250 fC.

Incompatibilities with Other Materials:Strong oxidizing agents, strong bases.

Hazardous Decomposition Products:Phosphine,carbon monoxide,oxides of phosphorus,carbon dioxide.

Hazardous Polymerization: Will not occur.

11.TOXICOLOGICAL INFORMATION

RTECS#:

CAS# 126-73-8: TC7700000

LD50/LC50:

CAS# 126-73-8: Inhalation, mouse: LC50 =1300 mg/m3; Inhalation, rat:LC50 =28 gm/m3/1H; Oral, mouse: LD50 = 1189 mg/kg; Oral, rat: LD50 =3 gm/kg; Skin, rabbit: LD50 = >3100 mg/kg.

Carcinogenicity:

Tributyl phosphate -

Not listed by ACGIH,IARC,NIOSH,NTP,or OSHA.

Other:

See actual entry in RTECS for complete information.

12.ECOLOGICAL INFORMATION

Date not yet available.

13.DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with federal, state, and local regulations

14.TRANSPORT INFORMATION

Proper shipping name: Tributyl phosphate

Classification data:

US DOT

No information available

IMO

Not regulated as a hazardous material.

IATA

Not regulated as a hazardous material.

RID/ADR

Not regulated as a hazardous material.

Canadian TDG

No information available.

15.REGULATORY INFORMATION

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: XN

Risk Phrases:

R 22 Harmful if swallowed.

Safety Phrases:

S 25 Avoid contact with eyes.

WGK (Water Danger/Protection)

CAS# 126-73-8: 2

Canada

CAS# 126-73-8 is listed on Canada's DSL/NDL List.

CAS# 126-73-8 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits

CAS# 126-73-8: OEL-AUSTRALIA:TWA 0.2 ppm (2.5 mg/m³)

OEL-BELGIUM:TWA 0.2 ppm (2.2 mg/m³)

OEL-DENMARK:TWA 0.2 ppm (2.5 mg/m³)

OEL-FINLAND:TWA 5 mg/m³;STEL 10 mg/m³;Skin

OEL-FRANCE:TWA 0.2 ppm (2.5 mg/m³)

OEL-THE NETHERLANDS:TWA 5 mg/m³

OEL-THE PHILIPPINES:TWA 5 mg/m³

OEL-RUSSIA:STEL 0.5 mg/m³;Skin

OEL-SWITZERLAND:TWA 0.2 ppm (2.5 mg/m³)

OEL-UNITED KINGDOM:TWA 5 mg/m³;STEL 5 mg/m³

OEL IN BULGARIA, COLOMBIA, JORDAN, KOREA check ACGIH TLV

OEL IN NEW ZEALAND, SINGAPORE, VIETNAM check ACGI TLV

US FEDERAL

TSCA

CAS# 126-73-8 is listed on the TSCA inventory.

16.OTHER INFORMATION

SDS Date/Revised: 4/20/2021

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