# Chemical Book India

ML		Chem	ical Safety	Data Shee	t MSDS / S	DS		
Triethyl phosphite SDS Revision Date:2024-04-25 Revision Number:1								
Section 1 Section 9	Section 2 Section 10	Section 3 Section 11	Section 4 Section 12	Section 5 Section 13	Section 6 Section 14	Section 7 Section 15	Section 8 Section 16	
SECTION 1: Identific Product identifier Product name: CAS:		ation of the substance/mixture and of the company/undertaking Triethyl phosphite 122-52-1						
Relevant identified uses of the substance or mixture and uses advised against								
Relevant identified uses:		For R&D use only. Not for medicinal, household or other use.						
Uses advised against:		none						
Company Ic	lentification							
Company:		Chemicalbook.in						
Address: Telephone:		5 vasavi Layout Basaveswara Nilayam Pragathi Nagar Hyderabad, India -500090 +91 9550333722						

# SECTION 2: Hazards identification

Classification of the substance or mixture

Flammable liquids, Category 3

#### GHS label elements, including precautionary statements

Pictogram(s)

Signal word Warning

## Hazard statement(s)

H226 Flammable liquid and vapour

### Precautionary statement(s)

### Prevention

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P240 Ground and bond container and receiving equipment.
P241 Use explosion-proof [electrical/ventilating/lighting/...] equipment.
P242 Use non-sparking tools.
P243 Take action to prevent static discharges.
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...

### Response

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse affected areas with water [or shower]. P370+P378 In case of fire: Use ... to extinguish.

### Storage

P403+P235 Store in a well-ventilated place. Keep cool.

## Disposal

P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

### Other hazards which do not result in classification

no data available

# SECTION 3: Composition/information on ingredients

#### Substance

Chemical name:	Triethyl phosphite
Common names and synonyms:	Triethyl phosphite
CAS number:	122-52-1
EC number:	204-552-5
Concentration:	100%

## **SECTION 4: First aid measures**

#### Description of necessary first-aid measures

#### If inhaled

Fresh air, rest.

#### Following skin contact

Remove contaminated clothes. Rinse skin with plenty of water or shower. Refer for medical attention .

#### Following eye contact

First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then refer for medical attention.

#### Following ingestion

Rinse mouth. Refer for medical attention .

#### Most important symptoms/effects, acute and delayed

no data available

## Indication of immediate medical attention and special treatment needed, if necessary

no data available

## **SECTION 5: Firefighting measures**

Suitable extinguishing media

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

#### Specific hazards arising from the chemical

Flammable. Gives off irritating or toxic fumes (or gases) in a fire. Above 54°C explosive vapour/air mixtures may be formed.

#### Special protective actions for fire-fighters

Use powder, foam, carbon dioxide. NO hydrous agents. NO water. In case of fire: keep drums, etc., cool by spraying with water. NO direct contact with water.

## **SECTION 6: Accidental release measures**

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

Personal protection: filter respirator for organic gases and vapours adapted to the airborne concentration of the substance. Ventilation. Collect leaking and spilled liquid in sealable containers as far as possible. Absorb remaining liquid in sand or inert absorbent. Then store and dispose of according to local regulations.

### Environmental precautions

Prevent further spillage or leakage if it is safe to do so. Do not let the chemical enter drains. Discharge into the environment must be avoided.

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

Collect and arrange disposal. Keep the chemical in suitable and closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

## SECTION 7: Handling and storage

#### Precautions for safe handling

NO open flames, NO sparks and NO smoking. Above 54°C use a closed system, ventilation and explosion-proof electrical equipment. Handling in a well ventilated place. Wear suitable protective clothing. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Use non-sparking tools. Prevent fire caused by electrostatic discharge steam.

### Conditions for safe storage, including any incompatibilities

Fireproof. Dry. Separated from acids and strong oxidants. See Chemical Dangers.

## SECTION 8: Exposure controls/personal protection

**Control parameters** 

### Occupational Exposure limit values

no data available

#### **Biological limit values**

no data available

#### Appropriate engineering controls

Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Set up emergency exits and the risk-elimination area.

## Individual protection measures, such as personal protective equipment (PPE)

#### Eye/face protection

Wear safety spectacles.

### Skin protection

Protective gloves.

### **Respiratory protection**

Use ventilation.

## Thermal hazards

no data available

## SECTION 9: Physical and chemical properties and safety characteristics

Physical state: clear liquid

Colour:	no data available
Odour:	no data available
Melting point/freezing point:	-112°C
Boiling point or initial boiling point and boiling range:	156°C
Flammability:	no data available
Lower and upper explosion limit/flammability limit:	no data available
Flash point:	52°C
Auto-ignition temperature:	no data available
Decomposition temperature:	no data available
pH:	no data available
Kinematic viscosity:	no data available
Solubility:	In water: slightly soluble
Partition coefficient n- octanol/water:	no data available
Vapour pressure:	3.19mmHg at 25°C
Density and/or relative density:	0.969
Relative vapour density:	no data available
Particle characteristics:	no data available

## SECTION 10: Stability and reactivity

Reactivity

no data available

#### Chemical stability

no data available

### Possibility of hazardous reactions

Decomposes on heating and on burning. This produces toxic fumes including phosphorus oxides. Reacts with water, acids and strong oxidants. This generates fire and explosion hazard.

## Conditions to avoid

no data available

#### Incompatible materials

no data available

## Hazardous decomposition products

no data available

## SECTION 11: Toxicological information

Acute toxicity Oral: no data available Inhalation: no data available Dermal: no data available

## Skin corrosion/irritation

no data available

### Serious eye damage/irritation

no data available

## Respiratory or skin sensitization

no data available

### Germ cell mutagenicity

no data available

#### Carcinogenicity

no data available

#### Reproductive toxicity

no data available

#### STOT-single exposure

The substance and the vapour are irritating to the eyes and skin.

#### STOT-repeated exposure

no data available

### Aspiration hazard

No indication can be given about the rate at which a harmful concentration of this substance in the air is reached on evaporation at 20°C.

## SECTION 12: Ecological information

Toxicity

Toxicity to fish: no data available

Toxicity to daphnia and other aquatic invertebrates: no data available

Toxicity to algae: no data available Toxicity to microorganisms: no data available

#### Persistence and degradability

no data available

## Bioaccumulative potential

no data available

## Mobility in soil

no data available

## Other adverse effects

no data available

# SECTION 13: Disposal considerations

## Disposal methods

## Product

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

## Contaminated packaging

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

## SECTION 14: Transport information

## **UN Number**

ADR/RID: UN2323 (For reference only, please check.)

IMDG: UN2323 (For reference only, please check.) IATA: UN2323 (For reference only, please check.)

## **UN Proper Shipping Name**

ADR/RID: TRIETHYL PHOSPHITE (For reference only, please check.) IMDG: TRIETHYL PHOSPHITE (For reference only, please check.) IATA: TRIETHYL PHOSPHITE (For reference only, please check.)

## Transport hazard class(es)

ADR/RID: 3 (For reference only, please check.) IMDG: 3 (For reference only, please check.) IATA: 3 (For reference only, please check.)

## Packing group, if applicable

ADR/RID: III (For reference only, please check.) IMDG: III (For reference only, please check.) IATA: III (For reference only, please check.)

## Environmental hazards

ADR/RID: No IMDG: No IATA: No

#### Special precautions for user

no data available

### Transport in bulk according to IMO instruments

no data available

## **SECTION 15: Regulatory information**

Safety, health and environmental regulations specific for the product in question

European Inventory of Existing Commercial Chemical Substances (EINECS)

Listed.

## EC Inventory

Listed.

United States Toxic Substances Control Act (TSCA) Inventory

Listed.

China Catalog of Hazardous chemicals 2015

Listed.

New Zealand Inventory of Chemicals (NZIoC)

Listed.

(PICCS)

Listed.

Vietnam National Chemical Inventory

Listed.

IECSC)

Listed.

Korea Existing Chemicals List (KECL)

Listed.

## SECTION 16: Other information

#### Abbreviations and acronyms

CAS: Chemical Abstracts Service

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

RID: Regulation concerning the International Carriage of Dangerous Goods by Rail

IMDG: International Maritime Dangerous Goods

IATA: International Air Transportation Association

TWA: Time Weighted Average

STEL: Short term exposure limit

LC50: Lethal Concentration 50%

LD50: Lethal Dose 50%

EC50: Effective Concentration 50%

#### References

IPCS - The International Chemical Safety Cards (ICSC), website: http://www.ilo.org/dyn/icsc/showcard.home

HSDB - Hazardous Substances Data Bank, website: https://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm

IARC - International Agency for Research on Cancer, website: http://www.iarc.fr/

eChemPortal - The Global Portal to Information on Chemical Substances by OECD, website: http://www.echemportal.org/echemportal/index?pageID=O&request\_locale=en

CAWEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple

ChemIDplus, website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp

ERG - Emergency Response Guidebook by U.S. Department of Transportation, website: http://www.phmsa.dot.gov/hazmat/library/erg

Germany GESTIS-database on hazard substance, website: http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index-2.jsp

ECHA - European Chemicals Agency, website: https://echa.europa.eu/

### Other Information

Explosive limits are unknown in literature, although the substance is combustible and has a flash point < 61°C.Do NOT use in the vicinity of a fire or a hot surface, or during welding.

Disclaimer: 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. We as supplier shall not be held liable for any