

Triethyl phosphite

SAFETY DATA SHEET

SDS

Henan Sinotech Import&Export Corporation Limited

according to GHS(fifth revised edition)

Section 1 - Product and Company Identification

Trade Name: Triethyl Phosphite

Chemical Name: Triethyl Phosphite

Synonym: Phosphorous Acid, Triethyl Ester; Triethoxyphosphine

CAS#:

122-52-1

EC#:

204-552-5

Supplier: Henan Sinotech Import&Export Corporation Limited

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Section 2 –Hazards Identification

Hazard class and label elements of the substance according to GHS(the fifth revised edition):

GHS hazard class

Physical hazard(s)	Flammable liquids	category3
Health hazard(s)	Acute toxicity, oral	category5
	Acute toxicity, dermal	category5
	Skin corrosion/irritation	category2
	Serious eye damage/eye irritation	category2A
	Acute toxicity, inhalation	category4
Environmental hazard(s)	Hazardous to the aquatic environment, acute hazard	category3
	Hazardous to the aquatic environment, long-term hazard	category3

Pictogram



Signal

Warning

Hazard statement(s)

H226 Flammable liquid and vapour

H303 May be harmful if swallowed

H313 May be harmful in contact with skin
H315 Causes skin irritation
H319 Causes serious eye irritation
H332 Harmful if inhaled
H402 Harmful to aquatic life
H412 Harmful to aquatic life with long lasting effects

Precautionary statements

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.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response

P312 Call a POISON CENTER/doctor/if you feel unwell.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.

Storage

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

Disposal

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

Section 3 – Composition/Information on Ingredients

Component	Concentration(%)	CAS No.	EC No.
Triethyl phosphite	100	122-52-1	204-552-5

Section 4 – First Aid Measures

After skin contact

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

After eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a

	physician
After ingestion	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
After inhalation	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

Section 5 – Fire Fighting Measures

Hazardous products of combustion	Carbon oxides, Phosphorus oxides
Extinguishing method	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special protective equipment	Wear self contained breathing apparatus for fire fighting if necessary.

Section 6 – Accidental Release Measure

Personal protective measures	Use personal protective equipment. Ensure adequate ventilation. Avoid breathing vapors, mist or gas. Evacuate personnel to safe areas.
Environmental protective measures	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Methods for taking in 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

Handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.
Storage	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.

Section 8 – Exposure Controls/Personal Protection

Engineering Controls	Safety shower and eye bath. Mechanical exhaust required.
Respiratory protection	Use a full-face supplied air respirator.
Eye protection	Wear chemical goggles.
Hand Protection	Wear impervious chemical resistant gloves
Body protection	Protective work clothing

Section 9 – Physical and Chemical Properties

Appearance and properties: No data available	Odor: No data available
Odor threshold: No data available	pH value: No data available
Melting point/freezing point(°C): -112	Initial boiling point and boiling range(°C): No data available
Flash point(°C)(closed cup): 43-44	Evaporation Rate: No data available
Flammability: No data available	Upper explosive limit%(V/V): 42.5
Lower explosive limit%(V/V): 3.75	Vapor pressure(MPa): No data available

Vapor density(g/mL): No data available

Relative density(g/cm³): 0.96

Solubility: No data available

Octanol / water partition coefficient: No data available

Auto-ignition temperature(°C): No data available

Decomposition temperature(°C): No data available

Kinematic viscosity (mm²/s): No data available

Section 10 – Stability and Reactivity

Reactive No data available

Chemical stability Stable under the condition recommended.

Possibility of hazardous reactions No data available

Avoid conditions Heat, flames and sparks. Moisture.

Incompatible materials Oxidizing agents, Acids, Bases, Water.

Hazardous decomposition products No data available

Section 11 – Toxicological Information

Acute toxicity: LD₅₀(rat,Oral) 1840mg/kg;LD₅₀(rat,Dermal)2800 mg/kg

Skin corrosion/irritation: Irritating to skin.

Serious eye damage/eye irritation: Irritating to eye.

Respiratory or skin sensitization: No data available.

Germ cell mutagenicity: No data available

Carcinogenicity: Triethyl phosphite (CAS No. 122-52-1) : No data available;

Reproductive toxicity: No data available

Specific target organ toxicity – single exposure: No data available

Specific target organ toxicity – repeated exposure: No data available

Aspiration hazard: No data available

Section 12 – Ecological Information

Toxicity: 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

Property of waste: No data available

Methods of disposal: Dispose of in a manner consistent with federal, state, and local regulations.

Precautions of disposal: No data available.

Section 14 - Transport Information

UN number: 2323

UN proper shipping name: TRIETHYL PHOSPHITE

Transportation primary hazard class: 3

Transportation secondary hazard class:

Packing group: III

Section 15 - Regulatory Information

Component	CHINA	TSCA	ENCS	EINECS
Triethyl phosphite	√	√	√	√

Note 1:

CHINA - China Inventory of Existing Chemical Substances (IECSC)

TSCA - United States Inventory of Toxic Substances Control Act Chemical Substances (TSCA)

ENCS - Japan Existing and New Chemical Substances (ENCS)

EINECS - European Inventory of Existing Commercial Chemical Substances (EINECS)

Note 2:

"√" Indicates that the substance included in the regulations

"-" That no data or included in the regulations

Section 16 - Additional Information

Other information: This Safety Data Sheet (SDS) was prepared according to UN GHS (the fifth revised edition) and the information included is based on the present state of our knowledge. However, the information is provided without any warranty, express or implied, regarding its correctness and is only for users reference. Users should make their independent judgement of suitability of these information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.