

Safety Data Sheet
According to Regulation (EU) No. 1907/2006, Annex II,
Amended by REGULATION (EU) No 2015/830

According to Regulation (EU) No. 1272/2008
trimethyl phosphate

SDS Record Number: RTMS-TCO-001-100164EN

Printing date: 29/03/2012

Version 1.2

Revision date: 25/01/2016

1 Identification of the substance and of the company/undertaking

1.1 Product identifier:

Identification on the label/Trade name: trimethyl phosphate
Product code: Not available.
Identification of the product: CAS# 512-56-1; EC# 208-144-8
Index Number: Not available
REACH registration No.: Not available

1.2 Relevant identified uses of the substance and uses advised against:

1.2.1 Identified uses:

Mainly used as solvent and extractant for medicine, pesticide.

1.2.2 Uses advised against:

Not available.

1.3 Details of the supplier of the safety data sheet:

Supplier(Only representative): -
Supplier(Manufacturer): YANGZHOU YANGTAI CHEMICAL Co., LTD.
Address: 228,NORTH JIEFANG ROAD,GUANGLING DISTRICT,YANGZHOU,CHINA
Contact person(E-mail): chenjie@yangtaichem.com
Telephone: +86-514-87200419
Fax: +86-514-87204105

1.4 Emergency telephone Number:

+86-514-87200419

Available outside office hours?

YES

NO

2 Hazards Identification

2.1 Classification of the substance

2.1.1 Classification:

The substance is classified as following according to REGULATION (EC) No 1272/2008::

REGULATION (EC) No 1272/2008	
Hazard classes Hazard categories	Hazard statement
Acute Tox. 4	H302
Carc. 2	H351

For full text of H- phrases: see section 2.2.

2.1.2 The most important adverse effects

2.1.2.1 The most important adverse physicochemical effects:

Not applicable.

2.1.2.2 The most important adverse human health effects:

Harmful if swallowed. Suspected of causing cancer.

2.1.2.3 The most important adverse environmental effects:

Not applicable.

2.2 label elements

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Hazard Pictograms:



Signal Word(S):

Warning

Hazard Statement:

H302 Harmful if swallowed

H351 Suspected of causing cancer

Precautionary Statement Prevention:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary Statement Response:

P301 + P312 IF SWALLOWED: Call a POISON CENTER/doctor/.../if you feel unwell.

P308 + P313 IF exposed or concerned: Get medical advice/attention.

P330 Rinse mouth.

Precautionary Statement Storage:

P405 Store locked up.

Precautionary Statement Disposal:

P501 Dispose of contents/container to local/regional/national/ international regulation.

2.3 Other hazards

Not available (PBT,vPvB, Substance is an endocrine disruptor etc.)

3 Composition/information on ingredients

Substance/Mixture: Substance

Ingredient(s):

Chemical Name	Index number.	CAS No.	EC No.	Concentration
trimethyl phosphate	N/A	512-56-1	208-144-8	99%MIN

4 First aid measures

4.1 Description of first aid measures:

In all cases of doubt, or when symptoms persist, seek medical attention.

4.1.1 In case of inhalation:

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

4.1.2 In case of skin contact:

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

4.1.3 In case of eyes contact:

In case of contact, immediately flush eyes with copious amounts of Water for at least 15 minutes.

4.1.4 In case of ingestion:

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

Harmful if swallowed. Suspected of causing cancer.

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4.3 Indication of any immediate medical attention and special treatment needed

If skin irritation or rash occurs, get medical advice/attention.

5 Fire-Fighting measures

5.1 Extinguishing media:

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media: Not available.

5.2 Special hazards arising from the substance or mixture

Carbon oxides, Oxides of phosphorus.

5.3 Advice for fire-fighters:

Wear self-contained breathing apparatus (positive pressure, if available) and full protective clothing.

6 Accidental release measures

6.1 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.

6.2 Environmental Precautions:

Do not allow material to be released to the environment without proper governmental permits.

6.3 Methods for Containment and Cleaning up:

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections:

See Section 7 for information on safe handling.

See section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

7 Handling and storage

7.1 Precautions for safe handling:

7.1.1 Protective measures:

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Normal measures for preventive fire protection.

7.1.2 Advice on general occupational hygiene:

Do not eat, drink and smoke in work areas. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.

7.2 Conditions for safe storage, including any incompatibilities:

Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

7.3 Specific end use(s):

Not applicable.

8 Exposure control/personal protection

8.1 Control parameters:

8.1.1 Occupational exposure limits: Not available.

8.1.2 Appropriate engineering controls:

Handle in accordance with good industrial hygiene and safety practice. Wash hands during breaks and at the end of the work. Avoid contact with the eyes and skin.

8.1.3 DNEL/DMEL and PNEC-Values: Not available.

8.2 Exposure controls

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8.2.1 Appropriate engineering controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

8.2.2 Individual protection measures, such as personal protective equipment:

Eye/face protection	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.
Hand protection	Wear appropriate protective gloves to prevent skin exposure.
Body protection	Wear appropriate protective clothing to prevent skin exposure.
Respiratory protection	NIOSH/MSHA-approved respirator.
Thermal hazards	A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

8.2.3 Environmental exposure controls:

Avoid discharge into the environment.
According to local regulations, Federal and official regulations.

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance:	Liquid
Colour:	clear colorless to slightly yellow
Odour:	pleasant odor
Odour threshold:	Not available
pH:	Not available
Melting point/range (°C):	-46°C
Boiling point/range (°C) :	197°C
Flash point (°C) :	148.9°C
Evaporation rate:	Not available
Flammability (solid, gas);	Not available
Ignition temperature (°C) :	Not available
Upper/lower flammability/explosive limits:	Not available
Vapour pressure (20°C) :	0.85 mm Hg @ 25°C
Vapour density:	6.28 (air=1)
Relative Density :	1.97(19.5°C)
Bulk density (kg/m3) :	Not available
Water solubility (g/l) at 20°C :	500 g/l
n-Octanol/Water (log Po/w) :	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity, dynamic (mPa s) :	Not available
Explosive properties:	Not available
Oxidising properties:	Not available

9.2. Other information:

Fat solubility(solvent– oil to be specified) etc:	Not available
Surface tension:	Not available
Dissociation constant in water(pKa):	Not available
Oxidation-reduction Potential:	Not available

10 Stability and reactivity

10.1 Reactivity:

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The substance is stable under normal storage and handling conditions.

10.2 Possibility of hazardous reactions:

No dangerous reactions known.

10.3 Conditions to avoid:

Incompatible materials, ignition sources, excess heat.

10.4 Incompatible materials:

Strong oxidizing agents, strong bases, carbon steel.

10.5 Hazardous decomposition products:

Carbon oxides, Oxides of phosphorus.

11 Toxicological information

11.1 Information on toxicological effects

Acute toxicity:

LD50(Oral, Rat): 840 mg/Kg

LD50(Dermal Rabbit): 2830µL/kg

LD50(Oral, Mouse): 1470mg/Kg

Skin corrosion/Irritation: Not classified

Serious eye damage/irritation: Not classified

Respiratory or skin sensitization: Not classified

Germ cell mutagenicity: Not classified

Carcinogenicity: Suspected of causing cancer

Reproductive toxicity: Not classified

STOT- single exposure: Not classified

STOT-repeated exposure: Not classified

Aspiration hazard: Not classified

12 Ecological information

12.1 Toxicity:

Acute toxicity		Time	Species	Method	Evaluation	Remarks
LC50	N/A	96h	Fish	OECD 203	N/A	N/A
EC50	N/A	48h	Daphnia	OECD 202	N/A	N/A
EC50	N/A	72h	Algae	OECD 201	N/A	N/A

12.2 Persistence and degradability: No data available.

12.3 Bioaccumulative potential: No data available.

12.4 Mobility in soil: Not available.

12.5 Results of PBT&vPvB assessment: Not applicable.

12.6 Other adverse effects: Do not empty into drains.

13 Disposal considerations

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13.1 Waste treatment methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

14 Transport information

	<i>Land transport (ADR/RID)</i>	<i>Sea transport (IMDG)</i>	<i>Air transport (ICAO/IATA)</i>
UN-Number:	Not regulated	Not regulated	Not regulated
UN Proper shipping name:	Not regulated	Not regulated	Not regulated
Transport hazard Class:	Not regulated	Not regulated	Not regulated
Packaging group:	Not regulated	Not regulated	Not regulated
Environmental hazards:	Not regulated	Not regulated	Not regulated
Special precautions for user:	See section 2.2	See section 2.2	See section 2.2
Transport in bulk according to Annex II of MARPOL and the IBC Code	Not regulated	Not regulated	Not regulated

15 Regulation information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Relevant information regarding authorization: Not applicable.

Relevant information regarding restriction: Not applicable.

Other EU regulations: Employment restrictions concerning young person must be observed. For use only by technically qualified individuals.

Other National regulations: Not applicable

15.2 Chemical Safety Assessment has been carried out? YES NO

16 Other information

16.1 Indication of changes Version 1.2 Amended by EU No 2015/830

16.2 Training instructions:

Not applicable.

16.3 Further information:

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

16.4 Notice to reader:

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees.

This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.