1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : 10-Methacryloyloxydecyl dihydrogen phosphate

ChemWhat Code : 1211298
Brand : ChemWhat
REACH No. : A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.
CAS-No. : 85590-00-7

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company : Watson International Ltd
Room 1518, Asia Pacific Plaza,
NO. 18, Z haofeng Road, Kunshan City,
Jiangsu Province, China. 215332

Telephone :+86-512-81867260/70/80
Fax :+86-512-81867260/70/80 - 3

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
May be harmful if swallowed, Oral (Category 1), H303
Skin Corrosion (Category 1B), H316
Eye Irritation (Category 2), H320
May cause respiratory irritation, H335
For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word: Warning

Hazard statement(s)
H303 May be harmful if swallowed.
H316 May cause a skin irritation.
H320 Causes eye irritation.
H335 May cause respiratory irritation.

Precautionary statement(s)
P233 Keep container tightly closed.
P235 Keep cool.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P262 Do not get in eyes, on skin or on clothing.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.

P281	Use personal protective equipment as required.
P301 + P312 + P330	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do not induce vomiting.
P303 + P361 + P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing, rinse skin with water/shower.
P304 + P340 + P310	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.
P305 + P351 + P338 + P310	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
P303	Wash contaminated clothing before reuse.
P390	Absorb spillage to prevent material damage.
P430 + P233	Store in well-ventilated space. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Possible sensitizer.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms	:	12-methacryloyldodeylphosphonate
Formula	:	C14H27O6P
Molecular weight	:	322.33 g/mol
CAS-No.	:	85590-00-7
EC-No.	:	

Hazardous components

Component	Classification	Concentration
10-Methacryloyloxydecyl dihydrogen phosphate		
	Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3; H303, H316, H320, H335	95 - 100%

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area.

If inhaled

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

In case of skin contact

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

In case of eye contact

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

If swallowed

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed
No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Water, CO2, foam, dry chemical.

5.2 Special hazards arising from the substance or mixture
No data available

5.3 Advice for firefighters
Fire fighters should wear NIOSH/MSHA approved pressure demand self-contained breathing apparatus. Decontaminate or discard any clothing that may contain chemical residues.

5.4 Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.
For personal protection see section 8.

6.2 Environmental precautions
Avoid runoff to waterways and sewers.

6.3 Methods and materials for containment and cleaning up
Promptly absorb spill. Remove sources of ignition. Cover drains to prevent entry into waterways. Wear personal protective equipment (clothing and gloves) when handling spilled materials. Keep in suitable, closed containers for disposal. Wear suitable protective equipment.

6.4 Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with eyes and skin. Avoid inhalation of vapor or mist. Keep container closed. Use with adequate ventilation. Wash thoroughly after handling.
For precautions see Section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Store under 2-8 °C away from incompatible materials identified in the Stability and Reactivity Section.

General (mechanical) room ventilation is expected to be satisfactory for use at room temperature. Special, local ventilation is recommended at points where vapors generated at high temperatures may be vented to the workplace air.

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection
Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin, hands and body protection
Chemical-resistant clothing is required. Protective gloves are recommended (4H, butyl, neoprene, nitrile of PVC-coated).

Respiratory protection
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. If a respirator is used, a NIOSH/MSHA approved respirator with organic vapor/dust-mist fume filters represents the minimum level of respiratory protection.

Control of environmental exposure
Do not let product enter drains.

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9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: liquid
b)	Physical State	Very viscous liquid
c)	Color	Light yellow/yellow
d)	Odor	None
e)	pH	No data available
f)	Melting point	No data available
g)	Boiling point	No data available
h)	Flash point	>200°C (>392°F) estimated
i)	Evaporation rate	No data available
j)	Flammability (solid, gas)	No data available
k)	Vapour pressure	No data available
l)	Vapour density	Heavier than air
m)	Relative density	No data available
n)	Water solubility	Insoluble
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity

No data available

10.2 Chemical stability

May polymerize

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

Incompatible with strong oxidizing, strong reducers, free radical initiators, inert gases, oxygen scavengers.

10.5 Incompatible materials

Strong oxidizing agents, Free radical initiators

10.6 Hazardous decomposition products

Acrid smoke-fumes/carbon monoxide/carbon dioxide
And perhaps other toxic vapors may be released during a fire involving this product.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
No data available

Inhalation: No data available

Dermal: No data available

No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.

Germ cell mutagenicity
No data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

No data available

Specific target organ toxicity - single exposure
Inhalation - May cause respiratory irritation.

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

12.1 Toxicity
No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Harmful to aquatic life.

No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging
Dispose of as unused product.

14. RANSPORT INFORMATION

DOT (US)
Not dangerous goods

IMDG
Not dangerous goods

IATA
Not dangerous goods

15. EGULATORY INFORMATION

REACH No. : A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

SARA 302 Components
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Acute Health Hazard

Massachusetts Right To Know Components
No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
10-Methacryloyloxydecyl dihydrogen phosphate	85590-00-7	

New Jersey Right To Know Components

	CAS-No.	Revision Date
10-Methacryloyloxydecyl dihydrogen phosphate	85590-00-7	

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

GLOSSARY OF TERMS:

ACGIH:	American Conference of Governmental industrial hygienists
DOT:	Department of Transportation
OSHA	Occupational Safety and Health Administration
IMDG	International Maritime Dangerous Goods
ICAO	International Civil Aviation Organization
IATA	International Air Transport Association
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
HAPS	Hazardous Air Pollutants
EINECS	European Inventory of Existing Commercial Substances
PEL:	Permissible Exposure Limit
ppm:	Parts per Million
SARA:	Superfund Amendments and Reauthorization Act
STEL:	Short-term Exposure Limit
TSCA:	Toxic Substance Control Act
TWA:	Time-weighted Average
WHMIS:	Workplace Hazardous Materials Identification System (Canadian)

Full text of the H-Statements referred to under Sections 2 and 3

H303 May be harmful if swallowed,
H316 May cause a skin irritation
H320 Causes eye irritation
H335 May cause respiratory irritation

Further information

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