

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Chemical Name: 12-methacryloyldodecylphosphonate
Synonyms: Estenia Opaque Primer; 10-Methacryloyloxydecyl dihydrogen phosphate; Mono-10-methacryloyloxydecyl phosphate; MADDP; 10-MDP
Formula: C₁₄H₂₇O₆P
Supplier: Watson International Ltd
Telephone No: 86-512-81867280
Fax No: 86-512-81867270

2. COMPOSITION/INFORMATION ON INGREDIENTS

No.	Name
1.	12-methacryloyldodecylphosphonate

No.	CAS No.	R Phrases	Concentration	Classification
1.	85590-00-7	R36/R37/R38	95.0% (w/w)	Xi
2.		-	5.0% (w/w)	Ik
3.				

Legend: Tx = Very Toxic, C = Corrosive, Xn = Harmful, Xi = Irritant, Ik = No Classification Required, E = Explosive, O = Oxidizing, Fx = Extremely Flammable, F = Very Flammable, Fo = Flammable, N = Dang. To the Environment, M = Genotoxic, A = Sensitizing, K = Carcinogenic, R = Causes birth defects, H = skin absorption

3. HAZARDS IDENTIFICATION

Hazard Statements:

H315: Causes skin irritation.
H319: Causes serious eye irritation.
H335: May cause respiratory irritation.

Precautionary Statements:

P261: Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Potential Health Effects:

Inhalation: May be harmful if inhaled. Causes respiratory tract irritation.
Skin: May be harmful if absorbed through skin. Causes skin irritation.
Eyes: Causes eye irritation.
Ingestion: May be harmful if swallowed.

4. FIRST-AID MEASURES

General: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
Inhalation: If breathed in, move person into fresh air. If not breathing, give artificial

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	respiration. Consult a physician.
Skin Contact:	Wash off with soap and plenty of water. Consult a physician.
Eye Contact:	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Swallow:	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special protective equipment for firefighters	Wear self contained breathing apparatus for firefighting if necessary.
Hazardous combustion products	Hazardous decomposition products formed under fire conditions. - Carbon oxides

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.
Environmental Precautions:	Do not let product enter drains.
Methods for Cleaning Up:	Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Handling:	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Normal measures for preventive fire protection.
Storage:	Keep container tightly closed in a dry and well-ventilated place, away from light. Recommended storage temperature: 2 - 8 °C.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory protection:	Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Hand protection:	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
Eye protection:	Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as

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NIOSH (US) or EN 166(EU).

Skin and body protection:

Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures:

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Liquid
Color:	Light yellow
pH:	No data available.
Boiling Point/Boiling Range:	No data available.
Melting Point/Melting Range:	No data available
Flash Point:	No data available.
Ignition temperature:	No data available.
Lower explosion limit:	No data available.
Upper explosion limit:	No data available.
Vapour pressure:	No data available.
Density:	No data available.

10. STABILITY AND REACTIVITY

Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions:	No data available.
Conditions to avoid:	No data available.
Materials to avoid:	No data available.
Hazardous decomposition products:	No data available.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:	No data available.
Irritation:	No data available

12. ECOLOGICAL INFORMATION

Mobility:	No data available.
Degradability:	No data available.
Accumulation:	No data available.

13. DISPOSAL CONSIDERATIONS

Product and Waste:	Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.
Containers:	Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US):	Not dangerous goods.
IMDG:	Not dangerous goods.
IATA:	Not dangerous goods.

15. REGULATORY INFORMATION

X_i –Irritant

R- PHRASES

- R36 – Irritating to eye.
- R37 – Irritating to the respiratory system.
- R38 – Irritating to skin.

S- PHRASES

- S26 – In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
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16. OTHER INFORMATION

DISCLAIMER

The information in the MSDS relates to this specific material. If the product is used as a component in any other product, this MSDS may not be valid. The information contained was obtained from sources which we believe are reliable. The information is provided without any warranty, expressed or implied, regarding its correctness.

BY: Watson International Ltd

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