

DM Healthcare Products, Inc.

Material Safety Data Sheet

Revised Date: 02/20/15
Replaces Date: New

MSDS ID: H1218

1. General Information

Product Code: H1218
Product Description: 10-Methacryloxydecyl Dihydrogen Phosphate
Product Category: Dental Materials Adhesion Promoter

Company: DM Healthcare Products, Inc.
10080 Willow Creek Rd.
San Diego, CA 92131

Telephone: 858-348-1122

Emergency phone number (spill, leak, fire, exposure or accident):
US Domestic 800-424-9300 (CHEMTREC)
International +1 703-527-3887

2. Composition Information

COMPONENT	CAS#	CONCENTRATION
2-PROPENOIC ACID, 2-METHYL-, REACTION PRODUCTS WITH 1,10-DECANEDIOL AND PHOSPHOROUS OXIDE (P2O5)	1207736-18-2	~ 100%

3. Hazards Identification

EMERGENCY OVERVIEW:

CAUTION
EYE IRRITANT
HARMFUL IF SWALLOWED
SKIN SENSITIZER
Very viscous liquid

HMIS ratings (scale 0 – 4)

Hazardous Materials
Identification System
Health (acute effects) = 1
Flammability = 1
Physical = 0
Personal Protection = B

POTENTIAL HEALTH EFFECTS:

EFFECTS OF SINGLE ACUTE OVEREXPOSURE:

INHALATION: Short-term harmful health effects are not expected from vapor generated at ambient temperature. Vapors and/or aerosols that may be formed at elevated temperatures may be irritating to eyes and respiratory tract. Avoid breathing vapors or mists.

EYE CONTACT: May cause eye irritation. Contact with eyes causes redness and discomfort that is transient.

SKIN CONTACT: Brief contact may cause slight irritation with itching and local redness. Repeated and/or prolonged contact may cause skin sensitization.

SKIN ABSORPTION: No evidence of harmful effects from available information.

SWALLOWING: Ingestion may cause abdominal discomfort, nausea, vomiting, and diarrhea.

4. First Aid Measures

SWALLOWING: Do not induce vomiting. Give person large amounts of water. Get immediate medical attention.

SKIN CONTACT: Wash area with soap and water. Remove contaminated clothing and shoes. Wash or clean before reuse.

INHALATION: Remove person to fresh air. If breathing has stopped, perform artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: Flush with water for 15 minutes. Get immediate medical attention.

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NOTES TO PHYSICIAN:

There is no specific antidote. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

5. Fire and Explosion Hazard Data

FLASH POINT (method): > 200°C (> 392°F) estimated

EXTINGUISHER METHOD: Water, CO₂, foam, dry chemical

SPECIAL FIRE-FIGHTING PROCEDURES:

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

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Do not enter fire area without proper protection. See Section 10, Reactivity Data, for decomposition products possible. Fight fire from safe distance and protected location. Heat/impurities may increase temperature/build pressure/rupture closed containers, spreading fire, increasing risk of burns/injuries. Water may be ineffective in firefighting due to low solubility. Use water spray/fog for cooling. Pressure relief system may plug with solids, increasing risk of overpressure.

6. Accidental Release Measures

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

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.

PERSONAL PRECAUTIONS:

Wear suitable protective equipment.

ENVIRONMENTAL PRECAUTIONS:

May be toxic to aquatic life. Avoid runoff to waterways and sewers.

7. Handling and Storage

HANDLING: Avoid contact with eyes.
Keep container closed.
Use with adequate ventilation.
Wash thoroughly after handling.

VENTILATION: 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.

STORAGE: Store at room temperature away from incompatible materials identified in the *Stability and Reactivity Section*. If catalyzed, store at 5°C.

8. Exposure Controls and Personal Protection Measures

EXPOSURE LIMITS:

<u>Component</u>	<u>Type</u>	<u>Value</u>	<u>Remarks</u>
Proprietary Polymer	TWA (skin) OSHA	-0- ppm	None established
	STEL (skin) ACGIH	-0- ppm	None established
	TWA (skin) ACGIH	-0- ppm	None established

PERSONAL PROTECTION:

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- Respiratory: 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.
- Hands: Protective gloves are recommended (4H, butyl, neoprene, nitrile or PVC-coated).
- Eyes: Safety glasses, goggles, or face shields are required.
- Skin: Chemical-resistant clothing.

OTHER PROTECTIVE EQUIPMENT:

Wear disposable protective clothing to facilitate recovery of any materials spilled.

ENGINEERING CONTROLS:

Ventilation:

Local Exhaust:

Fume hood at point of generation with sufficient exhaust to remove material from breathing zone.

EXPOSURE LIMITS:

9. Physical / Chemical Characteristics

APPEARANCE:

Physical State:	Very viscous liquid
Color:	Light yellow/rose
Odor:	None

OTHER PROPERTIES:

Boiling Point:	Not determined
Melting Point:	Not determined
pH:	Not applicable
Specific Gravity (H ₂ O=1):	Not determined
Vapor Pressure:	Not determined
Vapor Density (Air=1):	Heavier than air.
Solubility in water:	Insoluble
Evaporation rate (BuAc=1):	< 1
Percent volatile (weight):	Not determined
Percent volatile (volume):	Not determined
Volatile organic content:	Not determined

10. Reactivity Hazard Data

STABILITY:

Stable at recommended storage conditions.

CONDITIONS TO AVOID:

Elevated temperatures in the presence of initiators.

INCOMPATIBLE MATERIALS:

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

HAZARDOUS DECOMPOSITION PRODUCTS:

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

HAZARDOUS POLYMERIZATION:

May occur.

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11. Toxicological Information

SWALLOWING:

Acute effects: May cause nausea, abdominal pain, vomiting, headache, dizziness, shortness of breath, weakness, leg cramps, restlessness, confusion, drunken behavior, visual disturbances, drowsiness, coma, and death. There may be a delay of up to forty-eight hours before the onset of symptoms.

Test results: Acute Toxicity: Toxicological testing has not been performed with this material.
Chronic Toxicity: Toxicological testing has not been performed with this material.

SKIN ABSORPTION:

Acute effects: No evidence of harmful effects.

Test results: Acute Toxicity: Toxicological testing has not been performed with this material.
Chronic Toxicity: Toxicological testing has not been performed with this material.

INHALATION:

Acute effects: Short-term harmful health effects are not expected from vapor generated at ambient temperature.

Test results: Acute Toxicity: Toxicological testing has not been performed with this material.
Chronic Toxicity: Toxicological testing has not been performed with this material.

SKIN CONTACT:

Acute effects: Causes moderate irritation. Causes local discomfort, redness, possibly slight swelling, and scaling. The effects of repeated exposure may cause sensitization and allergic skin reaction.

Test results: Acute Toxicity: Toxicological testing has not been performed with this material.
Chronic Toxicity: Toxicological testing has not been performed with this material.

EYE CONTACT:

Acute effects: May cause irritation. Causes discomfort, pain, excessive blinking, tear production and, marked excessive redness and swelling of the conjunctivae. Corneal injury may occur. Corneal injury may be severe, extensive and, if not treated promptly, could result in permanent impairment.

Test results: Acute Toxicity: Toxicological testing has not been performed with this material.
Chronic Toxicity: Toxicological testing has not been performed with this material.

SENSITIZATION:

Test results: Acute Toxicity: Toxicological testing has not been performed with this material.
Chronic Toxicity: Toxicological testing has not been performed with this material.

MUTAGENICITY:

Genetic toxicity

(in vitro): Acute Toxicity: Toxicological testing has not been performed with this material.
Chronic Toxicity: Toxicological testing has not been performed with this material.

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12. Ecological Information

POTENTIAL EFFECT ON ENVIRONMENT: Do not allow to enter drains, sewers or watercourses.
MOBILITY: Insoluble
POTENTIAL TO BIOACCUMULATE: Unknown
AQUATIC TOXICITY: Unknown

13. Disposal Considerations

RCRA WASTE CLASSIFICATION: N/A
GENERAL: Incinerate in a furnace, where permitted, following appropriate local, state, and federal regulations.
PACKAGING: Completely discharge containers. Observe local, state, and federal regulations

14. Transport Information

Not a hazardous material for transportation.

US DOT CLASSIFICATION: Not regulated
CANADIAN TDG SURFACE: Not regulated
IMDG CLASSIFICATION:
ICAO CLASSIFICATION:
IATA CLASSIFICATION: Not regulated

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Additional transportation system information can be obtained through an authorized safety officer. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

15. Regulatory Information

CALIFORNIA PROPOSITION 65:

WARNING: This product contains the following chemicals that are known to the State of California to cause cancer, birth defects or other reproductive harm.
Unless a concentration is specified in Section 2 of the MSDS, the below chemical/s are present in trace amounts

COMPONENT	CAS NUMBER
None	

TSCA INVENTORY STATUS: Not listed.

TSCA 12(b) EXPORT NOTIFICATION: This material does not contain 12(b) regulated chemicals.

CERCLA REGULATED CHEMICALS: This material does not contain any CERCLA regulated chemicals.
RQ's: None

SARA 302 EHS CHEMICALS: No extremely hazardous chemicals present.

SARA 313 CHEMICALS: This material contains no reportable chemicals above de minimus levels.

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SARA 311/312 HAZARD CLASS: There are no known hazards associated with this material.

HAPS: There are no known hazardous air pollutants associated with this material.

EU/UK RISK PHRASES: R 21/22, 38
Harmful in contact with skin and if swallowed
Irritating to skin

EU/UK SAFETY PHRASES: S 1/2, 22, 24, 25
Keep out of the reach of children
Do not breathe dust
Avoid contact with skin and eyes

EU/UK HAZARD SYMBOL(S): Harmful, Irritant



EINECS IDENTIFICATION: This material is not listed on EINECS.

HMIS RATINGS:

Health:	<u>1</u>	
Flammability:	<u>1</u>	
Reactivity:	<u>0</u>	
Personal Protection:	<u>B</u>	(For explanation, see legend in §16)

16. Other Information

GLOSSARY OF TERMS:

ACGIH: American Conference of Governmental industrial hygienists
DOT: Department of Transportation
hPa: Hectopascals
mPa*s: Millipascal-seconds
OSHA: Occupational Safety and Health Administration
PEL: Permissible Exposure Limit
ppm: Parts per Million
SARA: Superfund Ammendments and Reauthorization Act
STEL: Short-term Exposure Limit
TSCA: Toxic Substance Control Act
TWA: Time-weighted Average
WHMIS: Workplace Hazardous Materials Identification System (Canadian)

EU/UK HAZARD SYMBOLS:



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HMIS PERSONAL PROTECTION LEGEND:

- A: safety glasses
- B: safety glasses and gloves
- C: safety glasses, gloves and an apron
- D: face shield, gloves and an apron
- E: safety glasses, gloves and a dust respirator
- F: safety glasses, gloves, apron and a dust respirator
- G: safety glasses, a vapor respirator
- H: splash goggles, gloves, apron and a vapor respirator
- I: safety glasses, gloves and a dust/vapor respirator
- J: splash goggles, gloves, apron and a dust/vapor respirator
- K: airline hood or mask, gloves, full suit and boots
- L – Z: custom PPE specified by employer
- X: none

The opinions expressed herein are those of qualified experts within DM Healthcare Products, Inc. We believe that the information contained herein is current, as of the date of this MSDS. Because the use of this information and of these opinions, and the conditions of use of this product, are not within the control of DM Healthcare Products, Inc., it is the user's legal obligation to determine the conditions of safe use of this product.