



Material Safety Data Sheet

1 - Product and company information

Product name	OCTYL ACID PHOSPHATE		
Product number	CMROAP	Effective date	05/25/2007
Company identification	Lubrizol Advanced Materials, Inc. 9911 Brecksville Rd. Cleveland, OH 44141-3247 United States of America	Company Canadian Address	Lubrizol Advanced Materials Canada, 100 Regina Street South Suite 360 Waterloo, Ontario, N2J 4P9 Canada
Telephone Chemtrec (24 Hour)	(216) 447-5000 (800) 424-9300	Telephone CANUTEC	(519) 888-3330 (613) 996-6666
Preparer	Health, Safety, and Environmental Department		
Product description	Industrial		

2 - Composition / information on ingredients

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Weight % Less Than</u>
Octyl Acid Phosphate	0012645-31-7	100

Amounts specified are typical and do not represent a specification. Remaining components are proprietary, non-hazardous, and/or present at amounts below reportable limits.

Notes: No Additional Information

3 - Hazards identification

Emergency overview

See below for product details

Acute health effects

Corrosive to the eye. Corrosive - expected to cause severe skin damage with burns and blistering. Ingestion may cause severe irritation of the mouth and digestive system. Exposure to vapors or mists may cause severe irritation and burns of the nose, throat and respiratory tract.

Chronic health effects

None known.

Signs/Symptoms of exposure

Burns, Irritation

Routes of exposure/entry

Skin Contact, Inhalation, Ingestion, Eye Contact

Target organs

Eyes, Gastrointestinal tract, Respiratory tract, Skin

Medical conditions aggravated by exposure

None known.

Carcinogenic status

The components of this mixture are not known to be listed or regulated by IARC, NTP, OSHA or ACGIH.

Reproductive effects

None known.

4 - First aid measures

If irritation or other symptoms (as noted above) occur or persist from any route of exposure, remove the affected individual from the area: see a physician/get medical attention.

Eye contact

Immediately flush eyes with plenty of clean water for an extended time, not less than fifteen (15) minutes. Flush longer if there is any indication of residual chemical in the eye. Ensure adequate flushing of the eyes by separating the eyelids with fingers and roll eyes in a circular motion. Get medical attention immediately, preferably an ophthalmologist.

Skin contact

Wash the affected area thoroughly with plenty of water and soap. Launder clothing before use. Get medical attention immediately.

Inhalation

If affected, remove to fresh air. See a physician.

Ingestion

Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse out mouth and have patient drink several glasses of water. See a physician.

Notes to physician

No Additional Information

5 - Fire fighting measures

NFPA flammability class: N/A

Flash point: > 212.F(> 100.C)
Seteflash

Explosive range: LEL Not Available
UEL Not Available

Notes: No Additional Information

Fire and explosive properties

Smoke and irritating or toxic substances will be emitted upon combustion, burning, or decomposition.

Extinguishing media

Carbon dioxide, foam, dry chemical, water.

Fire fighting instructions

Wear self-contained breathing apparatus (SCBA) equipped with a full facepiece and operated in a pressure-demand mode (or other positive pressure mode) and approved protective clothing. Personnel without suitable respiratory protection must leave the area to prevent significant exposure to hazardous gases from combustion, burning or decomposition. In an enclosed or poorly ventilated area, wear SCBA during cleanup immediately after a fire as well as during the attack phase of firefighting operations.

Unusual fire/explosion hazards

None known.

6 - Accidental release measures

Containment techniques

Contain spill. If spilled in an enclosed area, ventilate.

Clean-up techniques

Wear proper personal protective clothing and equipment. Deny access to the spill area to persons who are not involved in the cleanup and/or who have not been properly trained in spill management. Do not flush liquid into public sewer, water systems or surface waters. Soak up large spill residue and small spills with an inert absorbent. Place into labeled, closed container; store in safe location to await disposal. Change contaminated clothing and launder before reuse.

Evacuation instructions

Not Applicable

7 - Handling and storage

Handling

Do not get in eyes, on skin or clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling this product. Always wash up before eating, smoking or using the facilities. Use under well-ventilated conditions. Avoid inhalation of aerosol, mist, spray, fume or vapor. Wash contaminated clothing before reuse. Provide eyewash fountains and safety showers in the work area.

Storage

Do not store in open, unlabeled or mislabeled containers. Keep container closed when not in use. Do not reuse empty container without commercial cleaning or reconditioning.

8 - Exposure controls / personal protection

Chemical Name	ACGIH - TWA	ACGIH - STEL	OSHA - TWA	OSHA - STEL
Octyl Acid Phosphate	N/E	N/E	N/E	N/E

Notes: No Additional Information

Engineering controls

Always provide effective general and, when necessary, local exhaust ventilation to draw spray, aerosol, fume, mist and vapor away from workers to prevent routine inhalation. Ventilation must be adequate to maintain the ambient workplace atmosphere below the exposure limit(s) outlined in the MSDS. (Ventilation guidelines/techniques may be found in publications such as Industrial Ventilation: American Conference of Governmental Industrial Hygienists, 1330 Kemper

Meadow Drive, Cincinnati, OH, 45240-1634, USA.)

Eye/face protection

Wear eye protection (chemical goggles or goggles and an 8-inch (minimum) full faceshield where spilling or splashing may occur).

Skin protection

Wear chemical resistant (impervious) gloves. Wear chemical resistant protective clothing.

Respiratory protection

Wear an approved respirator (e.g., an organic vapor respirator, a full face air purifying respirator for organic vapors, or a self-contained breathing apparatus) whenever exposure to aerosol, mist, spray, fume or vapor exceed the exposure limit (s) of any chemical substance listed in this MSDS. Use respirator in accordance with manufacturer's use limitations and OSHA standard 1910.134 (29CFR).

General protection

No Additional Information

9 - Physical and chemical properties

Form	Liquid	pH	Not Available
Appearance	Clear to pale yellow	% Volatile by weight	Not Available
Odor	Mild alcoholic	Specific gravity	1.00
Solubility in water	Insoluble	VOC	Not Available
Evaporation rate	Not Available		
Vapor pressure	< 1	Boiling point °F	> 230.F
		Boiling point °C	> 110.C
Melting point	Not Available		
Vapor density	> 1	Bulk Density	Not Available
Partition coefficient	Not Available		

Notes: No Additional Information

10 - Stability and reactivity

Stability

This product is stable.

Hazardous polymerization

Hazardous polymerization will not occur.

Notes:

No Additional Information

Conditions to avoid

None known.

Incompatibility with other materials

None known.

Hazardous decomposition products

None known.

Additional reactivity / stability Information

None

Thermal processing emissions

Not Applicable

11 - Toxicological information

Caution must be exercised through the prudent use of protective equipment and handling procedures to minimize exposure.

<u>Chemical Name</u>	<u>LC50 Inhalation</u>	<u>Species</u>	<u>LD50 Oral</u>	<u>Species</u>	<u>LD50 Skin</u>	<u>Species</u>
Octyl Acid Phosphate	N/E		N/E		N/E	

<u>Chemical Name</u>	<u>LC50 Inhalation</u>	<u>Species</u>	<u>LD50 Oral</u>	<u>Species</u>	<u>LD50 SKin</u>	<u>Species</u>
Octyl Acid Phosphate	N/E		N/E		N/E	

No toxicity studies have been conducted on this product.
As with all chemicals for which test data are limited or do not exist, caution must be exercised through the prudent use of protective equipment and handling procedures to minimize exposure.

12 - Ecological information

No ecological testing has been conducted on this product.

Notes: No Additional Information

13 - Disposal information

pH <= 2.0 or >= 12.5 - EPA Hazardous Waste No.: D002. Federal Resource and Conservation Act (RCRA), 40CFR261.22(b). CERCLA Reportable Quantity: 100 lbs (45.4 kg). Incinerate or landfill waste in a properly permitted facility in accordance with federal, state and local regulations.

US RQ
Not Applicable

14 - Transportation information

UN/NA 3265
Number:

Hazard Class: 8

IMDG Class: 8

Packing Group: III ICAO/IATA Class: 8 TDG Class: 8

Name of Material: Corrosive liquid, acidic, organic, N.O.S.

(contains octyl acid phosphate)

Notes: No Additional Information

15 - Regulatory information

This MSDS has been prepared in accordance with the hazard criteria of the OSHA Hazard Communication Standard, 29 CFR 1910.1200

U.S. Toxic Substances Control Act:

All components of this product are either listed on the U.S. Toxic Substances Control Act (TSCA) inventory of chemicals or are otherwise compliant with TSCA regulations.

U.S. CERCLA – SARA:

SARA Title III Section 312 Hazard Category (40 CFR 311/312):

Immediate health hazard

SARA Section 313: This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and 40 CFR 372:

None Known

California Proposition 65:

Warning: The following ingredients present in the product are known to the state of California to cause Cancer:

None known to be present or none in reportable amounts for occupational exposure as per OSHA's approval of the California Hazard Communication Standard, Federal Register, page 31159 ff, 6 June 1997.

Warning: The following ingredients present in the product are known to the state of California to cause birth defects, or other reproductive hazards:

None known to be present or none in reportable amounts for occupational exposure as per OSHA's approval of the California Hazard Communication Standard, Federal Register, page 31159 ff, 6 June 1997.

The chemical identity of some or all components present is confidential business information (trade secret) and is being withheld as permitted by 29CFR1910.1200 (i).

Canadian Domestic Substances List (DSL):

All components in this product are on the Canadian Domestic Substances List (DSL) or are exempt from listing.

Canadian Ingredient Disclosure List:

The following components are on the Canadian Ingredient Disclosure List (WHMIS):

None Listed

Canadian WHMIS Class:

E

Notes: No Additional Information

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

16 - Other information**Notes:** No Additional Information**HMIS Rating**

Health: 2	Flammability: 1	Reactivity: 0	Personal Protection: X
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NFPA Rating

Health: 3	Flammability: 1	Reactivity: 0
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Key: 0=Insignificant; 1=Slight; 2=Moderate; 3=High; 4=Extreme

Hazardous Materials Identification System (HMIS), National Paint and Coating Assn. rating applies to product "as packaged" (i.e., ambient temperature). Ratings are based upon HMIS® Rating Manual 1984. Values do not reflect HMIS® III.

National Fire Protection Association (NFPA) rating identifies the severity of hazards of material during a fire emergency (i.e., "on fire").

Legend:

* : Trademark owned by The Lubrizol Corporation.

ACGIH: American Conference of Governmental Industrial Hygienists

A1: Confirmed human carcinogen

A2: Suspected human carcinogen

A3: Animal carcinogen

CAS No: Chemical Abstract Service Registry Number

IARC: International Agency for Research on Cancer

Group 1: Carcinogenic to humans

Group 2A: Probably carcinogenic to humans

Group 2B: Possibly carcinogenic to humans

Group 3: Unclassified as a carcinogen to humans

MSHA: Mine Safety and Health Administration

NIOSH: National Institute for Occupational Safety and Health

NTP: National Toxicology Program

N/A: Not Applicable

N/E: None Established

OSHA: Occupational Safety and Health Administration

PEL: Permissible Exposure Limit

PNOC: Particulates Not Otherwise Classified

RTK: Right To Know

STEL: Short Term Exposure Limit (15 minute Time Weighted Average)

TLV: Threshold Limit Value

C: Ceiling Limit

S: Skin notation refers to the potential significant contribution to the overall exposure by the cutaneous route including mucous membranes and the eyes and by direct skin contact with the substance

WHMIS: Canadian Workplace Hazardous Materials Information System

Users responsibility/disclaimer of liability

As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for any use of this product. Information contained herein is believed to be true and accurate but all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. Compliance with all applicable federal, state, and local laws and local regulations remains the responsibility of the user.

This bulletin cannot cover all possible situations which the user may experience during processing. Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary. All health and safety information contained in this bulletin should be provided to your employees or customers. It is your responsibility to develop appropriate work practice guidelines and employee instructional programs for your operation.