

## Potassium Cetyl Phosphate

### Material Safety Data Sheet

#### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Potassium Cetyl Phosphate

**INCI Name:** Potassium Cetyl Phosphate

**Chemical Name:** 1-Hexadecanol, 1-(dihydrogen phosphate), potassium salt (1:1)

**CAS Number:** 19035-79-1

**EINECS Number:** n/a

**Company Name:** MakingCosmetics Inc.

**Company Address:** 35318 SE Center Street, Snoqualmie WA 98065 (USA)

#### SECTION 2. HAZARDS IDENTIFICATION

##### Emergency Overview

##### Caution

Form: powder, Colour: white - beige, Odour: odourless

OSHA Hazards : SEVERE EYE IRRITANT MILD EYE IRRITANT

##### Potential Health Effects

Eyes : Causes eye irritation.

Symptoms of Overexposure : No specific symptoms known.

##### 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.

###### 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.

###### 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.

###### ACGIH

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

##### Additional hazards and advice

Risk of dust explosion.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Synonyms : potassium cetyl phosphate (INCI)

Brief description of the product : Substance

Molecular formula : C16-H35-O4-P .K

**Hazardous components**

Component	CAS-No.	Weight percent
potassium hexadecyl hydrogen phosphate	19035-79-1	75 - 100

**SECTION 4. FIRST AID MEASURES**
**First aid procedures**

General advice : Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.

Inhalation : Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion.  
If symptoms persist, call a physician.

Skin contact : Take off contaminated clothing and shoes immediately.  
Wash off with soap and plenty of water.

Eye contact : Immediately flush eye(s) with plenty of water.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.

Ingestion : Clean mouth with water and drink afterwards plenty of water.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
Obtain medical attention.

**Notes to physician**

Symptoms : No specific symptoms known.

Treatment : Treat symptomatically.

## SECTION 5. FIREFIGHTING MEASURES

### Flammable properties

Flash point : > 230 °F (> 110 °C)

### Fire fighting

Suitable extinguishing media : Water  
Foam

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.  
Consider dust explosion hazard.

### Protective equipment and precautions for firefighters

Specific hazards during firefighting : None known.

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Use personal protective equipment.  
Avoid dust formation.  
Avoid breathing dust.  
Ensure adequate ventilation.

Environmental precautions : Try to prevent the material from entering drains or water courses.

Methods for containment /  
Methods for cleaning up : Pick up and arrange disposal without creating dust.

## SECTION 7. HANDLING AND STORAGE

### Handling

Handling : For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.

Advice on protection against fire and explosion : Avoid dust formation.  
Provide appropriate exhaust ventilation at places where dust is formed.  
Take precautionary measures against static discharges.

### Storage

Requirements for storage areas and containers : Protect from humidity.  
Protect against light.  
  
Keep container tightly closed and dry.

Storage temperature : < 77 °F (< 25 °C)

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Guidelines

Contains no substances with occupational exposure limit values.

### Engineering measures

For technical measures see section 7.

### Personal protective equipment

Eye protection : Safety glasses with side-shields

Hand protection : Glove material: for example nitrile rubber  
Consider the hazard characteristics of this product and any special workplace conditions when selecting the appropriate type of protective gloves.

Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection : In the case of dust or aerosol formation use respirator with an approved filter.

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

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## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	: powder
Colour	: white - beige
Odour	: odourless

### Safety data

Flash point	: > 110 °C
Thermal decomposition	Not relevant
Flammability (solid, gas)	: Not classified as supporting combustion according to the transport regulations.
Explosive properties	: no data available
Oxidizing properties	: no data available
Combustibility index for deposited dust	: 5 (ca. 21 °C)
Dust explosion class	: St(H)1 (Product sample; The value was determined in the modified Hartmann tube.)
Minimum ignition temperature of a dust/air mix	: ca. 310 °C determined in the BAM oven
Minimum ignition energy	: > 10 - 30 mJ (Product sample, Median value of the tested sample 0.146 mm) The Minimum ignition energy (MIE) of a dust/air mix depends on the particle size the water content and the temperature of the dust. The finer and the dryer the dust the lower the MIE.  General remark: The indicated dust explosion characteristics are only valid for this product and are sensitive to the sample's parameters.
Autoignition temperature	: No self ignition observed in the Grewer oven at temperatures below melting point.
Molecular Weight	: 360.4 g/mol

pH	: 6.5 - 8.5 (1%) (as aqueous solution)
Acid number (mg KOH/g)	: 133 - 155 mg/g
Melting point/range	: ca. 161 - 166 °C
Boiling point/boiling range	: not determined
Vapour pressure	: not determined
Density	: not determined
Water solubility	: ca. 0.16 g/l (22 °C)
Solubility in other solvents	: Oils and fats: (ca. 85 °C) soluble
Relative vapour density	: not applicable
Odour Threshold	: No information available.

#### **SECTION 10. STABILITY AND REACTIVITY**

Reactivity	: No hazards to be specially mentioned.
Chemical stability	: Stable under recommended storage conditions.
Hazardous reactions	: Dust may form explosive mixture in air.
Conditions to avoid	: Heat.
Materials to avoid	: Strong acids and strong bases Strong oxidizing agents
Hazardous decomposition products	: No decomposition if used as directed.

**SECTION 11. TOXICOLOGICAL INFORMATION**

Acute oral toxicity	: LD50 (rat): > 5,000 mg/kg
Acute dermal toxicity	: LD50 (rat): > 2,000 mg/kg (OECD Test Guideline 402)
Skin irritation	: No skin irritation (rabbit, OECD Test Guideline 404) : No skin irritation (human, Patch Test 24 Hrs.) : not phototoxic (guinea pig)
Eye irritation	: May cause irreversible eye damage. : Mild eye irritation (rabbit, OECD Test Guideline 405, 10% solution) temporary redness
Sensitisation	: Did not cause sensitization on laboratory animals. (guinea pig, OECD Test Guideline 406) : Did not cause sensitization. (human) : no photoallergenic skin reaction (guinea pig, CTFA Test Guideline)
Genotoxicity in vitro	: not mutagenic (Ames test)
Further information	: The product passes into and partly through the skin of rats and pigs.
Aspiration toxicity	: No aspiration toxicity classification
STOT - single exposure (Acute exposure)	: The substance or mixture is not classified as specific target organ toxicant, single exposure.
STOT - repeated exposure Chronic exposure	: NOAEL (Oral, rat) : 800 mg/kg bw/d Sub-chronic toxicity study (90-day)

## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity effects

Toxicity to bacteria : activated sludge  
Concentration of the substance 100 mg/l  
No inhibition was observed under the biodegradation test conditions.  
(nominal concentration)  
(OECD Test Guideline 301F)

### Elimination information (persistence and degradability)

Distribution among environmental compartments : no data available

Biodegradability : Well inherently biodegradable.  
86 % (28 d)  
(OECD Test Guideline 302C)

### Further information on ecology

Additional ecological information : There is no data available for this product.

### Ecotoxicology Assessment

#### Results of PBT assessment

This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).

This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

## SECTION 13. DISPOSAL CONSIDERATIONS

Further information : User must determine if any wastes generated exhibit hazardous characteristics as per 40 CFR Part 261 or other national / local legislation.

Do not contaminate ponds, waterways or ditches with chemical or used container.  
Do not dispose of waste into sewer.  
Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging : Dispose of as unused product.  
Do not re-use empty containers.





## SECTION 14. TRANSPORT INFORMATION

### DOT

Not dangerous goods

### TDG

Not dangerous goods

### IATA

Not dangerous goods

### IMDG

Not dangerous goods

### RID

Not dangerous goods

### Special precautions for user

Not classified as dangerous in the meaning of transport regulations.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

not applicable

## SECTION 15. REGULATORY INFORMATION

OSHA Hazards : Severe eye irritant

Mild eye irritant

SARA 311/312 Hazards : Acute Health Hazard

### EPCRA - EMERGENCY PLANNING COMMUNITY RIGHT - TO – KNOW

SARA 302 Reportable Quantity : 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.

### Clean Air Act

Ozone-Depletion Potential : This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

### US State Regulations

Massachusetts Right To Know

Remarks : No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know

Components : potassium hexadecyl hydrogen phosphate 19035-79-1

New Jersey Right To Know

Components : potassium hexadecyl hydrogen phosphate 19035-79-1

### The components of this product are reported in the following inventories:

US.TSCA  
DSL

On TSCA Inventory

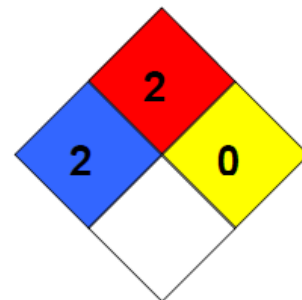
This product contains the following components listed on the Canadian NDSL list. All other components are on the Canadian DSL list.

potassium hexadecyl hydrogen phosphate 19035-79-1

**SECTION 16. OTHER INFORMATION****Further information**

HMIS Classification : Health hazard: 3  
Flammability: 2  
Physical hazards: 0

NFPA Classification : Health hazard: 2  
Fire Hazard: 2  
Reactivity Hazard: 0



The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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Responsible/issuing person

**Abbreviations:** ACGIH = American Conference of Governmental Industrial Hygienists. CERCLA = Comprehensive Environmental Response, Compensation and Liability Act. CFR = Code of Federal Regulations. CPR = Controlled Products Regulations. DSL = Canadian Domestic Substance List. DOT = Department of Transportation. EINECS = European Inventory of New and Existing Chemical Substances. EPA = Environmental Protection Agency. HCS = Hazardous Communication Standard. HEPA = High Efficiency Particulate Air. HMIS = Hazardous Material Identification System. IARC = International Agency for Research on Cancer. IATA = International Air Transport Association. IMDG = International Maritime Dangerous Good. NFPA = National Fire Protection Association. NIOSH = National Institute of Occupational Safety and Health. NJTSR = New Jersey Trade Secret Registry. NTP = National Toxicology Program. OSHA = Occupational Safety and Health Administration. SARA = Superfund Amendments and Reauthorization Act. TDG = Transportation of Dangerous Goods. TLV = Threshold Limit Value. TSCA = Toxic Substance Control Act. WHMIS = Workplace Hazardous Materials Information System.

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