According to Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

PCP EMULSIFIER

Product Master Reference No. 1817

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product Identifier

Trade name: PCP Emulsifier
Chemical name/nature: Potassium Cetyl Phosphate / Potassium hexadecyl hydrogen phosphate
Chemical Formula: C16H34KO4P
CAS No.: 19035-79-1
EC No.: 242-768-1

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

Raw material for cosmetic industry, cosmetic ingredient.
Unidentified or unadvised uses: none identified

1.3 Details of the supplier of the safety data sheet

Company identification: Elemental SRL, Piața Cazărmii no.15, 410188 Oradea, Romania, www.ellemental.com
Competent person responsible for the safety data sheet: e-mail adress: quality@ellemental.com

1.4 Emergency telephone number

RO: număr național pentru cazuri de urgență: (+40) 21 318 36 20 Institutul de Sănătate Publică București
International: List of anti-poison centers in Europe: https://poisoncentres.echa.europa.eu/appointed-bodies

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]:
Eye damage Category 1; H318

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictogram: 

According to Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Signal word: Danger
Hazard statement(s):
H318: Causes serious eye damage.

Precautionary statement(s):
P280: Wear protective gloves/protective clothing/eye protection/face protection. P305 + P354 + P338: IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, ifpresent and easy to do. Continue rinsing. P317: Get medical help

2.3. Other hazards

This substance/mixture does not meet the PBT and vPvB criteria of REACH regulation, annex XIII. The substance is not included in the list established in accordance with Article 59 (1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Name	CAS No.	EC No.	Classification	%
Potassium Cetyl Phosphate	19035-79-1	242-768-1	Eye Dam. 1; H318	≥ 95

3.2. Mixtures
Not applicable

4. FIRST AID MEASURES

4.1. Description of first aid measures

General advice: Do not leave affected person unattended. To prevent aspiration or inhalation of the product, keep the victim on his side with his head lower than the waist and knees half bent. Loosen all items that may cause pressure on the neck and chest such as belts, collars or ties. In case of unconsciousness, do not administer anything orally. In case of doubt or if symptoms persist, call a physician.

In case of Inhalation: Move person to fresh air and keep warm and at rest. If symptoms of irritation and/or choking appear, call a physician immediately.

In case of Skin Contact: Remove contaminated clothing. Wash the skin vigorously with plenty of water and soap. If symptoms of skin irritation appear, consult a physician.

In case of Eye contact: Rinse immediately with plenty of water. Remove any contact lenses if it is easy to manipulate. In case of irritation or vision changes, consult an ophthalmologist.

In case of Ingestion: Do not induce vomiting nor give anything to swallow unless directed to do so by medical personnel. In the event of symptoms, obtain a medical examination.

4.2. Most important symptoms and effects, both acute and delayed
Not considered hazardous under foreseeable conditions of use.

4.3. Indication of any immediate medical attention and special treatment needed
Treat symptomatically.

5. FIREFIGHTING MEASURES

5.1. Extinguishing media
Suitable extinguishing media:
Use extinguishing media appropriate for surrounding fire. Dry powder. Foam, Carbon dioxide (CO2).
Extinguishing media which must not be used for safety reasons: Strong water jet.

5.2. Special hazards arising from the substance or mixture
Do not inhale explosion and combustion gases.
Burning produces heavy smoke.

5.3. Advice for firefighters
Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
Do not allow run-off from fire fighting to enter drains or water courses. Disposal must be done according to official regulations. Move undamaged containers from immediate hazard area if it can be done safely.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

General advice: Ensure adequate ventilation, especially in confined areas. Keep away sources of ignition. Keep away noninvolved persons.
For non-emergency services personnel: Use personal protective equipment as required. Avoid contact with eyes and skin. Evacuate personnel to safe areas. Keep people away from the spill / leak site and upwind.
For emergency services personnel: Use personal protective clothing. In case of vapour formation use respirator

6.2. Environmental precautions
Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Retain contaminated washing water and dispose it. Warn authorities if liquid enters drains or public waters, in accordance with local regulations.

6.3. Methods and material for containment and cleaning up
Methods for cleaning up: Clean contaminated floors and objects thoroughly while observing environmental regulations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.
Use only non-sparking tools. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations. Retain contaminated washing water and dispose it.
Other information: Disposal must be done according to official regulations.

6.4. Reference to other sections
Information for safe handling. See section 7. Concerning personal protective equipment to use, see section 8. For further information refer to section 13.

7. HANDLING AND STORAGEICROBIOLOG

7.1. Precautions for safe handling
Follow general occupational hygiene such as, wash hands before and after use. Use personal protective equipment (anti-static shoes or booties and anti-static gloves) while handling the material. Avoid spills. Multiple handling may lead to dusting which may cause dust explosion hazard during usage. To avoid dusting, keep a minimum distance between bag and the hopper. Use proper dust collection system to avoid particle contamination in the production area. Provide appropriate exhaust ventilation at places where dust is formed. In common with many organic chemicals, may form flammable dust clouds in the air. The product can be a Dust Explosion Hazard and is rated as “St2H”. Take precautionary measures against static discharges. Follow safe procedures for loading and unloading of product.

7.2. Conditions for safe storage, including any incompatibilities

Store the material in a cool, dry, and well-ventilated place < 25°C away from direct heat, sunlight, ignition sources, and moisture. Keep the fiber drums tightly closed. The color of the product may deteriorate on exposure to heat and sunlight.
Keep away from food and beverages.
Incompatible materials: No data available.

7.3. Specific end use(s)
See section 1.2. No additional information available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters
National occupational exposure and biological limit values: No additional information available.
Recommended monitoring procedures: No additional information available.
Air contaminants formed: No additional information available.
DNEL and PNEC: No additional information available.

8.2. Exposure controls
Exposure assessment: Exposures are dependent on the product being handled, the potential for chemical release, and any resulting airborne concentrations or dermal contact. Since product handling and release scenarios vary, and no two workplaces are exactly alike, it is recommended that the potential for exposure be assessed prior to the prod-uct's use or introduction. Exposure assessments should be performed by an occupational hygienist, industrial hygienist, or other qualified occupational or environmental health professional. An exposure assessment should be conducted to determine the efficacy of any ventilation and the need for additional PPE.
Use engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, use the product only with adequate ventilation.
Personal protective equipment: Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes and clothing. When using do not eat, drink or smoke. Remove and wash contaminated clothes before re-use.
Eye and face protection
Eye protection: Use safety goggles according to EN 166 or equivalent local standard. Operate according good working practices.
Skin protection
Skin and body protection: Wear suitable protective clothing. Wear working clothes covering arms and legs.
Use antistatic clothes when flammable liquids are handled. The type of protective equipment must be selected according to the concentration and amount of the hazardous substance at the specific workplace. Use apron and sleeve covers or complete chemical suit if exposure is expected.

Hand protection: Protective gloves resistant to chemicals made off nitrile, requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves. Gloves must be replaced after each use and whenever signs of wear or perforation appear.
Respiratory protection
Respiratory protection: Respiratory protection should be worn when workplace exposures exceed exposure limit requirements or guidelines. If there are no applicable exposure limits or guidelines, use an approved respirator where there is a potential for adverse effects, including but not limited to respiratory irritation or odor, or where indicated by the exposure assessment. Selection of air-purifying or positive-pressure supplied-air will depend on the results of the exposure assessment which includes an evaluation of the specific operations and the potential airborne concentrations. For emergency conditions, use an approved positive-pressure self-contained breathing apparatus. In absence of engineering controls, use self-contained breathing apparatus or full face supplied air respirators. Use respirators and components tested and approved under appropriate government standards such as CEN (EU).

8.3 Environmental exposure controls
Environmental protection legislation for every country must be observed.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties
Appearance: powder
Colour: off-white
Odour: faint
Auto-ignition temperature: no data available
Bulk density: 0.5-0.6 kg/m3 at 25°C
Decomposition temperature: no data available
Density at 20 °C: no data available
Evaporation rate: no data available
Explosion limit lower: no data available
Explosion limit upper: no data available
Explosive properties: not explosive
Flammability: not flammable
Flash point: not applicable
Freezing point: no data available
Melting point: > 165°C
Oxidizing properties: no data available
Particle size: no data available
Partition coefficient: n-octanol/water: no data available

pH: 6.5 – 8.5 (1% aqueous dispersion)
Relative vapour density: no data available
Solubility in other solvents: no data available
Solubility in water: 160 mg/L at 20°C. Water solubility: Soluble at 80°C (Opalescent)- Re-precipitate when cooled to room temperature.
Vapour pressure: not applicable
Viscosity, dynamic: not applicable
Viscosity, kinematic: not applicable

9.2. Other information
Molecular weight : 360.4 gmol-1
Particle size : < 1000 µm
Acid Value (mg KOH/g) : 130 - 155

10. STABILITY AND REACTIVITY

10.1. Reactivity
No hazardous reactions under recommended conditions of use, storage and transport.

10.2. Chemical stability
Stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3. Possibility of hazardous reactions
No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid
Keep away from heat sources, open flames and sunlight.

10.5. Incompatible materials
Metal Salts, Alkali, Alkaline Earth Metals, Hard-Calcium containing water, Store away from strong oxidizing agents and reducing agents.

10.6. Hazardous decomposition products
Under normal conditions of storage and use, hazardous decomposition products should not be produced. Carbon dioxide and the carbon monoxide may form when heated to decomposition.

According to Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

11. TOXICOLOGICAL INFORMATION

11.1. Information on hazard classes as defined in Regulation (EC) No. 1272/2008
Acute toxicity
Acute oral toxicity:
LD50: > 5000 mg/kg bw (According to OECD Guideline 401) LD50: > 2000 mg/kg bw (According to OECD Guideline 423/ EU Method B.1 tris)
Acute inhalation toxicity: No data is available.
Acute dermal toxicity:
LD50: >2000 mg/kg bw (According to OECD Guideline 402)
Acute toxicity (other routes of administration): No data is available.
Skin corrosion/irritation
Skin irritation: Not Irritating (According to OECD Guideline 404/ EU Method B.4)
Serious eye damage/eye irritation: irreversible effects on the eye (risk of serious damage to eyes) (According to OECD Guideline 492)
Respiratory or skin sensitisation
Sensitisation: Not sensitizing (According to Guideline EU Method B.6).
Germ cell mutagenicity: Negative (Equivalent or similar to OECD Guideline 471 and 476).
Carcinogenicity: No data is available.
Reproductive toxicity: No data is available.
Target Organ Systemic Toxicant - Single exposure: Not classified.
Target Organ Systemic Toxicant - Repeated exposure: Not classified. Repeated dose toxicity: oral (Rat): NOAEL: ≥800 mg/kg bw/day (Equivalent or similar to guideline OECD Guideline 408).
Aspiration toxicity: No data is available.
Phototoxicity: No data is available.

11.2. Information on other hazards
Endocrine disrupting properties: No data available.
Further information: No other relevant information available.

12. ECOLOGICAL INFORMATION

12.1. Toxicity
Short-term toxicity to fish : Oncorhynchus mykiss
LC50 (96 h): >100 mg/L (According to OECD Guideline 203/ EU Method C.1)
Long-term toxicity to fish : No data available
Short-term toxicity to aquatic invertebrates : Daphnia magna LC50 (46 h): >100 mg/L (According to OECD Guideline 202/ EU Method C.2)

Long-term toxicity to aquatic invertebrates : No data available
Toxicity to aquatic algae : Desmodesmus subspicatus
EC50 (72 h): >100 mg/L EC10 (72 h): >100 mg/L (According to OECD Guideline 201/EU Method C.3).

12.2. Persistence and degradability
Readily biodegradable; ≥60% after 10 days (O2 Consumption)
(According to OECD Guideline 301 D; Ready Biodegradability:Closed Bottle Test).

12.3. Bioaccumulative potential
Log Kow: 2.66 at 25 °C; substance has a low potential for bioaccumulation (According to OECD Guideline 123).

12.4. Mobility in soil
Adsorption coefficient: log Koc: 112076.

12.5. Results of PBT and vPvB assessment
This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6. Endocrine disrupting properties
The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57 (f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7. Other adverse effects
No information available.

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods
Disposal recommendations
Dispose in accordance with local and national regulations. Product should not be allowed to enter drains, pipes, or soil.
Product/Packaging disposal recommendations
Empty containers should be taken for local recycling, recovery or waste disposal. Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse. Packaging that cannot be cleaned should be disposed of like the product.

According to Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

14. TRANSPORT INFORMATION

14.1. UN number
Not classified as dangerous in the meaning of transport regulations.
14.2. UN proper shipping name
Not regulated
14.3. Transport hazard class(es)
Not regulated
14.4. Packing Group
Not regulated
14.5. Environmental hazards
Not regulated
14.6. Special Precautions for User
No data available
14.7. Maritime transport in bulk according to IMO instruments
Not applicable

15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
REACH Regulation (EU) 2020/878 amending Regulation (EC) 1907/2006
CLP Regulation 1272/2008 and further amendments up to date
Regulation (EC) 790/2009, Regulation (EC) 648/2004, Regulation EU 2019/1021
Directive 2000/39/EC (Occupational exposure limit values)

15.2. Chemical safety assessment
No information available.

16. OTHER INFORMATION

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

16.1 Relevant H and EUH statements
H318: Causes serious eye damage

16.2 Abbreviations and acronyms

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Test-ing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA – European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergen-cy Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration as-sociated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good La-boratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships car-rying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - Interna-tional Civil Aviation Organization; IECSC – Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO – International Maritime Organization; INCI: International Nomenclature of Cosmetic Ingredients; ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - Interna-tional Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic sub-stance; PNEC: Predicted No Effect Concentration; REACH – Regulation of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; STE: Short-term exposure; STEL: Short Term Exposure limit; STOT: Specific Target Organ Toxicity; UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

This SDS cancels and replaces any preceding release. This document was prepared by a competent person who has received appropriate training. The information provided in this safety data sheet complies with our current level of knowledge as well as with national and EU regulations, 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 product must not be used for purposes other than those mentioned in section 1. It is always the duty of the user to take the necessary measures to comply with the requirements set by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and should not be considered warranted attributes of the product.