



SUPERIOR QUALITY - ETHICALLY SOURCED

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SDS (Safety Data Sheet)

Cetareth-25

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / March 26, 2012 / Rules and Regulation

Revision Date: 11-May-2021
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1 PRODUCT & COMPANY IDENTIFICATION

Product Name: Cetareth-25
Synonyms: PEG-25 cetyl/stearyl ether
INCI Name: Cetareth-25
CAS Number: 68439-49-6
Formula: No data available
Product Form: White pellets
Product Use: Cosmetic use

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2 HAZARDS IDENTIFICATION

GHS Classification: Eye Dam./Irrit. - 2B (Serious eye damage/eye irritation)
 Aquatic Acute - 2 (Hazardous to the aquatic environment - acute)
 Combustible Dust - Combustible Dust (1) (Combustible Dust)

GHS Signal Word: WARNING

GHS Hazard Pictograms: None

GHS Hazard Statements: May form combustible dust concentrations in air.
 H320: Causes eye irritation.
 H401: Toxic to aquatic life.

GHS Precautionary Statements: P273: Avoid release to the environment.
 P264: Wash with plenty of water and soap thoroughly after handling.
 P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P337 + P311: If eye irritation persists: Call a POISON CENTER or doctor/physician.
 P501: Dispose of contents/container to hazardous or special waste collection point.

Potential Health Hazards: Eyes: Causes serious irritation.
 Inhalation: Not an expected route of exposure.
 Skin: May be irritant.
 Ingestion: Harmful if swallowed.

NFPA Ratings (704):

Health	1	Slight
Flammability	1	Slight
Reactivity	0	Minimal
Specific Hazard	N/A	

3 COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS No.</u>	<u>Weight %</u>	<u>Molecular Weight</u>
Cetareth-25	68439-49-6	80-100%	Not available

4 FIRST AID MEASURES

Eyes: Wash affected eyes for at least 15 minutes under running water with eyelids held open. Consult an eye specialist.
Inhalation: Keep patient calm, remove to fresh air.
Skin: Wash thoroughly with soap and water. Remove contaminated clothing and wash thoroughly before reuse.
Ingestion: Rinse mouth and drink 200-300ml of water. Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. Get medical attention if necessary.

5 FIRE-FIGHTING MEASURES

Suitable (and unsuitable) May be combustible at high temperature. Use appropriate media (dry powder, foam) for

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extinguishing media:	adjacent fire. Do not use carbon dioxide.
Special protective equipment & precautions for firefighters:	Avoid whirling up the material/product because of the danger of dust explosion. Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.
Flash Points:	>200° C
Specific hazards arising from the chemical:	Harmful vapors, carbon oxides. Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire. Dusty conditions may ignite explosively in the presence of an ignition source causing flash fire. See also Stability and Reactivity section.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment & emergency procedures:	Non-sparking tools should be used. Forms slippery surface with water. Avoid the formation and build-up of dust - danger of dust explosion. Dust in sufficient concentration can result in an explosive mixture in air. Handle to minimize dusting and eliminate open flame and other sources of ignition. Do not try to clean up the leak without proper protective equipment. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). See section 8 for recommendations on the use of personal protective equipment.
Environmental precautions:	Avoid liquid release into sewers/public water. Notify environmental authorities in case of large leaks.
Methods and material for containment and cleaning up:	For small amounts: Pick up with suitable appliance and dispose of. For large amounts: Contain with dust binding material and dispose of. Avoid raising dust. Dispose of absorbed material in accordance with regulations.

7 HANDLING & STORAGE

Precautions for safe handling:	Protect against moisture. Shut containers immediately after taking product because product takes up the humidity of air. No special measures necessary provided product is used correctly. Avoid dust formation. Dust in sufficient concentration can result in an explosive mixture in air. Handle to minimize dusting and eliminate open flame and other sources of ignition. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Routine housekeeping should be instituted to ensure that dusts do not accumulate on the surfaces. Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing Processing, and Handling of combustible Particulate Solids (2013 Edition) for safe handling. See section 8 for recommendations on the use of personal protective equipment. Keep container closed when not in use.
Conditions for safe storage, incl. any incompatibilities:	Dust explosion class: Dust explosion class 1 (Kst-value >0 up to 200 bar m s-1) Suitable materials for containers: High density polyethylene (HDPE), Low density polyethylene (LDPE), Stainless steel 1.4301 (V2), Stainless steel 1.4306 (V2A), Stainless steel 1.4361, Stainless steel 1.4401, Stainless steel 1.4439, Stainless steel 1.4539, Stainless steel 1.4539, Stainless steel 1.4571, Stove-lacquer RDL 50. Containers should be store tightly sealed in a dry place. Storage temperature: ≤30°C. Keep container dry. The product is not damaged by low temperatures or by frost. Protect from temperatures above 30°C. Properties of the product can change irreversibly on exceeding the limit temperatures. Keep away from heat and incompatible materials (see section 10 for incompatibilities).

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

<u>Component</u>	<u>Exposure Limits</u>	<u>Basis</u>	<u>Entity</u>
Ceteareth-25	No data available		

TWA: Time Weighted Average over 8 hours of work.
TLV: Threshold Limit Value over 8 hours of work.
REL: Recommended Exposure Limit
PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit during x minutes.
IDLH: Immediately Dangerous to Life or Health
WEEL: Workplace Environmental Exposure Levels
CEIL: Ceiling

Personal Protection:

Eyes:	Tightly fitting safety goggles (chemical goggles) and face shield should be worn.
Inhalation:	It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or explosion suppression system or an oxygen

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deficient environment. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment). Use only appropriately classified electrical equipment and powered industrial trucks. Wear a NIOSH-certified (or equivalent) organic vapor/particulate respirator. Observe OSHA regulations for respirator use (29 CFR 1910.134).

Body: Body protection must be chosen based on level of activity and exposure. Wear protective clothing as necessary to minimize contact. Chemical resistant protective gloves should be worn.

Other: Handle in accordance with good industrial hygiene and safety practices. No eating, drinking, smoking, or tobacco use at the place of work. Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Pastilles	Vapor Pressure (20 °C):	<0.1 hPa
Odor:	Product specific	Vapor Density:	Not applicable
Odor Threshold:	No data available	Evaporation Rate:	The product is a non-volatile solid.
Color:	Colorless to yellowish	Flammability:	Hardly combustible (DIN ISO 2592)
Molecular Weight:	No data available	Upper/lower Explosive Limit:	For solids not relevant for classification and labelling
pH (50 g/L, 23 °C):	Approx. 7 (DIN EN 1262)	Flash Point:	>250 °C
Boiling Point:	>250 °C	Specific Gravity:	No data available
Melting Point:	Approx. 46 °C	Solubility:	Soluble in water, ethanol. Miscible in all proportions with water
Bulk Density:	Approx. 600 kg/m ³ (DIN ISO 697)	Auto-Ignition Temperature:	>300 °C
Partition Coefficient: n-octanol/water:	Not applicable	Decomposition Temperature:	>350 °C (DTA)
Viscosity, Dynamic:	Approx. 70 mPa.s (60 °C) (DIN EN 12092)	Explosive Properties:	No data available
Oxidizing Properties:	No data available	Freezing Point:	No data available
Drop Point:	Approx. 45 °C (DIN 51801)	Solidification Temperature:	Approx. 38 °C (DIN ISO 2207)
Density (60 °C):	Approx. 1.02 g/cm ³ (DIN 51757)	Viscosity, Kinematic:	Not applicable, the product is a solid

10 STABILITY AND REACTIVITY

Reactivity:	No hazardous reactions if stored and handled as prescribed/indicated. Corrosive effects to metals are not anticipated. Not fire-propagating. Dust explosivity characteristics: Kst: Approx. 16 m.bar/s (DIN EN 14034-2) SIK-Nr. 10/1607 07.10.2010 Dust explosion class 1 (Kst-value >0 up to 200 bar m ² -1) (St 1) Minimum ignition energy: 1 - 4 J, 1.013 hPa, inductivity: 1 mH, Grain size distribution: 20 - 400 µm (DIN EN 13821) This product is capable of dust explosion.
Chemical Stability:	The product is stable if stored and handled as prescribed/indicated.
Hazardous Polymerization:	The product is chemically stable. Dust explosion hazard.
Conditions to Avoid:	See Section 7 - handling and storage.
Incompatible Materials:	Caustics, halogens, Alkalines, acids, reactive chemicals.
Hazardous Decomposition Products:	No hazardous decomposition products if stored and handled as prescribed/indicated. Thermal decomposition: >350 °C (DTA)

11 TOXICOLOGICAL INFORMATION

Acute Toxicity:	Virtually non-toxic after a single ingestion.
Skin:	Not irritating to skin.
Eyes:	Eye contact causes irritation.

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Respiratory:	No data available
Ingestion:	LD50: >5000 mg/kg
Carcinogenicity:	Based on the structure, there is no suspicion of a carcinogenic effect.
Teratogenicity:	Based on the ingredients, there is no suspicion of a teratogenic effect.
Germ Cell Mutagenicity:	Based on the structure, there is no suspicion of a mutagenic effect.
Embryotoxicity:	No data available
Specific Target Organ Toxicity:	Based on the available information there is no specific target organ toxicity to be expected after a single exposure.
Reproductive Toxicity:	Based on the ingredients, there is no suspicion of a toxic effect on reproduction.
Respiratory/Skin Sensitization:	No data available
Corrosivity:	Not irritating to skin.
Sensitization:	Based on the structure, there is no suspicion of a skin-sensitizing potential.
Irritation:	No data available
Repeated Dose Toxicity:	The information available on the product provides no indication of toxicity on target organs after repeated exposure.

12 ECOLOGICAL INFORMATION

Ecotoxicity

Aquatic Vertebrate:	LC50: >1 - <10 mg/L (Leuciscus idus) (96h)
Aquatic Invertebrate:	EC50: >1 - <10 mg/L (Daphnia magna)
Terrestrial:	EC50: >10 - <100 mg/L (growth rate) (algae) EC50: >5000 mg/L (activated sludge)
Persistence and Degradability:	Readily biodegradable (according to OECD criteria). >60% CO ₂ formation relative to the theoretical value (28d) (OECD 301B; ISO 9349; 92/69/EEC, C.4-C) ≤90% Bismuth-active substance (mod. OECD 303A)
Bioaccumulative Potential:	Accumulation in organisms is not expected.
Mobility in Soil:	The substance will not evaporate into the atmosphere from the water surface. Adsorption to solid soil phase is possible.
PBT and vPvB Assessment:	No data available
Other Adverse Effects:	No data available

13 DISPOSAL CONSIDERATIONS

Waste Residues:	Must be disposed of or incinerated in accordance with local regulations. Do not discharge into drains/surface waters/ground water. Dispose of in accordance with national, state, and local regulations.
Product Containers:	Dispose of in accordance with national, state, and local regulations. Recommend crushing, puncturing, or other means to prevent unauthorized use of used containers.

The information in section 13 is for the product as shipped. Use and/or alterations to the product may change the characteristics of the material and alter the waste classification and proper disposal methods

14 TRANSPORT INFORMATION

DOT (Dept. of Transportation, USA):	Not classified as dangerous good under transport regulations.
TDG (Transportation of Dangerous Goods, Canada):	No data available
IMDG (International Maritime Dangerous Goods):	Not classified as dangerous good under transport regulations.
IATA (International Air Transport Association):	Not classified as dangerous good under transport regulations.
ICAO (International Civil Aviation Organization):	Not classified as dangerous good under transport regulations.

15 REGULATORY INFORMATION

TSCA Inventory Status:	Released / exempt.
DSL/NDL:	No data available
WHMIS (Canada):	No data available
EU EINECS/ELINCS/NLP:	No data available
China IECSC:	No data available
China IECIC (06.30.2014):	No data available

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Australia AICS:	No data available
Japanese MITI:	No data available
Philippines PICCS:	No data available
Korea KECL:	No data available
EPCRA 311/312 (Hazard categories):	Refer to SDS Section 2 for GHS hazard classes applicable for this product.
CERCLA RQ:	100lbs (1,4-dioxane CAS 123-91-1) 10lbs (Ethylene Oxide CAS 75-21-8)
California Prop. 65:	WARNING: this product can expose you to chemicals including ETHYLENE OXIDE, which is known to the State of California to cause cancer and birth defects or other reproductive harm.

16 OTHER INFORMATION

Revision Date:	11-May-2021
Compliance:	This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200
Disclaimer:	This 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 other process. Such information is to be the best of the company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitability & completeness of such information for his own particular use.