



Product - Cetearyl Alcohol Beads

Batch Number - 4406701

Best Before Date - August 2023

Test	Method	Result	Units	Specification	
				Min.	Max.
Melting Point	EP 2.2.17	<b>52</b>	oC	49	56
Colour Lovibond 51/4	IP 17b	<b>1</b>	Yellow	0	1
Colour Lovibond 51/4	IP 17b	<b>0.1</b>	Red	0	
Visual Appearance	In House	<b>Clear</b>		Clear	
Acid Value	EP 2.5.1	<b>0</b>	mg KOH/g		0.1
Hydroxyl Value	EP 2.5.3 [A]	<b>214</b>	mg KOH/g	210	220
Saponification Value	EP 2.5.6	<b>0.5</b>	mg KOH/g		1
Iodine Value	EP 2.5.4	<b>0.5</b>	gI <sub>2</sub> / 100g		1
Stearyl Alcohol	EP 2.2.28	<b>70</b>	% w/w	65	
Cetyl & Stearyl Alcohol	EP 2.2.28	<b>98</b>	% w/w	90	

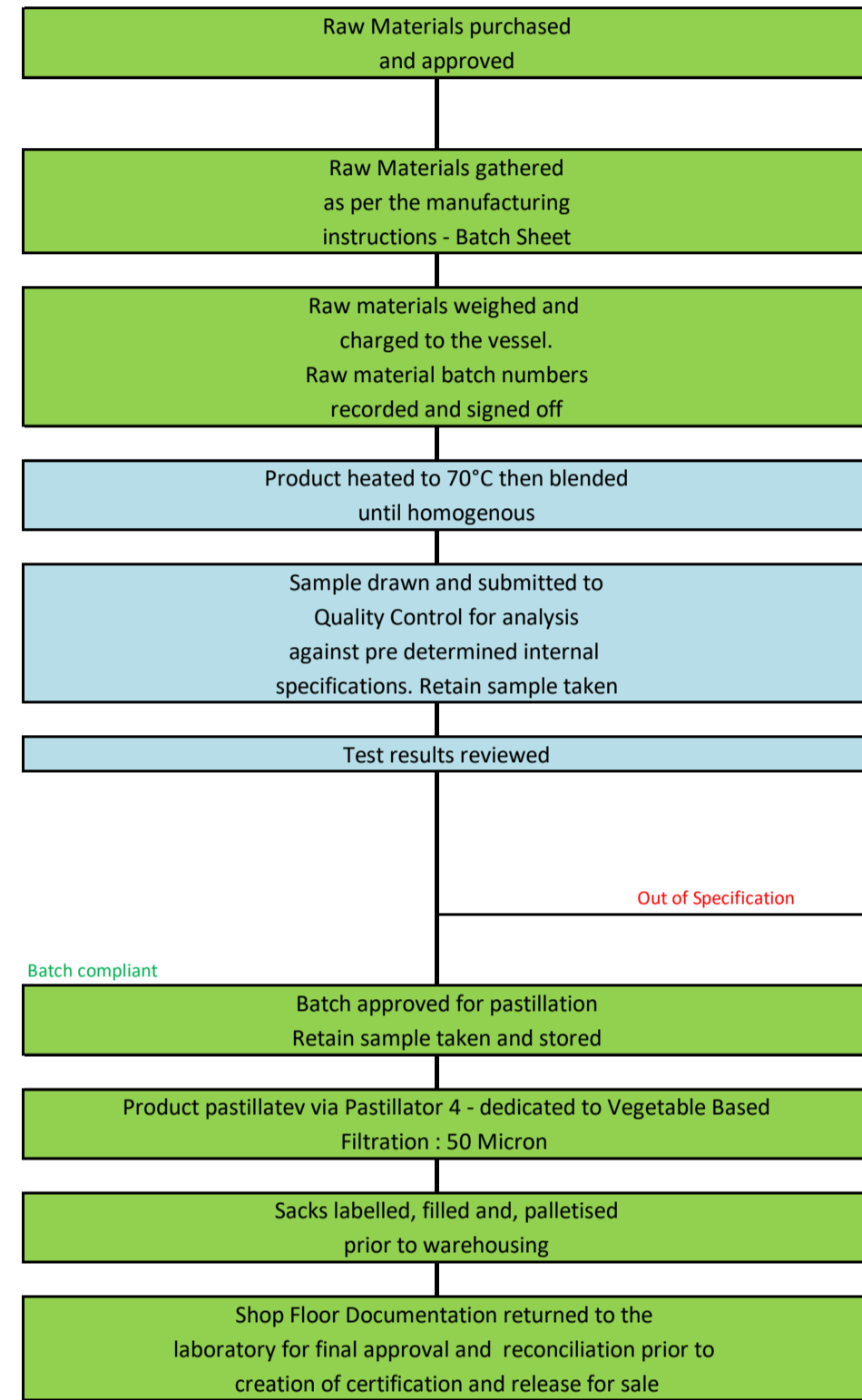


<b>Chemical Family</b>	Fatty Alcohols
<b>Synonyms</b>	Cetostearyl Alcohol
<b>C.A.S Number</b>	n/a - Mixture
<b>Characteristics</b>	A blend of Cetostearyl Alcohols
<b>Solubility</b>	Soluble in Ethanol
<b>Pharmacopoeia Compliance:</b>	
<b>European</b>	Yes Certified
<b>Regulatory Information:</b>	
<b>Materials of Human Origin</b>	None present
<b>Materials of Animal Origin</b>	None present
<b>State Of California Proposition 65</b>	Complies
<b>GMO Materials</b>	None present
<b>Residual Solvents</b>	Complies with CPMP/CH283/95

**Manufacture**

Raw Material Sampling

Initial Batch Sampling



Materials in dedicated Stainless Steel Bulk Storage Tank  
Materials in the blend vessel

- Critical Step 1 - Ensures the correct starting materials are available and within specification
- Critical Step 2 - Ensures that the materials within the formulation are at the required ratios and are fully traceable to source
- Critical Step 3 - Ensures that a homogenous batch is achieved
- Critical Step 4 - Determines the physical properties of the batch
- Critical Step 5 - Ensures that the batch is compliant with both internal and external specifications. Adjustments can be made at this stage to fine tune any out of specification properties
- Critical Step 6 - Ensures that the batch is fully complaint prior to filling
- Critical Step 7 - Ensures that any particulate matter is removed
- Critical Step 8 - Ensures the correct identification marks are present and traceability back to the refiners is maintained
- Critical Step 9 - Ensures that all of the above has been performed and the batch is qualified for release to the customer

<b>Storage</b>	Sealed containers in cool, dry conditions, protected from direct sunlight
<b>Shelf Life (re test date)</b>	3 years when stored as indicated above



## SDS – Cetearyl Alcohol

### Information

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#### 1. Identification of the Substance/Preparation and the Company/Undertaking

##### 1.1 Product identifier:

**Product name:** Cetearyl Alcohol  
**REACH registered name:** C16 -18 Alcohol  
**REACH registered No:** 01-2120092297-47  
**CAS Number:** 67762-27-0

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

**Identified use(s):** Various Industrial Applications, Chemical Intermediate, Lubricant, Cosmetics, and Aluminium rolling lubricants.

##### 1.3 Details of the supplier of the safety data sheet:

Madar Corporation Limited  
19 - 20 Sandealth Industrial Estate  
Fordingbridge  
SP6 1PA  
Telephone: +44 (0) 1425 655 555

##### 1.4 Emergency telephone number: +44 (0) 1425 655 555

**Email address:** [technical@madarcorporation.co.uk](mailto:technical@madarcorporation.co.uk)

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#### 2. Hazards Identification

##### 2.1 Classification of the Substance or Mixture: CLP Regulation 1272/2008/EC

Not classified according to DSD [67/548/EC] or CLP Regulation 1272/2008/EC

##### 2.2 Label Elements:

GHS- Classification [Regulation (EC) No 1272/2008

**Signal Word:** None

**Hazard Statements:** None

**Precautionary statements:**

P101: If medical advice is needed, have product container or label at hand.  
P102: Keep out of reach of children.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.P301+P312: IF SWALLOWED: Call a POISON CENTER/doctor/.../if you feel unwell.  
P302+P352: IF ON SKIN: Wash with plenty of water.  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**2.3 Other Hazards:**

- **PBT:** This product is not identified as a PBT / vPvB substance
- Hot liquid may cause thermal burns.

### 3. Composition

**3.1 Substances:** Not Applicable

**3.2 Mixtures:** Cetyl and Stearyl Alcohol

CAS-No:	Substance Name	% Range	EC Number	1272/2008 [CLP]	REACH Reg No
112-92-5	1-Octadecanol	65-75	204-017-6	--	01-2119485907-20
36653-82-4	1-Hexadecanol	25-35	253-149-0	--	01-2119485905-24
Impurities					
112-72-1	1-Tetradecanol	<1	204-000-3	Eye Irrit. 2(H319) Aquatic Chronic 1(H410)	01-2119485910-33

There are no additional ingredients present which, within current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section in accordance with Regulation (EC) No. 1272/2008.



## 4. First aid measures

### 4.1 Description of First Aid Measures

**General Information:** Remove contaminated / saturated clothing immediately. In case of accident or illness seek medical advice immediately.

**Inhalation:** Remove the affected person to fresh air, keep warm and rest. If recovery is not rapid, obtain medical attention

**Skin Contact:** Wash the affected parts of the body with soap and water. No emergency measures are necessary but if adverse skin effects follow, refer for medical attention.

**Eye Contact:** Flush eyes immediately with fresh water for at least 5 minutes while holding the eyelids open. No emergency measures are necessary but if adverse eye effects follow, refer for medical attention.

**Ingestion:** Do not induce vomiting. No emergency measures are needed but if adverse health effects follow or large amounts are swallowed, refer for medical attention.

**Self-Protection of First Aider:** First aider, pay attention to self-protection.

### 4.2 Most important symptoms and effects, both acute and delayed

**Inhalation:** Over-heated oil can produce fumes which may be irritant when breathed in.

**Skin Contact:** May cause slight irritation to skin.

**Ingestion:** No known significant effects or critical hazards

**Eye Contact:** May cause slight irritation to eyes

### 4.3 Indication of any immediate medical attention and special treatment needed

In contact with or splashed by hot liquid:

**Skin Contact** Cool the skin immediately with cool water. Treat burns according to their severity. Obtain medical attention. Never try to remove the material with solvents.

**Contact with eyes** Cool the area immediately with cold water. Seek advice of an ophthalmologist.

**Specific Treatment:** First Aider, decontamination, treatment of symptoms.

**Notes to doctor:** Treat symptomatically.

## 5. Firefighting measures

**5.1 Extinguishing media:** Foam, dry chemical, carbon dioxide, water mist.

**5.2 Special hazards arising from the substance or mixture:** Slight flammability hazard when exposed to heat or flame. During a fire, toxic gases (carbon monoxide, nitrous gases) may be generated by thermal decomposition or combustion.

**5.3 Advice for firefighters:** Only suitably trained personnel should attempt to tackle fires. Do not stay in the danger zone without respiratory protective equipment and protective clothing.

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## 6. Accidental release measures

**6.1 Personal precautions, protective equipment and emergency procedures:** Surfaces may become slippery after spillage.

**6.2 Environmental precautions:** Water may be used to flush spills away from sources of ignition. Do not allow the product to enter public drainage system or open water courses.

**6.3 Methods and material for containment and cleaning up:** Use Sand or active clay to absorb spilled substance and remove to containers for disposal

**6.4 Reference to other Sections:** See sections 8 and 13

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## 7. Handling and storage

**7.1 Precautions for safe handling:** Avoid skin contact. Avoid inhalation of vapour, mist or fumes. Do not wear contaminated clothing. Avoid contact with the eyes – wear chemical protective goggles when handling the product. Protective clothing such as impervious gloves should be worn if skin contact is anticipated. Protective clothing should be regularly inspected and maintained, discard oil saturated leather articles. The use of barrier and after work creams may be beneficial. Wash hands after working with the material.

**7.2 Conditions for safe storage, including any incompatibilities:** Keep containers tightly closed. Avoid heat and sources of ignition. Store in original containers or in other mild steel or high density polyethylene containers which are closable and clearly labelled. Clean up any spilled material immediately

**7.3 Specific end use(s):** This material is formulated for various uses.

## 8. Exposure Controls/Personal Protection

### 8.1 Control Parameters:

Substance Name	Type	Exposure Long Term	Value	Population	Effect
1-Hexadecanol	DNEL	Dermal	75mg/kg bw/day	Consumer	Systemic
	DNEL	Inhalation	65 mg/m <sup>3</sup>	Consumer	Systemic
	DNEL	Oral	75 mg/kg bw/day	Consumer	Systemic
	DNEL	Dermal	125 mg/kg bw/day	Worker	Systemic
	DNEL	Inhalation	220 mg	Worker	Systemic
1-Octadecanol	DNEL	Dermal	75mg/kg bw/day	Consumer	Systemic
	DNEL	Inhalation	65 mg/m <sup>3</sup>	Consumer	Systemic
	DNEL	Oral	75 mg/kg bw/day	Consumer	Systemic
	DNEL	Dermal	125 mg/kg bw/day	Worker	Systemic
	DNEL	Inhalation	220 mg	Worker	Systemic

### PNEC Values

Chemical Name	Freshwater sediment	Marine sediment	Sewage treatment plant	Soil
1-Tetradecanol	0.36 mg/kg wwt	0.018 mg/kg wwt	0.0019 mg/L	0.28 mg/kg wwt

### 8.2 Exposure Controls:

**Appropriate engineering measures:** Facilities storing or utilising this material should be equipped with an eyewash facility.



**Respiratory protection:** Inhalation of the vapour, fumes or mists should be avoided by safe working practices and good ventilation.

**Eye protection:** Wear appropriate eye goggles.

**Skin protection:** No special precautions are needed beyond clean working conditions and safe handling practices. Change heavily contaminated clothing.

**Hand protection:** Use impervious gloves [conforming to EN374] PVC is suitable for casual contact. If direct contact for more than 2 hours then Neoprene or nitrile gloves recommended.

**8.3 Environmental Exposure Controls:** See sections 6, 7, 12 and 13

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## 9. Physical and Chemical Properties

### 9.1 Information on basic chemical and physical properties:

<b>Appearance:</b>	Liquid (at elevated temperature) White Solid (at ambient temperature)
<b>Odour:</b>	Typical
<b>Odour threshold:</b>	Not determined
<b>pH:</b>	Neutral
<b>Melting point/ Congealing point:</b>	49-56°C
<b>Boiling point/ range:</b>	Initial boiling point >200°C
<b>Flash Point:</b>	> 150°C, (ASTM D92, COC)
<b>Evaporation Point:</b>	Not determined
<b>Flammability (solid, gas):</b>	May be combustible at high temperature
<b>Explosion Limits:</b>	Not determined
<b>Vapour pressure:</b>	< 1 mm Hg at 72°F (22°C)
<b>Vapour density:</b>	Not determined
<b>Relative density (at 15°C):</b>	approx. 0.82
<b>Solubility in water:</b>	<1 mg/l
<b>Solubility in other solvents:</b>	Soluble in >90% Ethanol
<b>Partition coefficient n-octanol/water:</b>	Not determined
<b>Auto-ignition temperature:</b>	>200°C.
<b>Decomposition temperature:</b>	Not determined
<b>Viscosity (Dynamic, at 70°C):</b>	7 mPa.s
<b>Explosive properties:</b>	Not determined
<b>Oxidizing properties:</b>	Not determined

**9.2 Other Information:** None



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## 10. Stability and Reactivity

**10.1 Reactivity:** This product is not reactive under normal storage and handling conditions (see section 7).

**10.2 Chemical stability:** Under normal storage and handling conditions, this product is stable. May react with strong oxidising agents, especially at high temperatures.

**10.3 Possibility of hazardous reactions:** No specific hazardous reactions are expected to occur.

**10.4 Conditions to avoid:** Extremes of temperature (preferably, store between 5 & 39 °C).

**10.5 Incompatible materials:** May react with strong oxidants (e.g. chlorates, peroxides).

**10.6 Hazardous decomposition products:** Thermal decomposition or incomplete combustion may produce carbon monoxide, nitrous gases and irritating fumes.

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## 11. Toxicological Information

**11.1 Information on toxicological effects – 1-HEXADECANOL (36653-82-4)  
1-OCTADECANOL (112-92-5)      1-TETRADECANOL (112-72-1)**

### Acute Toxicity

Acute Toxicity (oral)	LD50>2000mg/kg
Acute Toxicity (dermal)	LD50>8000mg/kg 24Hrs
Acute Toxicity (inhalation)	LC50 >1.5 mg/l

**Skin Corrosive / Irritation:** Not classified – OECD 404

**Serious Eye Damage Irritation:** Not classified – OECD 405

**Respiratory Sensitisation:** Not available

**Skin Sensitisation:** Non-sensitising

**Repeated Dose Toxicity:** Not available.

**Mutagenicity:** Negative – Ames Test - Salmonella Typhimurium (Salmonella enterica) 48hrs



<b>Carcinogenicity:</b>	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. Not classified.
<b>Reproductive Toxicity:</b>	Not classified

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## 12. Ecological Information

### 12.1 Toxicity:

1-HEXADECANOL (36653-82-4)

<b>Environmental Fate:</b>	Not established
<b>Aquatic toxicity (fish):</b>	LC50 - Rainbow trout, Donaldson trout - > 0.4 mg/l, 96 hours, Not toxic. OECD 203, EU Method C.1.
<b>Aquatic toxicity (algae):</b>	EL50 - Green algae ( <i>Desmodesmus subspicatus</i> ) - > 1000 mg/l, 96 hours, Not toxic, OECD 201.
<b>Aquatic toxicity (crustacea):</b>	EC50 - Water flea ( <i>Daphnia magna</i> ) - > 0.01 mg/l, 48 hours. Not toxic.

1-OCTADECANOL (112-92-5)

<b>Environmental Fate:</b>	Not established
<b>Aquatic toxicity (fish):</b>	LC50 - Rainbow trout, Donaldson trout - > 0.4 mg/l, 96 hours, Not toxic. OECD 203, EU Method C.1.
<b>Aquatic toxicity (algae):</b>	EL50 - Green algae ( <i>Desmodesmus subspicatus</i> ) - > 0.0011 mg/l, 96 hours, Not toxic, OECD 201.
<b>Aquatic toxicity (crustacea):</b>	EC50 - Water flea ( <i>Daphnia magna</i> ) - 1700 mg/l, 48 hours. OECD 202. – Chronic - 47.6 µg/l, 21 days, EPA OPPTS 850.1300.

1-TETRADECANOL (112-72-1)

<b>Environmental Fate:</b>	Not established
<b>Aquatic toxicity (fish):</b>	LC50 - Rainbow trout, Donaldson trout - 1 mg/l, 96 hours, OECD 203, EU Method C.1.



<b>Aquatic toxicity (algae):</b>	EL50 - Green algae ( <i>Desmodesmus subspicatus</i> ) - chronic - > 10 mg/l, 96 hours, OECD 201 DIN 38412 Pt 9.
<b>Aquatic toxicity (crustacea):</b>	EC50 - Water flea ( <i>Daphnia magna</i> ) - 1.6 µg/l, 21 days, OECD 211
<b>Mobility:</b>	Not available
<b>Biodegradation:</b>	Expected to be readily biodegradable.
<b>Bioaccumulation potential:</b>	Will not bio-accumulate.
<b>Other Ecological information:</b>	No known significant effects or critical hazards.

**Results of PBT and vPvB assessment:** This substance does not fulfil the criteria for being classed as a PBT or vPvB substance.

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## 13 Disposal Considerations

**13.1 Waste treatment methods:** Transport to authorised waste location, or incinerate under controlled conditions (EU Directives 2000/76/EC and 1999/31EC apply). European Waste Catalogue No. 050199/130899.

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## 14. Transport Information

**14.1 UN number:** Not Classified.

**14.2 UN Proper shipping name:** Not Classified

**14.3 Transport Hazard Class(es):** Not Classified

**14.4 Packing Group:** Not Classified

**14.5 Environmental Hazards:** None

**14.6 Special Precautions for user:** None

**14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC code:** Not Classified

## 15. Regulatory Information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

**EU Regulations**                      Directive 67/548/EC  
   Regulation [EC] 1272/2008  
   Regulation [EC] 1907/2006

**US federal regulations** -This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.

**15.2 Chemical Safety Assessment:** The supplier has not performed a chemical safety assessment of this substance.

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## 16. Other Information

### Indication of changes:

V2.0

1.1 Registered with REACH

V3.0

3.0 Table amended with CLP Information

8.1 PNEC values added

V4.0 Registration Number added

### Key to the H-codes contained in section 3 of this document (for information only):

H319 - Causes serious eye irritation

H410 - Very toxic to aquatic life with long lasting effects



## Abbreviations & Acronyms

<b>PNEC</b>	<b>Predicted No Effect Level</b>
<b>DNEL</b>	<b>Derived No Effect Level</b>
<b>LD50</b>	<b>Median Lethal Dose</b>
<b>LC50</b>	<b>Median Lethal Concentration</b>
<b>CAS No</b>	<b>Chemical Abstract Services number</b>
<b>CLP</b>	<b>Classification Labelling and Packaging Regulation</b>
<b>ES</b>	<b>Exposure Scenario</b>
<b>EC</b>	<b>European Commission</b>
<b>EC No</b>	<b>European Chemical Number – EINECS - ELINCS</b>
<b>ECHA</b>	<b>European Chemical Agency</b>
<b>EINECS</b>	<b>European Inventory of Existing Commercial Chemical Substances</b>
<b>ELINCS</b>	<b>European List of Notified Chemical Substances.</b>
<b>NOEC</b>	<b>No Observed Effect Concentration</b>
<b>SU</b>	<b>Sector of Use</b>
<b>OECD</b>	<b>Organisation for Economic Cooperation and Development</b>
<b>DSD</b>	<b>Dangerous Substances Directive.</b>
<b>PBT</b>	<b>Persistent Bio accumulative Toxic</b>
<b>vPvB</b>	<b>very Persistent very Bio accumulative</b>

## **DISCLAIMER:**

The information and recommendations contained herein are, to the best of Kerax Limited's knowledge and belief, accurate and reliable as of the date issued, but is offered without guarantee or warranty. They relate to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Conditions of use of the material are under the control of the user. Therefore, it is the user's responsibility to satisfy their self as to the suitability and completeness of such information for their own particular use.



## TDS – Cetearyl Alcohol

Information

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### Product Description

Cetostearyl alcohol with an average composition of 30% Cetyl Alcohol, 70% Stearyl Alcohol.

### Physical Properties

Test	Method	Specification
Melting Point °C,	EP 2.2.17	49 - 56
Iodine Value $gI_2/100g$	EP 2.5.4	1.0 Max
Acid Value mg KOH/g	EP 2.5.1	0.1 Max
Saponification Value	EP 2.5.6	1.0 Max
Hydroxyl Value mg KOH/g	EP 2.5.3	210 – 220
Stearyl Alcohol % w/w	EP 2.2.28	65 min
Cetyl & Stearyl Alcohols % w/w	EP 2.2.28	90 min

### Statement

- Formulated from materials whose refining history is fully traceable.
- Does not contain or come into contact with any animal or GMO products at any stage of its manufacture.
- Does not contain residual solvents as per guidelines CPMP/ICH283/95.
- Has not been tested on animals by ourselves or on our behalf.



## Cetearyl Alcohol

## Pharmaceutical Compliance Statement

### Information

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<b>Site Certification:</b>	ISO 9001:2015
<b>Product form</b>	Pastilles or flakes
<b>Storage Conditions:</b>	Store in cool, dry conditions, protected from direct sunlight.
<b>Shelf Life:</b>	When stored in the conditions above, 3 Years from date of manufacture.

Cetearyl Alcohol is a GMO free , vegetable sourced Cetyl Stearyl Alcohol which does not contain residual solvents as per guidelines CPMP/ICH283/95 and is not listed within Regulation (EC) No 1223/2009 Annex II – List of Substances prohibited in Cosmetic Products. We further declare that our products are Dioxin, BPA, Melamine and Phthalate Free.



Cetearyl Alcohol is formulated from materials whose manufacturing history is fully traceable. None of the constituent parts are classed as hazardous. No components present are known carcinogens. It does not contain or come into contact with Ethylene Oxide. None of the constituents are listed under the limitations of the State of California Proposition 65. Metal Catalysts are present during the Hydro finishing stage of the manufacturing process. A mass balance performed at the end of the catalysts life cycle indicates that if there was any loss into the products being produced, the levels will be below detectable limits.

Cetearyl Alcohol is not formulated from or intentionally come into contact with the allergens listed Below.

- Cereals containing gluten and derivatives
- Crustaceans and derivatives
- Eggs and derivatives
- Fish and derivatives
- Peanuts and derivatives
- Soybeans and derivatives
- Milk and dairy products, incl. lactose
- Nuts and derivatives
- Sesame seed and derivatives
- Sulphite at conc. at least 10 ppm
- Celery stalk and leaf
- Charlock and derivatives
- Lupine and derivatives
- Molluscs and derivatives
- Latex

None of the constituent parts have been tested on animals by ourselves or on our behalf.

Cetearyl Alcohol is manufactured from vegetable derived materials and as such do not contain any raw materials produced from, or substances derived from animal origin and as such may be considered to be suitable for the Vegan lifestyle. Moreover, these products are not derived from specific-risk materials as defined in European Commission Decision 97/534/EC.

The manufacturing process does not use any ingredient of animal origin nor does the product come in contact with animal products during storage and transportation.

Cetearyl Alcohol is therefore free from Transmissible Spongiform Encephalopathy (TSE) and Bovine Spongiform Encephalopathy (BSE)

Date 29Sep20