



CERTIFICATE OF ANALYSIS

Product Name: CETEARYL ALCOHOL
Batch Number: 4369901
Best Before End: AUGUST 2022

| Characteristic / Method | Unit | Analysis / Result | Standard |
|------------------------------|-----------|-------------------|--|
| Appearance at 25°C | | Conforms | White to light yellowish pastilles or flakes |
| Acid value | mg KoH/gm | 0.02 | 0.20 max |
| Saponification value | mg KoH/gm | 0.25 | 1.20 max |
| Iodine value | Gm/ 100gm | 0.21 | 0.50 max |
| Hydroxyl value | mg KoH/gm | 213.20 | 205.00 – 222.00 |
| Moisture | % | 0.094 | 0.30 max |
| Solidification/Melting point | °C | 52.00-53.00 | 50.00 – 54.00 |
| C-Chain Distribution | | | |
| C14 | % | 0.06 | 2.00 max |
| C16 | % | 30.47 | 22.00 – 35.00 |
| C18 | % | 67.98 | 65.00 min |
| C20 and Higher | % | 0.58 | 2.00 max |



ALLERGEN STATEMENT
Cetearyl Alcohol

This is to certify that the above mentioned product (INCI: Cetearyl Alcohol) does not contain any of the prohibited allergens listed in Annex III of the Directive 2003/15/EC (7th amendment of the EU Cosmetics Directive), in its subsequent amendments or in the cosmetics Regulation (EC) 1223/2009.

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OVERVIEW

CETEARYL ALCOHOL

Jul 2018

Does not contain: Gluten, Nut. Salicylate free, GMO free and may be classed suitable for vegans [own discretion] Non-Animal tested

REACH registered.

Application areas

Personal Care: Rheology Modifier – Skin Creams & Lotions



SAFETY DATA SHEET

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH) & 1272/2008 (CLP)

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

1.1 Product identifier

| | |
|---------------|-------------------------|
| Chemical Name | <i>Cetearyl Alcohol</i> |
| Other names | Cetostearyl/Stearyl |
| CAS No. | 67762-27-0 |
| EINECS No. | 267-008-6 |

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

| | |
|-------------------|------------------------------|
| Identified use(s) | Emulsifier, Thickening agent |
|-------------------|------------------------------|

| | |
|----------------------|-------------|
| Uses advised against | None known. |
|----------------------|-------------|

1.3 Details of the supplier of the safety data sheet

| | |
|------------------------|---|
| Company Identification | Madar Corporation 19-20 Sandleheath Industrial Estate, Fordingbridge, Hampshire, SP6 1PA, UK Tel: 01425 655555 Email: technical@madarcorporation.co.uk |
|------------------------|---|

2. SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

2.1.1 Regulation (EC) No. 1272/2008 (CLP)

Not classified as dangerous according to EC 1272/2008

2.1.2 Directive 67/548/EEC & Directive 1999/45/EC

Not classified as dangerous according to 67/548/EEC

Not classified as dangerous according to EC 1272/2008

2.2 Label elements

2.2.1 Label elements

| | |
|----------------------------|---------------|
| GHS Product Identifier | Kemol FA1618 |
| Hazard pictogram(s) | Not required |
| Signal word(s) | Not required |
| Hazard statement(s) | None required |
| Precautionary statement(s) | None required |

2.2.2 **Label elements** According to Directive 67/548/EEC : Not applicable

2.3 **Other hazards** Not applicable

2.4 **Additional Information**

3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

EC Classification No. 1272/2008

| Ingredient(s) | %W/W | CAS No. | EC No. | Hazard statement(s) |
|-----------------|------|------------|-----------|---------------------|
| Alcohols C16-18 | 90 % | 67762-27-0 | 267-008-6 | Not classified |

EC Classification No. 67/548/EEC

| Ingredient(s) | %W/W | CAS No. | EC No. | Classification and Risk Phrases |
|-----------------|------|------------|-----------|---------------------------------|
| Alcohols C16-18 | 90 % | 67762-27-0 | 267-008-6 | Not classified |

3.3 Additional Information

For full text of R/H/P phrases see section 16.

4. SECTION 4: FIRST AID MEASURES



4.1 Description of first aid measures

Inhalation

Unlikely route of exposure. Remove persons affected by vapour to fresh air. Apply artificial respiration if breathing has ceased or shows signs of failing. Administer oxygen if necessary. If symptoms develop, obtain medical attention.

Skin Contact

Remove contaminated clothing and wash affected skin with plenty of soap and water. Wash contaminated clothing before reuse. If symptoms develop, obtain medical attention.

Eye Contact

Obtain medical attention. If substance has got into the eyes, immediately wash out with plenty of water for at least 15 minutes.

Ingestion

Obtain medical attention. Provided the patient is conscious, wash out mouth with water and give 200-300 ml (half a pint) of water to drink. Do not induce vomiting without medical advice.

4.2 Most important symptoms and effects, both acute and delayed

Irritation, coughing, nausea, vomiting

4.3 Indication of the immediate medical attention and special treatment needed

Increased difficulty in breathing.

5. SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable Extinguishing Media

Extinguish with carbon dioxide, dry chemical, foam or waterspray.

Unsuitable Extinguishing Media

Water jet

5.2 Special hazards arising from the substance or

Combustible but not readily ignited.

mixture

- 5.3 **Advice for fire-fighters** Self-contained breathing apparatus to be worn if involved in fire. Water spray should be used to cool containers.

6. SECTION 6: ACCIDENTAL RELEASE MEASURES

- 6.1 **Personal precautions, protective equipment and emergency procedures** Put on protective clothing. Avoid contact with skin and eyes. Eliminate sources of ignition.
- 6.2 **Environmental precautions** Do not allow to enter drains, sewers or watercourses.
- 6.3 **Methods and material for containment and cleaning up** Sweep up spilled substance. Transfer to a lidded container for disposal or recovery.
To be disposed of as hazardous waste.
- 6.4 **Reference to other sections** See Section: 8 (Exposure controls / PPE) & 13 (Disposal)

7. SECTION 7: HANDLING AND STORAGE

- 7.1 **Precautions for safe handling** Avoid contact with skin and eyes. Avoid breathing dust. Use only in well-ventilated areas.
- 7.2 **Conditions for safe storage, including any incompatibilities** Keep only in the original container in a cool, well-ventilated place. Keep containers properly sealed when not in use.
Maximum : 30 degC.
One year.
Strong oxidising agents. Strong acids
This product should be kept away from naked flames and other sources of ignition. Keep away from food, drink and animal feedingstuffs.
- Storage Temperature
Storage Life
Incompatible materials
Other information

8. SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational Exposure Limits

WEL: Workplace Exposure Limit (UK HSE EH40)

LTEL (8 hr TWA mg/m³)
LTEL (8 hr TWA mg/m³)

Not listed
Not listed

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Provide adequate ventilation, including appropriate local extraction if dust is likely to be evolved.

8.2.2 Personal protection equipment

Eye/face protection

Safety spectacles/goggles. Minimum standard EN166.



Skin protection (Hand protection/ Other)



Nitrile or butyl gloves. Minimum standard EN374-3.
Apron or other light protective clothing.

Respiratory protection



Provide adequate ventilation, including appropriate local extraction. Personal respiratory equipment is not normally required. If ventilation is inadequate and dust/mist cannot be avoided wear Full-/Half-/quarter-face masks (EN 136/140/141) with Type A filter

Other

General hygiene measures for the handling of chemicals are applicable. Wash hands before breaks and after work.

Wash contaminated clothing before reuse.

8.2.3 Environmental Exposure Controls

Do not allow to enter drains, sewers or watercourses.

9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties (Solution)

| | |
|--|---|
| Appearance | Solid or liquid depending on delivery state |
| Colour | White. |
| Odour | Perceptible odour. Alcohol-like |
| Odour Threshold (ppm) | Not available |
| pH (Value) | Not applicable |
| Melting Point (°C) / Freezing Point (°C) | 48-53 degC |
| Boiling point/boiling range (°C): | 310-360 degC |
| Flash Point (°C) [Closed cup] | 170 degC |
| Evaporation rate (Butyl acetate = 1) | << 1 |
| Explosive limit ranges | Not applicable. |
| Vapour Pressure (mmHg) | < 1 mmHg at 20 degC |
| Vapour Density (Air=1) | Not applicable. |
| Density (g/ml) | 0.82 at 20 degC |
| Solubility (Water) | Insoluble |
| Solubility (Other) | Soluble in: Most organic solvents |
| Partition Coefficient (n-Octanol/water) | Log Kow > 6.7 |
| Auto Ignition Temperature (°C) | 269 degC (Stearyl alcohol) |
| Decomposition Temperature (°C) | > 200 degC |
| Viscosity (mPa.s) | Not applicable |
| Explosive properties | Not explosive. |
| Oxidising properties | Not oxidising |

9.2 Other information

10. SECTION 10: STABILITY AND REACTIVITY

| | |
|---|---|
| 10.1 Reactivity | Reacts with Strong oxidising agents and acids |
| 10.2 Chemical stability | Stable under normal conditions. |
| 10.3 Possibility of hazardous reactions | None known |
| 10.4 Conditions to avoid | High temperatures |
| 10.5 Incompatible materials | Strong oxidising agents. Strong acids |
| 10.6 Hazardous Decomposition Product(s) | None known |

11. SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

11.1.1 Substances

Acute toxicity

Ingestion LD50 > 5 000 mg/kg (rat)(Cetyl alcohol)
LD50 > 2 000 mg/kg (rat)(Stearyl alcohol)

Inhalation (4 hrs) Not available

Skin Contact LD50 : 3 200 mg/kg (rat)(Cetyl alcohol)

Skin corrosion/irritation Not irritant.

Serious eye damage/irritation Slightly irritant.

Respiratory or skin sensitization It is not a skin sensitiser in animal tests.

Mutagenicity There is no evidence of mutagenic potential.

Carcinogenicity No evidence of carcinogenicity.

Reproductive toxicity No evidence of reproductive toxicity.

STOT-single exposure **Inhalation** : Irritation of the respiratory tract. Coughing.

Ingestion : Inflammation of digestive tract

STOT-repeated exposure (91 days) No data

11.2 Other information

12. SECTION 12: ECOLOGICAL INFORMATION

| | |
|--|---|
| 12.1 Toxicity (Fish) (96hrs) (Daphnia magna) (48hrs) (Algae) (72hrs) | NOEC > 0.4mg/l (> limit of solubility)(Stearyl alcohol) EC50 > 0.01 mg/L (> limit of solubility)(Cetyl alcohol) EC50 > 0.01 mg/l (> limit of solubility)(Cetyl alcohol) |
| 12.2 Persistence and degradability | Readily biodegradable. |
| 12.3 Bioaccumulative potential (96 hrs) | The product has moderate potential for bioaccumulation. |
| 12.4 Mobility in soil | This product is predicted to degrade in soil. |
| 12.5 Results of PBT and vPvB assessment | Not classified as PBT or vPvB. |
| 12.6 Other adverse effects | |

13. SECTION 13: DISPOSAL CONSIDERATIONS

| | |
|-------------------------------------|---|
| 13.1 Waste treatment methods | Material to be disposed of as hazardous waste. Normal disposal is via incineration operated by an accredited disposal contractor. Consult an accredited waste disposal contractor or the local authority for advice. |
| 13.2 Additional Information | |

14. SECTION 14: TRANSPORT INFORMATION

| | |
|--|---|
| 14.1 Land transport (ADR/RID) UN number | Not classified according to the United Nations 'Recommendations on the Transport of Dangerous Goods'. |
| 14.2 Sea transport (IMDG) UN number | Not classified according to the United Nations 'Recommendations on the Transport of Dangerous Goods'. |
| 14.3 Air transport (ICAO/IATA) UN number | Not classified according to the United Nations 'Recommendations on the Transport of Dangerous Goods'. |

15. SECTION 15: REGULATORY INFORMATION

| | |
|--|--|
| 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture | |
| 15.1.1 EU regulations Authorisations and/or restrictions on use | None anticipated |
| 15.1.2 National regulations | None assigned |
| 15.2 Chemical Safety Assessment | No Chemical Safety Assessment (CSA) has been carried out |

16. SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: Sections #1 - #16.

References:

European Chemicals Agency
European Chemicals Bureau
European Regulations and Directives
Published chemical directories
Suppliers' safety data sheets
UK Health and Safety Executive
US Environmental Protection Agency

Risk Phrases

None required

Hazard statement(s)

None required

Precautionary statement(s)

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P302 + P352: IF ON SKIN: Wash with plenty of soap and 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.

P312: Call a POISON CENTRE or doctor if you feel unwell.

P337 + P313: If eye irritation persists: Get medical advice/attention.

P362: Take off contaminated clothing and wash before reuse.

P403 + P233: Store in a well-ventilated place. Keep container tightly closed.

Additional Information

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Product Data Sheet

Cetearyl Alcohol Wax

| INCI Name | CAS Number | EINECS |
|------------------|------------|-----------|
| Cetearyl Alcohol | 67762-30-5 | 267-009-1 |

| Parameter | Unit | Specification |
|------------------------------|-----------|--|
| Appearance at 25°C | | White to light yellowish pastilles or flakes |
| Acid value | mg KoH/gm | 0.20 max. |
| Saponification value | mg KoH/gm | 1.20 max. |
| Iodine value | Gm/ 100gm | 0.50 max. |
| Colour | APHA | 10.00 max. |
| Hydroxyl value | mg KoH/gm | 205.00 – 222.00 |
| Moisture | % | 0.30 max. |
| Solidification/Melting point | °C | 50.00 – 54.00 |
| C-Chain Distribution | | |
| C14 | % | 7.00 max. |
| C16 | % | 22.00 - 35.00 |
| C18 | % | 65.00 min. |
| C20 | % | 2.00 max. |
| C22 | % | 1.00 max |

Additional Comment

Storage & Transportation Comments

When stored properly at room temperature **KEMOL FA1618** remains stable for at least 1 year.

Version 1.0 03/07/2013

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