

Safety Data Sheet *according to Regulation n. 453/2010/EC*

1 Identification of the mixture and of the company

Product identifier

Trade name	KEM NAT
Registration n.	Not applicable

Relevant identified uses of the substance and uses advised against

Description	Antimicrobial preserving system
Use conditions	Industrial manufacturing
Applications	Manufacture of cosmetics
Uses advised against	None known


Details of the supplier of the Safety Data Sheet


Company name	Akema Fine Chemicals S.r.l.	
Company address	Via Puglie 12, 47853 Coriano (RN), Italy	
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Fax n.	+39 0541 657134	
Competent person	lab@akema.it	

Emergency telephone n. Centro Antiveleni Pavia: +39 0382 24444 (24 h)

2 Hazards identification

Classification of the mixture / label elements

Classification (1272/2008/EC)	Hazard pictogram	Hazard statements	Precautionary statements
Acute Tox. 4 Eye Irrit. 2	 Warning	H302 Harmful if swallowed. H332 Harmful if inhaled. H319 Causes serious eye irritation	P261 Avoid breathing vapours. P264 Wash hands thoroughly after handling. P280 Wear eye protection. P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Classification (1999/45/EC)	Hazard symbol	Risk phrases
Harmful	 Xn harmful	R20/22 Harmful by inhalation and if swallowed. R36 Irritating to eyes.

Other hazards None

3 Composition/information on ingredients

Substances Not applicable

Mixtures

Components	%	Classification	CAS n°	EINECS n°
Benzyl Alcohol (BA)	35-55	Acute Tox. 4 H302 H332 Xn R20/22	100-51-6	202-859-9
Glyceryl Caprylate (GC)	40-50	None	26402-26-6	247-668-1
Glyceryl Undecylenate(GU)	10-16	Eye Irrit. 2 H319 Xi R36	65684-27-7	236-935-8

4 First aid measures

Description of first aid measures

Inhalation	Remove to fresh air. Consult a physician immediately.
Skin contact	Remove contaminated clothes. Wash off with large amounts of water and soap. If irritation persists consult a physician.
Eye contact	Irrigate immediately under running water with eyelids held open for at least 15 minutes. Consult a physician if irritation occurs.
Ingestion	Rinse mouth. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician immediately.

Most important symptoms and effects, both acute and delayed

Inhalation	May be harmful.
Skin contact	None.
Eye contact	May cause eye irritation.
Ingestion	Harmful. May cause abdominal pain, nausea, vomiting and diarrhea.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically and supportively.

5 Fire-fighting measures

Extinguishing media Carbon dioxide, alcohol resistant foam, dry chemical powder, water spray
Avoid strong water jet.

Special hazards arising from the substance

Formation of carbon monoxide (CO) and carbon dioxide (CO₂) in the event of fire or during thermal decomposition.

Advice for fire-fighters

Wear suitable protective equipment and self-contained breathing apparatus with a full face-piece operated in positive pressure mode.
Use water spray to cool closed containers at risk from fire and, if possible, remove them from the danger area.
Do not discharge contaminated extinguish water into the soil, surface water, groundwater or sewer system.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Use suitable personal protective equipment as recommended in Section 8. Ensure an adequate ventilation. Remove all the ignition sources.

Environmental precautions

Prevent contamination of soil, surface water, groundwater or sewer system.

Methods and material for containment and cleaning up

Wipe up and soak up with inert absorbent material (sand, acid binder, universal binder, sawdust). Collect in suitable container for disposal. Wash contaminated surfaces with water.

Reference to other Sections

Treat recovered material as prescribed in Section 13.

7 Handling and storage

Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practices. Wear personal protective equipment as recommended in Section 8. Ensure an adequate ventilation. Do not breathe the vapours. Avoid contact with eyes.

Conditions for safe storage, including any incompatibilities

Keep away from sources of ignition. Take precautions against accumulation of electrostatic charge. Do not smoke. Keep the original tightly-closed containers in a cool, dry place. Protect from frost, heat and direct sunlight. Avoid temperatures upto 80°C.

Specific end use

See Section 1.

8 Exposure controls / personal protection

Control parameters

None

Exposure controls

Observe the usual precautionary measures in handling the chemicals to keep a minimal exposure. Facilities should be equipped with an eyewash and a safety shower. Wash hands after handling. Remove contaminated clothing and wash before reuse.

Respiratory protection

Use an half-mask respirator with filter A (EN 141) when performing operations involving exposure to vapour or aerosol of the product.

Hand protection

Use chemical resistant protective gloves (EN 374). Recommended PVC gloves. Gloves should be replaced immediately if signs of degradation are observed.

Eye protection

Use safety goggles with side shield (EN 166).

Body protection

Wear light protective and closed working clothing.

9 Physical and chemical data

Information on basic physical and chemical properties

Appearance	Clear liquid
Odour	Slight typical
pH (0.5% in water)	Approx. 5
Melting / freezing point	Not available
Boiling point	Not available
Flash point/flammability	Not available
Explosion limits	Not available
Vapour pressure (20°C)	Not available
Vapour density (air = 1)	Not available
Density (20°C)	Approx. 1.03 g/mL
Solubility in water (20°C)	Very slightly soluble

Other information None

10 Stability and reactivity

Reactivity	None known
Chemical stability	Stable if handled and stored as recommended in Section 7.
Possibility of hazardous reactions	None known
Conditions to avoid	None
Incompatible materials	Strong oxidants.
Hazardous decomposition products	See Section 5.

11 Toxicological information

Information on toxicological effects

Acute oral toxicity (rat)	LD ₅₀ = 1230 mg/kg (BA) LD ₅₀ > 26000 mg/kg (GC) LD ₅₀ > 2000 mg/kg (GU)
Acute dermal toxicity (rabbit)	LD ₅₀ = 2000 mg/kg (BA)
Acute inhalation toxicity (rat)	LC ₅₀ > 500 mg/m ³ (BA)
Skin irritation (rabbit)	Components are non-irritating.
Eye irritation (rabbit)	Irritating
Sensitization (guinea pig)	Components are not sensitizing.
Phototoxicity	Not phototoxic.
Chronical toxicity	No carcinogenic, mutagenic or teratogenic effects known.

12 Ecological information

Toxicity	EC ₅₀ (24h) = 400 mg/L (Crustacean: <i>Daphnia magna</i>) (BA) EC ₅₀ = 658 mg/L (Bacteria: <i>Pseudomonas putida</i>) EC ₅₀ (96h) = 640 mg/L (Algae: <i>Scenedesmus quadricauda</i>) LC ₅₀ (48h) = 646 mg/L (Fish: <i>Leuciscus idus</i>) LC ₅₀ (96h) = 650 mg/L (Fish: <i>Pimephales promelas</i>)
Persistence and degradability	Biodegradable
Bioaccumulative potential	Low bioaccumulation is expected. Log K _{ow} 1.10 (BA)
Mobility in soil	Not available
Results of PBT and vPvB assessment	Not available
Other adverse effects	None known

13 Disposal considerations

Waste treatment methods	Examine possibilities for re-utilization of product. Product residues should be packaged, sealed, labelled and disposed of or incinerated in a suitable installation according to relevant local and national regulations. For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be assigned and only authorized contractors used. Uncontaminated packaging can be re-used. Uncleaned empty containers should be treated in the same manner as the content.
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14 Transport information

UN number	Not classified as a dangerous good.
UN proper shipping name	
Transport hazard class	
Packing group	
Environmental hazards	
Special precautions for user	
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	

15 Regulatory information**Safety, health and environmental regulations/legislation specific for the substance**

Directive 1999/45/EC
Regulation n. 1907/2006/EC (REACH)
Regulation n. 1272/2008/EC (CLP)
D.Lgs 81/2008
Directive 2009/161/EU

Chemical safety assessment (CSR) Not applicable

16 Other information**Modifications**

Bibliography MERCK INDEX, ESIS, ECHA, CIR, NIOSH, RTECS, HDSB.

The information provided in this Safety Data Sheet is based on current knowledge and experience. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, release and disposal. The above data do not imply any guarantee concerning composition, properties or performance.