MATERIAL SAFETY DATA SHEET

CAPB

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1Product identifier

PRODUCT NAME: CAPB

1.2 CHEMICAL NAME: 1-Propanaminium, 3-amino-N-(Carboxymethyl)-N,N-dimethyl-N-acyl derivatives, hydroxides, inner salts

1.3 Recommended use of the chemicals and restriction on use

Product use: This is amphoteric surfactant**.** Used in Shampoo, Liquid Detergents, Liquid Soap, Shower Gel, Bubble Bath, Fire-fighting chemicals

1.4 SUPPLIER DETAILS : GENOME SPECIALITIES FZC

Telephone number:

Emergency telephone number : +

Product Use: This is amphoteric surfactant**.** Used in Shampoo, Liquid Detergents, Liquid Soap, Shower Gel, Bubble Bath, Fire-fighting chemicals

2: Hazardous identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP/GHS)
Serious Eye damage category 1; H318
Skin irritation 2, H315
Chronic aquatic toxicity, Category 3; H412
Classification according to Directive 67/548/EEC (DSD)
Irritant (Xi); R41
Dangerous to the environment, R52/53
Additional information
For the full text of H Statements and R-phrases see section 16.
2.2 Label elements
Labelling according to Regulation (EC) No 1272/2008 (CLP):
Substance name: 1 – propanaminium
3-amino-N-(carboxymethyl)-N, N-dimethyl-N-(C8-18 C18- unsatd. acyl) derivs., hydroxides, inner salts
Hazard pictogram(s):

Signal word: Danger
Hazard Statements: H318 Causes Serious Eye Damage H412 Harmful to aquatic life with long lasting effects
Precautionary statements:
Prevention P273 Avoid release to the environment
P280 Wear eye protection/face protection
P305+P351+P338+P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER or doctor/physician.
Disposal Dispose of contents/container to an approved waste disposal plant.

2.3 Other hazards which do not result in classification

Not available

SECTION 3: Composition / information on ingredients

Substance

3.1 Substance name: 1-propanaminium, 3-amino-N-(carboxymethyl)-N, N-dimethyl-N-(C8-18 and C18 unsatd. acyl) derivs., hydroxides, inner salts

3.2 Common name: Cocamidopropyl betaine

3.3 CAS No: 61789-40-0

EC No: 263-058-8

Solid content(%) : > 34%

Classification: (EC) 1272/2008 [CLP/GHS] :
Eye Dam. 2, H319; Skin irritation 2, H315

3.4 Impurities and stabilizing additives which are themselves classified and which contribute to the clacification of a substance:
There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes: Take off contaminated clothing and shoes immediately.

Following inhalation: Inhalation is not an expected route of exposure. Remove victim to fresh air and keep at rest in a position comfortable for breathing if inhalation occurs. See medical attention if symptoms persist.

Following skin contact: Immediately wash with plenty of soap and water for at least 5 minutes. Seek medical attention. Remove contaminated clothing and shoes. Clean contaminated clothing and shoes before re-use.

Following eye contact: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Seek medical advice if irritation persists.

Following ingestion: Rinse mouth. Get medical aid immediately.

Notes for the doctor: Treat symptomatically and supportively.
Treatment may vary with condition of victim and specifics of incident.

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

Potential acute health effects
Eye contact: Irritating to eyes
Inhalation: No known significant effects or critical hazards
Skin contact: Irritating to skin
Ingestion: May cause irritation to mouth, throat and stomach

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

No information available.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media: on large fires use universal foam or water spray. On small fires use dry chemical, C02. Water can be used to cool fire exposed containers.
Unsuitable extinguishing media: Water jet is not recommended.

5.2 Special hazards arising from the substance or mixture.

Hazards from the substance or mixture: In a fire or if heated, a pressure increase will occur and the container may burst.

5.3 Advice for fire-fighters

Special protective equipment for fire-fighters:Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-pieceoperated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Wear proper protective equipment. Avoid eye, face and skin contact. Do not take internally.
6.2 Environmental precautions
Avoid dispersal of spilt material and runoff and contact with soil, waterways,drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
6.3 Methods and material for containment and cleaning up.
Small spill : Stop leak if without risk. Move containers from spill area. Dilute with water andmop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of viaa licensed waste disposal contractor.
Large spill: Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows.Contain and collect spillage with non-combustible, absorbent material e.g. sand,earth, vermiculite or diatomaceous earth and place in container for disposalaccording to local regulations
6.4 Reference to other sections.
See section 7 for information on safe handling.
See section 8 for information on personal protection equipment .
See section 13 for information on disposal .

SECTION 7: Handling and storage

7.1 Precautions for safe handling.
Avoid direct or prolonged contact with skin and eyes. Do not take internally.
7.2 Conditions for safe storage, including any incompatibilities
SHIP AND STORE BETWEEN 0-30^{o}C . if the storage temperature is less than or equal to 0^{o}C, the product will be frozen, but after thawing at room temperature (10-25^{o}c) and mix until uniform, it can be used. If the storage temperature is equal to or more than 30^{o}C, small amount of actives will be crystallized and separate out, store at room temperature (10-25^{o}c) and mix until uniform, the crystallized activities can be dissolved, then It can be used as normal. Store in tightly closed containers. Store in an area that is dry, well ventilated, away from incompatible materials (see section 10, stability and reactivity). Expected shelf life if stored at recommended temperatures: 24 months.

7.3 Specific end use(s): Cosmetics additive, surfactant
This product has been designed to operate as a surfactant and may offer one or more of the following properties: wetting,foaming, emulsification, dispersing and detergency.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters
Occupational exposure limit values:
No occupational exposure limit values established
DNEL (Derived no Effect Level) for workers
Workers Long-term systemic effects (Skin contact): 12.5 mg/kg bw/day
Workers Long-term systemic effects (Inhalation): 44 mg/m3
DNEL (Derived no Effect Level) for the general population
Consumers Long-term systemic effects (Skin contact): 7.5 mg/kg bw/day
Consumer Long-term systemic effects (Ingestion): 7.5 mg/kg bw/day

PNEC (Predicted No Effect Concentration) Values:

PNEC (Predicted No Effect Concentration) Values: Fresh water	0.0135 mg/l
Marine water	0.00135 mg/l
Sewage treatment plant (STP)	3000 mg/l
Fresh water sediment	1 mg/kg d.w.
Marine sediment	0.1 mg/kg d.w.
Soil	0.8 mg/kg d.w.

8.2 Exposure controls
Appropriate engineering controls: Provide appropriate exhaust ventilation at places.

8.3 Personal protective equipment:
Eye and face protection: Wear safety glasses with side shields or splash proof goggles. (ANSI Z87 approved). An emergency eye wash is necessary.
Skin protection: Use proper protection - gloves and suitable long-sleeved clothing (i.e., shirts and pants) as a minimum.
Hand protection: Protective gloves.
Respiratory protection: If ventilation is insufficient, suitable respiratory protection must be provided
Environmental exposure Controls : Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must Prevent further leakage or spillage if safe to do so. Do not let product enter drains.Discharge into the environment must be avoided.
Industrial hygiene: Exercise good industrial hygiene practice. Wash after handling, especially before eating, drinking or smoking.

SECTION 9: Physical and chemical properties

Appearance:	Liquid
Colour:	Pale yellow
Odour:	Characteristic
pH（25℃，10% aqueous solution）:	4.0 - 7.0
Melting point:	No data available.
Freezing point:	＜0℃
Boiling point:	＞100℃ at 760 mmHg
Density:	1.06g/cm³
Vapour pressure:	No data available.
Partition coefficient (n-octanol/water):	No data available.
Solubility(ies):	Soluble
Flash point:	＞93.9℃ (201 F).
Auto-ignition temperature:	No data available.
Flammability:	Non flammable.
Explosive properties:	No data available.
Oxidising properties:	Not considered as oxidizing.
Evaporation rate :	No data available.
Viscosity:	≤500 mPa.s(25℃)
Specific gravity	No data available.
Decomposition temperature	Not available

9.2 Other information
Not available

SECTION 10 : Stability and reactivity

10.1 Reactivity
Stable under normal temperature and pressures.
10.2 Chemical stability
Stable under normal temperature and pressures.
10.3 Possibility of hazardous reactions
Hazardous polymerization will not occur.
10.4 Conditions to avoid
Heat, open flame, spark.
10.5 Incompatible materials
Strong acids, strong oxidizing agents.
10.6 Hazardous decomposition products.
Carbon oxides, nitrogen oxides (NOx).

SECTION 11 : Toxicological Information

11.1 Information on toxicological effects
Toxicokinetics, metabolism and distribution
No relevant information available.
Skin corrosion/irritation:
Slightly irritating. May cause redness, irritation.
Serious eye damage/irritation:
No data available.
Respiratory or skin sensitization:
No data available.
CMR effects (Carcinogenicity, Mutagenicity and Toxicity for Reproduction):
No data available.
STOT-single exposure and repeated exposure:
No data available.
Additional information:
No relevant information available.
11.2 Symptoms related to the physical, chemical and toxicological characteristics
Inhalation No specific data
Ingestion No specific data
Skin contact Adverse symptoms may include irritation and redness
Eye contact Adverse symptoms may include irritation, watering, redness
11.3 Delayed and immediate effects and also chronic effects from short and long-term exposure
Not available
11.4 Numerical measures of toxicity
Acute Oral toxicity: LD50≥2000mg/kg (rat)

SECTION 12 : Ecological Information

12.1 Toxicity
No data available.
12.2 Persistence and degradability:
Readily biodegradable (Directive 84/449/EEC,C.5"Biotic degradation-modified sturm test").
12.3 Bioaccumulative potential
LD50>2000mg/kg(Mouse)
12.4 Mobility in soil
No data available.
12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment information is not available as chemical safety assessment not conducted.
12.6 Other adverse effects
No relevant information available.

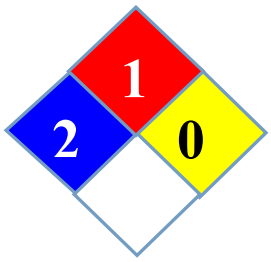
13: Disposal considerations

13.1 Waste treatment methods
Product disposal: Dispose of in accordance with local regulations.
Packaging disposal: Any containers of equipment used should be decontaminated immediately after use.

14: Transportation Information

14.1 UN Number Not regulated
14.2 UN proper shipping name Sulfotain CAP (Coco Amido Propyl Betaine)

14.3 Transport hazard class



14.4 Packing group Not applicable
14.5 Environmental hazards None
14.6 Special precautions for user Not available
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code: Not available

15: Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture.
EU regulation: Authorisations: No information available.
Restrictions on use: No information available.
EINECS: CAS# 61789-40-0 is not listed in the inventory
DSD (67/548/EEC): CAS# 61789-40-0 is not listed in the inventory.
15.2 Chemical Safety Assessment
No Chemical Safety Assessment has been carried out for this substance.

16: Other information

16.1 Abbreviations and acronyms
CLP: EU regulation (EC) No 1272/2008 on classification, labelling and packaging of chemical substances and mixtures.
CAS: Chemical Abstracts Service (division of the American Chemical Society).
EINECS: European Inventory of Existing Commercial Chemical Substances.
IMDG: International Maritime Code for Dangerous Goods.
IATA: International Air Transport Association.
OSHA: The United States Occupational Safety and Health Administration.
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