

**MATERIAL SAFETY DATA SHEET**  
**GENAGEN CAB**

Page 1

Substance key: SXR024630  
Version : 1 - 4 / USARevision Date: 01/14/2008  
Date of printing :01/15/2008**Section 01 - Product Information****Identification of the company:**Clariant Corporation  
4000 Monroe Road  
Charlotte, NC, 28205  
Telephone No.: +1 704-331-7000**Information of the substance/preparation:**

Product Safety 1-704-331-7710

**Emergency tel. number:** +1 800-424-9300 CHEMTREC

**Trade name:** GENAGEN CAB

**CAS number:** 70851-07-9

**Primary product use:** Surface active agent for cosmetics

**Chemical family:** Coco amido propyl betaine

**Section 02 - Composition information on hazardous ingredients****Hazardous ingredients:**

| Component   | CAS-no. (Trade secret no.) | Concentration |
|-------------|----------------------------|---------------|
| Genagen CAB |                            | 100 %         |

**Section 03 - Hazards identification**

**Emergency overview:** clear colorless to light yellow liquid  
Eye irritant.

**Expected Route of entry:**

**Inhalation:** Vapors and/or mists are probably irritating to respiratory passages, nose, and throat.

**Skin contact:** Not expected to be irritating to skin.  
The acute dermal toxicity of this product is greater than 1000 mg/kg. This product is not toxic by skin absorption.

**Eye contact:** May cause eye irritation.

**Ingestion:** Not expected to be toxic.

**Skin absorption:** no

**Known effects on other illnesses:** None known.

**Listed carcinogen:** IARC: No  
NTP: No  
OSHA: No  
Other: No

**MATERIAL SAFETY DATA SHEET**  
**GENAGEN CAB**

Page 2

Substance key: SXR024630  
Version : 1 - 4 / USARevision Date: 01/14/2008  
Date of printing :01/15/2008**HMIS:**

Health: 2

Flammability: 1

Reactivity: 0

Personal protection: D

**Section 04 - First aid measures****After inhalation:**

Get victim to fresh air. Give artificial respiration or oxygen if breathing has stopped. Get prompt medical attention. Do not give fluids if victim is unconscious.

**After contact with skin:**

Wash thoroughly with soap and water for 15 minutes. If skin irritation occurs, seek medical attention.

**After contact with eyes:**

Flush thoroughly with water for 15 minutes. Get immediate medical help.

**After ingestion:**

Seek medical attention immediately.

**Advice to doctor / Treatment:**

None known.

**Section 05 - Fire fighting measures**

**Flashpoint:** > 212 °F  
Method: DIN 51758 (closed cup)

**Lower explosion limit:** not tested.

**Upper explosion limit:** not tested.

**Self ignition:** Not applicable

**Ignition temperature:** not tested.

**Hazardous combustion products:**

In case of fires, hazardous combustion gases are formed: Carbon monoxide (CO)  
Nitrous gases (NO<sub>x</sub>)

**Extinguishing media:** water spray jet  
foam  
carbon dioxide  
dry powder

**Special fire fighting procedure:**

Use self-contained breathing apparatus and full protective clothing.

**Section 06 - Accidental release measures****Steps to be taken in case of spill or leak:**

Contain spill. Ensure adequate ventilation and wear appropriate personal protective equipment. Collect onto inert absorbent. Place in sealable container. Do not allow to contaminate water sources or sewers.

**MATERIAL SAFETY DATA SHEET**  
**GENAGEN CAB**

Page 3

Substance key: SXR024630  
Version : 1 - 4 / USARevision Date: 01/14/2008  
Date of printing :01/15/2008**Section 07 - Handling and storage****Advice on safe handling:**

Sensitive to frost: If product becomes opaque, thickening, or frozen it can be slowly thawed at room temperature and ready for use after a short stirring time. Avoid skin and eye contact.

**Further info on storage conditions:**

Keep containers closed.

**Section 08 - Exposure controls / personal protection**

No level has been established by OSHA, NIOSH, ACGIH.

|                                    |  |
|------------------------------------|--|
| <b>Respiratory protection:</b>     | If airborne concentrations pose a health hazard, become irritating, or exceed recommended limits, use a NIOSH approved respirator in accordance with OSHA respiratory protection requirements under 29CFR1910.134. |
| <b>Hand protection:</b>            | Butyl Rubber.  |
| <b>Eye protection:</b>             | Chemical splash goggles.   |
| <b>Other protective equipment:</b> | Clothing suitable to prevent skin contact.   |

**Section 09 - Physical and chemical properties**

|                                |  |
|--------------------------------|--|
| <b>Form:</b>                   | Liquid   |
| <b>Color:</b>                  | colourless to yellowish  |
| <b>Odor:</b>                   | slight, original odour   |
| <b>pH:</b>                     | 4 - 5 (20 °C, 10 g/l)  |
| <b>Solubility in water:</b>    | (20 °C)<br>soluble   |
| <b>Soluble in ... :</b>        | fat<br>not tested.   |
| <b>Density:</b>                | approx. 1.05 g/cm <sup>3</sup> (20 °C)<br>Method: DIN 51757        |
| <b>Pourpoint :</b>             | 26 °F<br>Method: DIN/ISO 3016                                      |
| <b>Solidifying Point :</b>     | 22 °F  |
| <b>Boiling point :</b>         | approx. 212 °F<br>Based on water-content.                          |
| <b>Vapor pressure:</b>         | approx. 22.51 Torr (25 °C)<br>Corresp. to vapour pressure of water |
| <b>Bulk density:</b>           | Not applicable   |
| <b>Relative vapor density:</b> | not tested.  |

**MATERIAL SAFETY DATA SHEET**  
**GENAGEN CAB**

Page 4

Substance key: SXR024630  
Version : 1 - 4 / USARevision Date: 01/14/2008  
Date of printing :01/15/2008

|  |  |
|--|--|
| <b>Partitioning coef. octanol/water:</b> | Not applicable                         |
| <b>Viscosity / (dynamic):</b>            | 200 mPa.s (23 °C)<br>Method: DIN 53015 |
| <b>Viscosity / (kinematic):</b>          | not tested.                            |

**Section 10 - Stability and reactivity**

|                                  |                                |
|----------------------------------|--------------------------------|
| <b>Thermal decomposition:</b>    | No decomposition up to 260 °C. |
| <b>Chemical stability:</b>       | Stable.                        |
| <b>Hazardous Polymerization:</b> | Will not occur.                |

**Section 11 - Toxicological information**

|                                   |  |
|-----------------------------------|--|
| <b>Product information:</b>       |  |
| <b>Acute oral toxicity:</b>       | LD50 > 2,000 mg/kg (rat)<br>Source: CESIO  |
| <b>Acute inhalation toxicity:</b> | not tested.  |
| <b>Acute dermal toxicity:</b>     | not tested.  |
| <b>Skin irritation:</b>           | non-irritant (rabbit)<br>By analogy with a similar product.                            |
| <b>Eye irritation:</b>            | irritant (rabbit eye)<br>By analogy with a similar product.                            |
| <b>Sensitization:</b>             | non-sensitizing (Guinea pig)<br>Method: OECD 406<br>By analogy with a similar product. |

**Section 12 - Ecological information**

|                             |   |
|-----------------------------|---|
| <b>Product information:</b> |   |
| <b>Biodegradation:</b>      | 92 % (28 d)<br>Method: OECD 301 E<br>The product is readily biodegradable according to OECD criteria. |
| <b>Biodegradation:</b>      | 80 % (28 d)<br>Method: OECD 301 B<br>Source: Analogy  |
| <b>Biodegradation:</b>      | > 80 %<br>Method: OECD 302 B  |
| <b>Fish toxicity:</b>       | LC50 1 - 10 mg/l (96 h, zebra fish)<br>Method: OECD 203<br>Source: Analogy                            |

**MATERIAL SAFETY DATA SHEET**  
**GENAGEN CAB**

Page 5

Substance key: SXR024630  
Version : 1 - 4 / USARevision Date: 01/14/2008  
Date of printing :01/15/2008

|  |   |
|--|---|
|  | NOEC 0.5 mg/l (28 d, rainbow trout)<br>Method: OECD 204<br>Source: literature   |
| <b>Daphnia toxicity:</b>               | NOEC 0.1 mg/l (21 d, Daphnia magna)<br>Method: OECD 202<br>Source: literature   |
| <b>Algae toxicity:</b>                 | EC50 10.5 mg/l (72 h, Desmodesmus subspicatus)<br>Method: OECD 201<br><br>NOEC 1 mg/l (72 h, Desmodesmus subspicatus)<br>Method: OECD 201 |
| <b>Bacteria toxicity:</b>              | EC50 > 1,000 mg/l (Pseudomonas putida)<br>Method: DIN 38412 T.8   |
| <b>Dissolved organic carbon (DOC):</b> | 196 mg/g  |
| <b>Chemical oxygen demand (COD):</b>   | 474 mg/g  |

**Section 13 - Disposal considerations****Waste disposal information:**

Recommended disposal is by incineration in approved facilities.

**RCRA hazardous waste:**

No -- Not as sold.

**Section 14 - Transport information**

|             |                |
|-------------|----------------|
| <b>DOT</b>  | not restricted |
| <b>IATA</b> | not restricted |
| <b>IMDG</b> | not restricted |

**Section 15 - Regulatory information****TSCA Status:**

All components of this product are listed on the TSCA Inventory.

**SARA (section 311/312):**

|                  |     |
|------------------|-----|
| Reactive hazard: | no  |
| Pressure hazard: | no  |
| Fire hazard:     | no  |
| Immediate/acute: | yes |
| Delayed/chronic: | no  |

**Clean Water Act:**

Contains no known priority pollutants at concentrations greater than 0.1%.

# MATERIAL SAFETY DATA SHEET

## GENAGEN CAB

Page 6

Substance key: SXR024630  
Version : 1 - 4 / USA

Revision Date: 01/14/2008  
Date of printing :01/15/2008

### Section 16 - Other information

#### Label information:

CAUTION!

MAY CAUSE IRRITATION TO EYES.

Avoid breathing fumes, vapors, mists, or spray. Avoid contact with skin, eyes and clothing. Do not swallow. Use with adequate ventilation and/or approved respiratory protection. Wear proper protective equipment. Wash thoroughly after handling. Keep container closed when not in use.

Skin contact: wash thoroughly with soap and water. Seek medical attention if irritation continues. Eye contact: flush with water for at least 15 minutes while holding eyelids open. Seek immediate medical attention. INGESTION: Seek medical attention immediately. Inhalation: remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if respiratory irritation continues.

This information is supplied under the OSHA Hazard Communication Standard, 29 CFR 1910.1200, and is offered in good faith based on data available to us that we believe to be true and accurate. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable to the material. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate for that use. No warranty, express or implied, is made regarding the accuracy of this data, the hazards connected with the use of the material, or the results to be obtained from the use thereof. We assume no responsibility for damage or injury from the use of the product described herein. Data provided here are typical and not intended for use as product specifications. (R) and TM indicate trademarks of Clariant AG, its business partners or suppliers.