Material Safety Data Sheet

COCAMIDOPROPYL BETAINE

PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: COCAMIDOPROPYL BETAINE

INCI NAME: COCOAMIDOPROPYL BETAINE

SUPPLIER: Candora Soap and Soap Supplies
85 Midpark Rd # 6 London, Ontario. Canada N6N 1B2
www.candorasoap.ca

IN CASE OF EMERGENCY:
AMERICAN ASSOCIATION OF POISON CONTROL CENTERS POISON HELP LINE (800) 222-1222

COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>COMPOSITION</th>
<th>CAS#</th>
<th>%</th>
<th>EC SYMBOL</th>
<th>EC R-PHRASES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>63 – 67</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cocoamidopropyl Betaine</td>
<td>61789-40-0</td>
<td>29 – 31</td>
<td>Xi, Xn</td>
<td>R22/36</td>
</tr>
<tr>
<td>Sodium Chloride</td>
<td>7647-14-5</td>
<td>4 – 6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Glycerin</td>
<td>56-81-5</td>
<td>&lt; 3</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Sodium Benzoate (SB)</td>
<td>532-32-1</td>
<td>&lt; 1</td>
<td></td>
<td>R20/21/22; R36/38; R63</td>
</tr>
<tr>
<td>(Contains &lt; 1%)</td>
<td></td>
<td></td>
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HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

OVERVIEW: Moderately irritating to the eyes
Contact with skin may cause irritation
May cause irritation to respiratory tract

POTENTIAL HEALTH EFFECTS:

EYES: Moderately irritating to eyes.
SKIN: May cause irritation.
INHALATION: Inhalation of vapors or mists may be irritating to the respiratory system.
INGESTION: Ingesting large amounts may produce gastrointestinal disturbances including irritation, nausea and diarrhea.

HAZARD SYMBOLS: Xi: Irritant
Xn: Harmful

R PHRASES: R22: Harmful if swallowed
R36: Irritating to eyes

S PHRASES: S26: In case of eye contact, rinse immediately with plenty of water and seek medical attention
FIRST AID MEASURES

PROCEDURE:

EYE CONTACT: Immediately flush with plenty of water for at least 15 minutes
If irritation persists, seek medical attention

SKIN CONTACT: Flush with large amounts of water
Immediately take off all contaminated clothing
If irritation persists, seek medical attention
Wash clothing separately before reuse

INHALATION: If symptoms are experienced, remove source of contamination or move victim to fresh air
If affected person is not breathing, perform artificial respiration
If symptoms persist, seek medical attention
If breathing is difficult, give oxygen and seek medical attention immediately

INGESTION: If ingestion of a large amount occurs, seek medical attention
Do not induce vomiting

FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA: Water fog, foam, dry chemical powder, carbon dioxide (CO₂)

FIRE FIGHTING PROTECTION: Wear protective equipment and self-contained breathing apparatus.
Demand MSHA/NIOSH (approved or equivalent) and full protective gear.

ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Isolate area
Keep unnecessary personnel away
Stay upwind
Keep out of low areas
Ventilate closed spaces before entering

ENVIRONMENTAL PRECAUTIONS: Prevent further leakage or spillage if sage to do so

CONTAINMENT METHODS: Prevent entry into waterways, sewers, basements or confined areas

METHODS FOR CLEAN UP:
SMALL SPILLS: Use a non-combustible material like vermiculite, sand or earth to soak up the product
Place into a container for later disposal

HANDLING AND STORAGE

HANDLING: Avoid contact with eyes and skin
Wash hands thoroughly after handling

STORAGE: Store in a cool, well-ventilated place
Keep temperatures between 10°C - 50°C (50°F - 122°F)

EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: Use general ventilation
Local exhaust is suggested for use, where possible, in enclosed or confined spaces

PERSONAL PROTECTION:
GENERAL: Eye wash, fountain and emergency showers are recommended
EYES/FACE: Wear chemical goggles and face shield
SKIN: Wear suitable protective clothing and impervious gloves
RESPIRATORY: If ventilation is not sufficient to effectively prevent build-up of aerosols or vapors, appropriate NIOSH/MSHA respiratory protection must be provided
PHYSICAL / CHEMICAL CHARACTERISTICS

PHYSICAL STATE: Liquid
FORM: Liquid
pH: 5.0 – 7.0
BOILING POINT °C: 100°C / 212°F (PMCC)
FREEZING POINT °C: 10°C (14°F)
FLASH POINT °C: >93.9°C (>201°F)
EVAPORATION RATE: Estimate slower than ethyl ether
AUTO-IGNITION TEMPERATURE: Not applicable
    LOWER EXPLOSION LIMIT: Not applicable
    UPPER EXPLOSION LIMIT: Not applicable
VAPOR PRESSURE: Not determined or unknown
VAPOR DENSITY: Estimate heavier than air
SPECIFIC GRAVITY: 1.0456 g/ml
RVOC %: 0
POUR POINT: -7°C (19.4°F)
VISCOSITY: 13 cps @ 25°C
VOLATILE %: 63 – 67

STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable at normal conditions
INCOMPATIBLE MATERIAL: Strong oxidizing agents
    May react with strong alkalis
HAZARDOUS DECOMPOSITION PRODUCTS: Upon decomposition, product may yield oxides of nitrogen, ammonia and carbon dioxide
HAZARDOUS REACTION POSSIBILITY: Will not occur

TOXICOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>PRODUCT</th>
<th>TEST RESULTS</th>
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<tr>
<td>Cocoamidopropyl Betaine SB</td>
<td>Acute oral LD50 Rat: 500 – 1500 mg/kg</td>
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</table>

* Estimates for product may be based on additional component data not shown

CARCINOGENICITY: Not considered to be a carcinogen per IARC, ACGIH, NTP or OSHA
MUTAGENICITY: Not mutagenic in Ames Test

DISPOSAL CONSIDERATIONS

METHODS OF DISPOSAL: Dispose of in accordance with local, federal and state environmental regulations. Regulations may vary.

ECOLOGICAL INFORMATION

Not available

TRANSPORT INFORMATION

Refer to bill of lading or contained label for DOT or other transport hazard classification.

UN#: Not applicable
LAND ROAD / RAILWAY:
    ADR/RID CLASS: Chemicals N.O.S. (non-regulated)
    ADR/RID ITEM#: Chemicals N.O.S. (non-regulated)
INLAND WATERWAYS:  
ADNR CLASS: Chemicals N.O.S. (non-regulated)

SEA:  
IMDG CLASS: Chemicals N.O.S. (non-regulated)  
IMDG PAGE#: Chemicals N.O.S. (non-regulated)

AIR:  
IATA-DGR CLASS: Chemicals N.O.S. (non-regulated)

NATIONAL TRANSPORT REGULATIONS: Chemicals N.O.S. (non-regulated)

REGULATORY INFORMATION

Product is listed on the following inventories:
- TSCA (Toxic Substances Control Act): USA
- AICS (Australia Inventory of Chemical Substances): Australia
- DSL (Domestic Substances List): Canada
- IECSC (Inventory of Existing Chemical Substances): China
- EINECS/ELINCS (EU Consolidated Inventories): European Union
- EINECS (European Inventory of Existing Commercial Substances): European Union
- ENCS (Inventory of Existing & New Chemical Substances): Japan
- KECI (Korea Existing Chemicals Inventory): Korea
- NZIoC (New Zealand Inventory of Chemical): New Zealand
- PICCS (Philippines Inventory of Chemicals and Chemical Substances): Philippines

REPORTABLE QUANTITY: There is no calculable reportable quantity (RQ) for this product.

CERCLA (Superfund) REPORTABLE QUANTITY: None

Superfund Amendments and Reauthorization Act of 1986 (SARA):
- Section 302 Extremely Hazardous Substance: No
- Section 311 Hazardous Chemical: No

U.S. Pennsylvania RTK Hazardous Substances: Glycerin (CAS#56-81-5) Listed

EC REGULATIONS: Not available
EC CLASSIFICAION: Not available
LABEL NAME: Cocoamidopropyl Betaine (CAPB)

HAZARD SYMBOLS:  
Xi: Irritant  
Xn: Harmful

R-PHRASES:  
R22: Harmful if swallowed  
R36: Irritating to eyes

S-PHRASES:  
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical attention.

OTHER INFORMATION:

HMIS RATING:  
Health: 1  
Flammability: 1  
Reactivity: 0  
Personal Protection: B

The data herein are based on our current knowledge and believed to be reliable. Candora Soap and Soap Supplies provides this information without any representation or warranty, expressed or implied, regarding its accuracy or correctness.

Users must make their own determination that handling, storage and use of the product in the anticipated manner is safe and appropriate. Because these actions of the user are out of our control, and may be beyond our knowledge, we do not assume responsibility and expressly disclaim liability for loss, damage, expense or any other claim arising out of or in any way connected with the handling, storage, use or disposal of the product.

Disposal of containers must comply with applicable federal, state and local laws and regulations. Empty containers should never be given to Individuals.