



273 St. Zotique E.,
Montréal, Québec H2S 1L4
www.coopcoco.ca
514-270-0539

SAFETY DATA SHEET

SECTION I - PRODUCT IDENTIFICATION

Product name	Coco betaine
Synonyms and other names	Coconut Betaine, coco alkydimethyl betaines, amphoteric surfactant
Recommended uses	Shampoo, conditioner, body wash etc.
Material uses	Not applicable.
Supplier	Coop Coco & Calendula 273 Rue Saint-Zotique E, Montréal, QC H2S 1L4
Emergency number	Poison control Centre: 1-800-463-5060

SECTION 2 - HAZARDS IDENTIFICATION

Product classification (WHMIS 2015)	Skin corrosion/irritation - Class 2 Serious eye damage/eye irritation - Class 1 Hazardous to the aquatic environment - acute - Class 2 Hazardous to the aquatic environment - chronic - Class 3
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Hazards information	<u>Signal Word:</u> Danger
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Hazard Statement:

Causes serious eye damage (H318).
Causes skin irritation (H315).
Harmful to aquatic life with long lasting effects (H412).
Toxic to aquatic life (H401).

Precautionary Statements (Prevention):

Wear protective gloves and eye/face protection (P280).
Avoid release to the environment (P273).
Wash with plenty of water and soap thoroughly after handling (P264).

Precautionary Statements (Response):

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing (P305 + P351 + P338).
Immediately call a POISON CENTER or doctor/physician (P310).
IF ON SKIN (or hair): Wash with plenty of soap and water (P303 + P352).
Take off contaminated clothing and wash it before reuse (P362 + P364).

Precautionary Statements (Disposal):

Dispose of contents/container to hazardous or special waste collection point (P501).

Other information	Not applicable.
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SECTION 3 - COMPOSITION/ INFORMATION ON INGREDIENTS

INCI	Coco betaine		
Composition	<u>Ingredients</u>	<u>CAS number</u>	<u>weight %</u>
	1-Dodecanaminium, N-(carboxymethyl)-N,N-dimethyl-, inner salt	0683-10-3	>= 20.0 - < 25.0%
	1-Tetradecanaminium, N-(carboxymethyl)-N,N-dimethyl-, inner salt	2601-33-4	>= 7.0 - < 10.0%
	C12-14-alkyldiméthylamine	84649-84-3	>= 1.0 - < 3.0%
	Acetic acid, hydroxy-, monosodium salt	2836-32-0	>= 1.0 - < 3.0%

SECTION 4 - FIRST AID MEASURES

Eye contact	Wash affected eyes for at least 15 minutes under running water with eyelids held open. Do not rub eyes; mechanical action may cause corneal damage. Immediate medical attention required.
Skin contact	After contact with skin, wash immediately with plenty of water and soap. Change contaminated clothing and shoes. Wash contaminated clothing before reuse. If irritation should develop, seek medical attention.
Inhalation	Remove victim to fresh air and away from exposure immediately. If breathing has stopped, administer artificial respiration. Immediate medical attention required.
Ingestion	Do not induce vomiting. Call a poison control center or physician for treatment advice. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions.
Most important symptoms and effects, both acute and delayed	Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11., Further important symptoms and effects are so far not known. Hazards: No hazard is expected under intended use and appropriate handling.

SECTION 5 - FIRE AND EXPLOSION DATA

Fire extinguishing procedures	Suitable extinguishing media: water spray, carbon dioxide, dry powder, foam
Special remarks on fire/explosion hazards	Hazards during fire-fighting: harmful vapours Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire
Fire fighting media and instructions	Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.



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SECTION 6 - ACCIDENTAL RELEASE MEASURES

Protective clothing in case of spill and leak	Use personal protective clothing.
Environmental precautions	Do not discharge into drains/surface waters/groundwater.
Methods and material for containment and cleaning up	For small amounts: Pick up with suitable absorbent material. For large amounts: Dike spillage. Pump off product. Dispose of absorbed material in accordance with regulations.

SECTION 7 - HANDLING AND STORAGE

Handling precaution	Handle in accordance with good industrial hygiene and safety practice. Protection against fire and explosion: Take precautionary measures against static discharges. Avoid all sources of ignition: heat, sparks, open flame.
Storage precaution	No applicable information available. Suitable materials for containers: High density polyethylene (HDPE). Further information on storage conditions: Keep container tightly closed and dry; store in a cool place. Below temperature limit the product properties will change. The property change is reversible by stirring and heating. Please refer to the technical leaflet for further information. A reduction of the active matter is possible. Please check! Above temperature limit the product properties change. Store protected against freezing. Do not mix or store this product steel containers. Protect from temperatures below: 0 °C Characteristics of the product are reversibly changed when falling below the limit temperature. Protect from temperatures above: 40 °C Properties of the product change reversibly on exceeding the limit temperature.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits	No occupational exposure limits known
Engineering controls	Ensure adequate ventilation.
<u>Personal protection :</u>	
Inhalation	Not applicable with adequate ventilation. Wear a NIOSH-certified (or equivalent) respirator as necessary. Follow manufacturer's recommendations.
Skin	Hand protection: Plastic gloves, Rubber gloves Body protection: Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).



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Eye	Tightly fitting safety goggles (splash goggles) (e.g. EN 166)
Other personal protective equipment	Handle in accordance with good industrial hygiene and safety practice. No eating, drinking, smoking or tobacco use at the place of work. Handle in accordance with good industrial hygiene and safety practice.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical state and appearance	Liquid, light yellow.
Odor	Slight odour.
Odor threshold	Not applicable.
pH	6.0 - 8.0 (20 °C)
Melting Point	< 0 °C
Boiling Point	> 100 °C
Flash point	> 101 °C
Evaporation rate	Not applicable.
Flammability	Not flammable.
Flammable limits	For liquids not relevant for classification and labelling.
Vapor pressure	Not determined.
Vapor density	Not applicable.
Relative density	1.025 - 1.035 g/cm ³ (20 °C)
Solubility	Soluble solvent(s): distilled water.
Partitioning coefficient n-octanol/water (log Pow)	0.4 (20 °C)
Auto-ignition temperature	Not determined.
Decomposition temperature	Not determined.
Viscosity	Not determined.

SECTION 10 - STABILITY AND REACTIVITY DATA

Stability	The product is stable if stored and handled as prescribed/indicated.
Reactivity	No hazardous reactions if stored and handled as prescribed/indicated. Oxidizing properties: not fire-propagating.
Possibility of hazardous reactions	Reacts with oxidizing agents. Reacts with bases. Reacts with strong acids.



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Conditions of instability	See MSDS section 7 - Handling and storage.
Incompatibility with substances	No substances known that should be avoided.
Decomp. products	Decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated. Thermal decomposition: No decomposition if stored and handled as prescribed/indicated.

SECTION 11 - TOXICOLOGICAL INFORMATION

Routes of entry	Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases. Primary routes of entry Dermal contact.
Acute effects	Acute toxicity Assessment of acute toxicity: May be harmful if swallowed in large quantities. No data available. Virtually nontoxic after a single ingestion. Virtually nontoxic after a single skin contact. Assessment of STOT single: Based on available Data, the classification criteria are not met.
Eye	Species: rabbit Result: Severely irritating. Method: OECD Guideline 405 Assessment of irritating effects: May cause severe damage to the eyes.
Skin	LD50 : > 2,000 mg/kg Skin Species: rabbit Result: Irritant. Method: OECD Guideline 404 May cause severe damage to the eyes.
Inhalation	No applicable information available.
Ingestion	Oral LD50 : > 2,000 mg/kg



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Chronic effects

Repeated dose toxicity

Assessment of repeated dose toxicity: The information available on the product provides no indication of toxicity on target organs after repeated exposure.

Genetic toxicity

Assessment of mutagenicity: The chemical structure does not suggest a specific alert for such an effect. Genetic toxicity in vitro: Directive 84/449/EEC, B.14 Ames-test Salmonella typhimurium:negative

Carcinogenicity

Assessment of carcinogenicity: The chemical structure does not suggest a specific alert for such an effect.

Reproductive toxicity

Assessment of reproduction toxicity: The chemical structure does not suggest a specific alert for such an effect.

Teratogenicity

Assessment of teratogenicity: No data was available concerning toxicity to development.

Other Information

The product has not been tested. The statements on toxicology have been derived from the properties of the individual components.

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity

Aquatic toxicity

Assessment of aquatic toxicity: The product has not been tested. The statement has been derived from the properties of the individual components.

Toxicity to fish

LC50 > 10 - 100 mg/l (DIN EN ISO 7346-2)

Aquatic invertebrates

EC50 > 10 - 100 mg/l (OECD Guideline 202, part 1)

Aquatic plants

EC50 > 1 - 10 mg/l (OECD Guideline 201)

Chronic toxicity to fish

No observed effect concentration > 0.1 - 1 mg/l
The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Toxicity to microorganisms

DIN 38412 Part 8 EC0: > 100 mg/l

Persistence and degradation

Readily biodegradable (according to OECD criteria). Easily eliminated from water.

Bioaccumulation

No data available.

Mobility in soil

Not applicable.

Other adverse effects

Not applicable.



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SECTION 13 - DISPOSAL CONSIDERATIONS

Waste Disposal	Must be disposed of or incinerated in accordance with local regulations.
Container disposal	Since emptied container retains product residue, all labeled hazard precautions must be observed.

SECTION 14 - TRANSPORT INFORMATION

United Nations number Identification	Not regulated.
Transportation of Dangerous Goods Regulations	Not regulated.
Packing group Environmental hazards Bulk transport	Not applicable.

SECTION 15 - OTHER REGULATORY INFORMATION

Federal, international and other regulations	<u>CANADA</u> Chemical DSL, CA released / listed Cosmetic DSL, CA released / listed According to Controlled Products Regulations (CPR) (SOR/88-66) WHMIS classification: D2B: Materials Causing Other Toxic Effects - Toxic material
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SECTION 16 - OTHER INFORMATION

Last Updated	31-10-2016
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IMPORTANT : The information presented herein is believed to be accurate and is obtained from current and reliable sources. Final determination of the suitability of the material is the sole responsibility of the user, this document is offered only as a guide. Users assume all risk of use, storage and handling of the product. Coop Coco & Calendula shall not be held responsible for any damages to property or for any adverse physical effects (including injury or bodily harm) caused by insufficient knowledge or the improper use of a product. Coop Coco & Calendula strongly recommends small lab scale testing for evaluation purposes prior to full commercial manufacturing.