

Safety data sheet as per Commission Regulation (EU) 2015/830

Product: Cocoamidopropyl Betain



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

1.1 Product identifier

Trade name	Cocoamidopropyl Betain / CAPB
Chemical Name	{[3-(Dodecanoylamino)propyl](dimethyl)ammonio}acetate
CAS Number	61789-40-0
EC Number	263-058-8

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses	Surfactant
Uses identified against	Not for use other than those specified

1.3 Details of the supplier of the safety data sheet:

Manufacturer	Prasol Chemicals Pvt. Ltd., Prasol House, Plot No.A-17/2/3, T.T.C. Indl. Area, Khairne M.I.D.C., Navi Mumbai - 400 710. Maharashtra, India.
Telephone	+91-22-27782555
Telefax	+91-22-27782430
e-mail address	sales@prasolchem.com; inquiry@prasolchem.com

1.4 Emergency telephone number

Telephone	+91-22- 27782555
Language	English

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

Skin Irritation/ Corrosion	Category 2	H315	Causes skin irritation
Eye Damage/ Irritation	Category 2	H319	Causes serious eye irritation
Aquatic acute toxicity	Category 1	H400	Very toxic to aquatic life

Information concerning particular hazards for human and environment: No further information

2.2 Label elements

Labeling according to Regulation (EC) No 1272/2008 (CLP)

Hazard pictograms



GHS05

GHS07

GHS09

Signal word

Danger

Hazard statements

H315 Causes skin irritation
H319 Causes serious eye irritation
H400 Very toxic to aquatic life

Precautionary statements

General	P103	Read label before use.
Prevention	P264	Wash hands thoroughly after handling.
	P273	Avoid release to the environment.
	P280	Use protective gloves and eye protection.
Response	P302+P352	IF ON SKIN: Wash with plenty of water.
	P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
	P321	Specific treatment- wash with plenty of water and mild soap.
	P332+P312	If skin irritation occurs: Get medical advice.
	P337+P313	If eye irritation persists: Get medical advice.
	P362+P364	Take off contaminated clothing and wash it before reuse.
	P391	Collect spillage.

Storage

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Disposal

P501

Dispose of contents/container to in accordance with national regulations.

2.3 Other hazards

Not a PBT, vPVB substance according to the criteria of REACH regulation

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SECTION 3: Composition/information on ingredients

3.2 Mixtures

Ingredient	CAS No.	EC No.	Concentration (%)
Cocoamidopropyl Betain	61789-40-0	263-058-8	35 max
Water	7732-18-5	231-791-2	65 min

Additional information:

Molecular Formula	C ₁₉ H ₃₈ N ₂ O ₃
Molecular Weight	342.52

SECTION 4: First aid measures

4.1 Description of first aid measures

General information	Take off all contaminated clothing immediately.
After inhalation	If inhaled during process, remove to fresh air. If breathing is difficult, give oxygen. If unconscious, evaluate the need for artificial respiration. Get immediate medical attention
After skin contact	Wash off with plenty of water immediately, seek medical advice if necessary.
After eye contact	Rinse with plenty of water immediately and seek medical advice.
After swallowing	Do not induce vomiting and seek medical advice immediately.

4.2 Most important symptoms and effects, both acute and delayed

Causes eye and skin irritation

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media CO₂, dry powder, foam or water spray

Unsuitable extinguishing media water jet

5.2 Special hazards arising from the substance or mixture

Heating or fire can release toxic gas (Nitrogen oxides (NO_x), Carbon monoxide)

5.3 Advice for firefighters

Do not expose to high temperature.

Use fine water spray to cool endangered containers.

Move undamaged containers from immediate hazard area.

Do not allow fire water to penetrate into surface or ground water.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Remove persons not involved upwind.

Wear a self-contained breathing apparatus and chemical protective clothing. Solvent-resistant protective clothing recommended.

6.2 Environmental precautions

Plug leak if safely possible.

Do not allow to enter drains, surface waters, basements or pits.

6.3 Methods and material for containment and cleaning up

In case of spills of large quantities: Dam spills and pump to remove. Absorb leftover product with non-flammable liquid-binding material (e.g. earth, sand, vermiculite or ground sand stone) and place in closed containers for disposal.

6.4 Reference to other sections

Section 8 for information on personal protection equipment.

Section 13 for disposal information

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Provide adequate ventilation, and local exhaust as needed. Provide room air exhaust at ground level. Concentrated vapours are heavier than air. Avoid the formation of aerosol. Do not breathe vapours. Use only explosion-protected equipment/instruments.

7.2 Conditions for safe storage, including any incompatibilities

Advice on protection against fire and explosion

Keep away from sources of ignition. No smoking. Take precautionary measures against static discharge. Beware of re-ignition.

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Storage	Keep container tightly closed in a cool, well-ventilated place. Protect from direct sunlight.
Advice on common storage	Observe prohibition against storing together!
Storage class	-
Storage stability	Stable under recommended storage conditions
7.3 Specific end use(s)	As given in Section 1

SECTION 8: Exposure controls/personal protection

8.1 Control parameters	Exposure limits have not been determined.
8.2 Exposure controls	
Appropriate engineering controls	Provide good ventilation and/or an exhaust system in the work area.
Personal protective equipment	
Eye/ face protection	closed goggles, face shield
Skin protection	
Hand protection	Butyl-rubber 0.5 mm > 480 min
Body protection	Use solvent-resistant protective clothing. Flame-retardant antistatic protective clothing; safety shoes
Respiratory protection	Respiratory equipment with suitable filter or a self-contained respiratory apparatus.
Thermal hazards	Do not expose to extreme heat
Industrial hygiene	Do not inhale vapours / aerosols. Avoid contact with skin and eyes. Remove immediately all contaminated clothing. Use disposable clothing if appropriate. Smoking, eating and drinking should be prohibited in the application area.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties	
Appearance	Colourless to pale yellow liquid
Odour	amine like
Odour threshold	no data available
pH	5.5-7.0 (1% solution)
Melting point	not determined
Boiling range	>100°C
Flash point	>150°C (Closed cup)
Evaporation rate	no data available
Flammability (solid, gas)	non-flammable
Flammability limits	not applicable
Vapour pressure	not determined
Vapour density	not determined
Relative density	1.04at 25°C
Solubility in water	very soluble
Partition coefficient	not determined
Ignition temperature	not determined
Decomposition temperature	no data available
Viscosity at 20 °C	not determined
Explosive properties	no explosive properties (structural reasons)
Oxidizing properties	no oxidizing properties (structural reasons)
9.2 Other information	no further data

SECTION 10: Stability and reactivity

10.1 Reactivity	No dangerous reactions if stored and handled as indicated. Forms no flammable gases in contact with water. Non-oxidizing.
10.2 Chemical stability	Under storage at normal ambient temperatures (-40°C to +40°C), the product is stable.
10.3 Possibility of hazardous reactions	No known hazardous reactions if used as directed
10.4 Conditions to avoid	Heat, flames and sparks.
10.5 Incompatible materials	Strong acids and oxidizing agents
10.6 Hazardous decomposition products	Thermal decomposition products- Nitrogen oxides (NOx), Carbon monoxide



SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

LD50	oral	rat	>2000mg/kg bw
LC50	inhalation	rat	no data available
LD50	dermal	rabbit	no data available

Skin irritation

irritating Category 2

Serious eye irritation

Severe eye irritation Category 2

Respiratory or skin sensitization

No sensitizing effects known

Germ cell mutagenicity

non mutagenic (Ames test)

Carcinogenicity

no indications for a carcinogenic potential

Reproductive toxicity

no adverse effect on reproduction

STOT-single exposure

irritating to eye and skin

STOT-repeated exposure

no data available

Aspiration hazard

no data available

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

Toxicity to fish	LC50	96h	1-10mg/L	<i>Oncorhynchus mykiss</i>
Toxicity to aquatic invertebrates	NOEC	48h	0.32mg/L	<i>Daphnia magna</i>
Toxicity to aquatic algae and cyanobacteria	MOEC	72h	3.55mg/L	<i>Desmodesmus subspicatus</i>
Toxicity to microorganisms	EC50	-	222.5mg	activated sludge

12.2 Persistence and degradability

Biodegradation

readily biodegradable (86-100% in 28days)

12.3 Bioaccumulative potential

Bioconcentration factor 3-71; very low potential for bioaccumulation

12.4 Mobility in soil

log Pow 1.28-3.63, amphoteric

12.5 Results of PBT and vPvB assessment

Not a PBT, vPvB substance according to the REACH regulation

12.6 Other adverse effects

No further information available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Observe all federal, state, and local environmental regulations.
 Contact a licensed professional waste disposal service to dispose of this material.
 Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.
 Do not dispose in sewage.

SECTION 14: Transport information

	ADR/RID	IMDG	ICAO/IATA
14.1 UN Number	-	-	-
14.2 UN proper shipping name		not hazardous for transport	
14.3 Transport hazard class	-	-	-
14.4 Packaging group	-	-	-
14.5 Environmental hazards	marine pollutant		
14.6 Special precautions for the user	none		
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	See regulatory information for transport approval		

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Major accident hazard Seveso III no

International Chemical Inventory Status

USA (TSCA)	listed
Canada (DSL)	listed
Australia (AICS)	listed
Japan (MITI)	listed
Korea (KECL)	listed

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Philippines (PICCS)	listed
China	listed
New Zealand	listed
Taiwan	listed
15.2 Chemical safety assessment	A Chemical Safety Assessment will be carried out at the time of REACH registration

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Further information:

Sections in which changes have been made since the last version are marked with a diamond ◆ in the left hand margin.

Abbreviations and acronyms in English language:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
AICS	Australian Inventory of Chemical Substances
CAS	Chemical Abstracts Service (division of the American Chemical Society)
CLP	Classification for Labeling and Packaging
DSL	Domestic Substances List
EC	European Commission
EC50	Half maximal effective concentration
EINECS	European Inventory of Existing Commercial Chemical Substances
GHS	Globally Harmonized System of Classification and Labeling of Chemicals
IATA	International Air Transport Association
IBC	International Bulk Chemical
ICAO	International Civil Aviation Organization
IMDG	International Maritime Code for Dangerous Goods
KECL	Korea Existing Chemicals List
KOC	Soil adsorption coefficient
KOW	Partition Coefficient octanol-water
LC50	Lethal concentration, 50 percent
LD50	Lethal dose, 50 percent
MARPOL	International Convention for the Prevention of Pollution from Ships
MITI	Ministry of International Trade and Industry
NOAEC	No Observed Adverse Effect Concentration
NOAEL	No Observed Adverse Effect Level
PBT	Persistent, bioaccumulative and toxic substances
PICCS	Philippine Inventory of Chemicals and Chemical Substances
RID	Regulations Concerning the International Transport of Dangerous Goods by Rail
STOT	Specific target organ toxicity
TSCA	Toxic Substances Control Act
UN	United Nations
vPVB	(very) Persistent, (very) Bioaccumulative

Sources

Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

ECHA <https://echa.europa.eu/substance-information/-/substanceinfo/100.057.308>