

Safety data sheet as per Commission Regulation (EU) 2020/878

Product: Cocoamine



SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Trade name Cocoamine/ Cocoalkyl amine

Chemical Name Amines, C12-C18-alkyl

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 Limited
Prasol House, Plot No.A-17/2/3,
T.T.C. Industrial Area, Khairne M.I.D.C.,
Navi Mumbai - 400 710.
Maharashtra, India.
Telephone +91-22-27782555/ 61952500
Telefax +91-22-61952577
e-mail address sales@prasolchem.com; inquiry@prasolchem.com

1.4 Emergency telephone number

Telephone +91-22- 27782555/ 61952500
Language English

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

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

Acute Toxicity	Category 4	H302	Harmful if swallowed
Aspiration Hazard	Category 1	H304	May be fatal if swallowed and enters airways
Skin Corrosion	Category 1B	H314	Causes severe skin burns and eye damage
Specific Target Organ Toxicity, Single Exposure	Category 3	H335	May cause respiratory irritation
Specific Target Organ Toxicity, Repeated Exposure	Category 2	H373	May cause damage to organs through prolonged or repeated exposure (gastro-intestinal tract, liver, immune system)
Aquatic chronic toxicity	Category 1	H410	Very toxic to aquatic life with long lasting effects

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



GHS08



GHS09

Signal word

Danger

Hazard statements

H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H314	Causes severe skin burns and eye damage
H335	May cause respiratory irritation
H373	May cause damage to organs through prolonged or repeated exposure (gastro-intestinal tract, liver, immune system)
H410	Very toxic to aquatic life with long lasting effects

Precautionary statements

General

P103 Read label before use.

Prevention

P260 Do not breathe vapour, mist or spray.
P264 Wash hands thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.

Response

P280 Use protective gloves and eye protection.
P301+P316 IF SWALLOWED: Get emergency medical help immediately.
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
P302+P361+P354 IF ON SKIN: Take off immediately all contaminated clothing. Immediately rinse with water for several minutes.

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	P304 +P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing
	P305+P354+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
	P316	Get emergency medical help immediately.
	P319	Get medical help if you feel unwell.
	P321	Specific treatment- wash with plenty of water and mild soap.
	P391	Collect spillage.
Storage	P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
	P405	Store locked up.
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 Annex XIII to REACH regulation

Not having endocrine disruptive properties as per criteria of Delegated Regulations (EC) 2017/2100 or (EC) 2018/605

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Name	Cocoamine/ cocoalkyl amine
CAS Number	61788-46-3
EC Number	262-977-1
Molecular Formula	R-NH ₂
Molecular Weight	~200g/mol

Ingredient	Classification	Concentration (%)
Cocoamine	Ac. Tox. 4, Asp. Tox. 1, Skin Corr. 1B, STOT SE 3, STOT RE 2, Aq. Chr. 1 H302, H304, H314, H335, H373, H410	98 - 100

3.2 Mixtures not applicable

The substance is classified as an aspiration hazard. None of the ingredients present are classified as respiratory sensitiser 1A, skin sensitizer and endocrine disruptors.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General information

Take off all contaminated clothing immediately.

After inhalation

If inhaled, 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, skin, and respiratory tract irritation
Central nervous system depression, Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Blood disorders, Dermatitis, Blurred vision.

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.

Danger of bursting and explosion.

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.

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SECTION 6: ACCIDENTAL RELEASE MEASURES

- | | |
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| 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 | Keep away from sources of ignition. - No smoking. Take precautionary measures against static discharge. Beware of re-ignition. |
| Advice on protection against fire and explosion | Keep container dry. Keep container tightly closed in a cool, well-ventilated place. Protect from direct sunlight. |
| Storage | |
| Packaging material | Metal drums |
| Incompatibility | None known |
| 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 | 8h TWA 1 mg/m ³ |
| 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 | not determined (pKa 10.6) |
| Melting point | 12-17°C |
| Boiling range | 130-227°C |
| Flash point | >100°C (Closed cup) |
| Evaporation rate | no data available |
| Flammability (solid, gas) | non-flammable |
| Flammability limits | not applicable |
| Vapour pressure | 0.00805 hPa at 20°C |

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Vapour density	not determined
Relative density	0.81 at 25°C
Solubility in water	78mg/l at 20°C
Partition coefficient	not determined
Ignition temperature	255°C
Decomposition temperature	no data available
Viscosity at 20 °C	5.42 mPa.s
Particle characteristics	Not applicable (substance is a liquid)
9.2 Other information	no further information
Explosive properties	no explosive properties (structural reasons)
Oxidizing properties	no oxidizing properties (structural reasons)

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity	No dangerous reactions if stored and handled as indicated. Not corrosive to steel.
10.2 Chemical stability	Forms no flammable gases in contact with water. 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. avoid static electricity discharge
10.5 Incompatible materials	Strong acids and oxidizing agents, Strong bases
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	1300mg/kg bw
LC50 inhalation rat	> 0.099 mg/L for 1h
LD50 dermal rabbit	> 2000 mg/kg
Skin irritation	Corrosive Category 1B, H314 (rat)
Serious eye irritation	Severe eye irritation 24 h (rabbit) H314
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 (rat)
STOT-single exposure	Category 3, H335
STOT-repeated exposure	Category 2, H373 (affects liver, immune system)
Aspiration hazard	Asp. Tox. 1, H304
11.2 Information on other hazards	
Endocrine disrupting properties	No endocrine disrupting properties
Other information	No further information

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity	
Aquatic toxicity	
Toxicity to fish	LC50 96h 0.11mg/L <i>Pimephales promelas</i>
Toxicity to aquatic invertebrates	EC50 48h 0.011mg/L <i>Daphnia magna</i>
Toxicity to aquatic algae and cyanobacteria	ERC50 72h 0.46mg/L <i>Desmodesmus subspicatus</i>
Toxicity to microorganisms	EC50 - 222.5mg activated sludge
12.2 Persistence and degradability	
Biodegradation	Not readily biodegradable (56% in 28days) Aq. Chr. 1, H410
12.3 Bioaccumulative potential	estimated Bioconcentration factor >100; low potential for bioaccumulation
12.4 Mobility in soil	log Pow ~7
12.5 Results of PBT and vPvB assessment	Not a PBT, vPvB substance according to the REACH regulation
12.6 Endocrine disrupting properties	No endocrine disrupting properties
12.6 Other adverse effects	No further information available

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SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods	Observe all national, state and local environmental regulations.
Product disposal	Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.
Packaging disposal	Clean container with water. Recover waste water for processing later. Destroy packaging by incineration at an approved waste disposal site.
Sewage disposal	Do not dispose in sewage.

SECTION 14: TRANSPORT INFORMATION

	ADR/RID	IMDG	ICAO/IATA
14.1 UN Number	2735	2735	2735
14.2 UN proper shipping name		Amines, liquid, corrosive, n.o.s	
14.3 Transport hazard class	8	8	8
14.4 Packaging group	III	III	III
14.5 Environmental hazards	marine pollutant		
14.6 Special precautions for the user	corrosive and irritant; Danger		
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 E1 (Hazardous to the aquatic environment)
International Chemical Inventory Status	
USA (TSCA)	Listed (Tracking No 320499)
Canada (DSL)	listed
Australia (AICS)	listed
Japan (MITI)	Listed (Existing Chemical Substances)
Korea (KECL)	Listed (KE No 06141)
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

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

Abbreviations and acronyms:

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
LC50	Lethal concentration, 50 percent
LD50	Lethal dose, 50 percent
MARPOL	International Convention for the Prevention of Pollution from Ships

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MITI	Ministry of International Trade and Industry
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

Key literature references and sources for data

Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

ECHA <https://echa.europa.eu/information-on-chemicals/cl-inventory-database/-/discli/details/97859>

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