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Response

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

Storage

- None

Disposal

- P501 Dispose of contents/ container to an approved waste disposal plant.

**2.3 Other hazards which do not result in classification**

No additional hazards are known except those derived from the labelling.

**SECTION 3: Composition/information on ingredients**

**3. Mixture**

**Chemical characterization**

Coco Amido Propyl Betaine 30 / 45

**INCI name**

Cocamidopropyl Betaine

**Hazardous ingredients**

Amides, coco, N-(3-dimethylamino)propyl), alkylation products with chloroacetic acid, sodium salts

Concentration: 30 - 40 %

CAS number: 61789-40-0

EC number: 263-058-8

GHS classification EC

Skin irritation	Category 2	H315
Serious eye damage	Category 1	H318
Chronic aquatic toxicity	Category 3	H412

\*The text of the H-phrases is shown in section 16.

**SECTION 4: First aid measures**

**4.1 Description of first aid measures**

**General advice**

- Remove/Take off immediately all contaminated clothing.

**In case of inhalation**

- If inhaled, remove to fresh air.
- Get medical advice/ attention.

**In case of skin contact**

- In case of contact, immediately flush skin with soap and plenty of water.

**In case of eye contact**

- In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**In case of ingestion**

- Get medical attention immediately.

**4.2 Most important symptoms and effects, both acute and delayed**

- No symptoms known currently.
- No hazards known at this time.

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### 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

- Water spray jet
- Foam
- Carbon dioxide (CO<sub>2</sub>)
- Dry powder

### 5.2 Special hazards arising from the substance or mixture

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

### 5.3 Advice for firefighters

#### Special protective equipment for firefighters

- Self-contained breathing apparatus

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

- Wear suitable protective equipment.

### 6.2 Environmental precautions

- Do not allow to enter drains or waterways

### 6.3 Methods and materials for containment and cleaning up

- Pick up with absorbent material (eg sand, sawdust). Rinse away rest with water

### 6.4 Reference to other sections

#### Additional information

- Information regarding Safe Handling, see section 7.
- For Personal Protection see section 8.
- Information regarding Waste Disposal, see section 13.

## SECTION 7: Handling and Storage

### 7.1 Precautions for safe handling

#### Advice on safe handling

- Handle and open container with care.

#### Hygiene measures

- Wash hands before breaks and at the end of workday.
- Use protective skin cream before handling the product.
- Take off immediately all contaminated clothing and wash it before reuse.

#### Advice on protection against fire and explosion

- Observe the general rules of industrial fire protection

### 7.2 Conditions for safe storage, including any incompatibilities

#### Further information on storage conditions

- Protect from extreme heat and cold
- Sensitive to frost; In case of the product becoming opaque, thickening or being frozen due to the effects of cold, allow to thaw slowly at room temperature. Stir briefly before use.

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**7.3 Specific end use(s)**

- No further recommendations

**SECTION 8: Exposure Controls/ Personal Protection**

**8.1 Control parameters**

**Exposure limit values**

Exposure limit values are not available.

**DNEL/DMEL values**

DNEL/DMEL values are not available.

**PNEC values**

PNEC values are not available.

**8.2 Exposure controls**

**General protective measures**

Avoid contact with skin and eyes.

**Hand Protection**

Long-term exposure

Impervious butyl rubber gloves

Minimum breakthrough time / gloves: 480 min

Minimum thickness / gloves 0,7 mm

For short-term exposure (splash protection):

Nitrile rubber gloves.

Minimum breakthrough time / gloves: 30 min

Minimum thickness / gloves 0,4 mm.

\*\* These types of protective gloves are offered by various manufacturers. Please note the manufacturers' detailed statements, especially about the minimum thickness and the minimum breakthrough time. Consider also the particular working conditions under which the gloves are being used.

**Eye Protection**

Depending on the risk, wear sufficient eye protection (safety glasses with side protection or goggles, and if necessary, face shield.)

**SECTION 9: Physical and Chemical properties**

**9.1 Information on basic physical and chemical properties**

Physical state:	Liquid
Form:	Liquid
Particle size:	Not applicable
Colour:	Light yellow
Odour:	Characteristic
Odour threshold:	Not tested.
pH value:	4 - 5 (20 °C, 10 g/l)
Pour point:	-3 °C Method: ISO 3016
Solidification point:	-5,4 °C
Boiling point:	approx. 100 °C Based on water-content.
Flash point:	> 100 °C Method: DIN 51758 (closed cup)
Evaporation rate:	Not tested.

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Lower explosion limit:	Not tested.
Upper explosive limit:	Not tested.
Combustion number:	Not applicable
Minimum ignition energy:	Not tested.
Vapour pressure:	approx. 3 kPa (25 °C) Corresp. to vapour pressure of water
Vapour density relative to air:	Not tested.
Solubility in water:	(20 °C) soluble
Soluble in ...:	Fat Not tested.
Octanol/water partition coefficient (log Pow):	Not applicable
Ignition temperature:	Not tested.
Self-ignition temperature:	Not applicable
Thermal decomposition:	No decomposition up to 260 °C.
Viscosity (dynamic):	200 mPa.s (23 °C) Method: DIN 53015
Viscosity (kinematic):	Not tested.
Explosive properties:	Explosive according to EU supply regulations: no data available
Oxidizing properties:	Not applicable

**9.2 Other information**

Density:	approx. 1,05 g/cm <sup>3</sup> (20 °C) Method: DIN 51757
Bulk density:	Not applicable

**SECTION 10: Stability and Reactivity****10.1 Reactivity**

- See section 10.3. "Possibility of hazardous reactions"

**10.2 Chemical stability**

- Stable under normal storage conditions.

**10.3 Possibility of hazardous reactions**

- No dangerous reaction known under conditions of normal use.

**10.4 Conditions to avoid**

- None known.

**10.5 Incompatible materials**

- Not known.

**10.6 Hazardous decomposition products**

- When handled and stored appropriately, no dangerous decomposition products are known

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**SECTION 11: Toxicological Information**

**11. Information on toxicological effects**

**Information related to the product itself:**

Acute oral toxicity:	LD50 > 2.000 mg/kg (Rat)
Acute dermal toxicity:	Not tested.
Acute inhalation toxicity:	Not tested.
Irritant effect on skin:	Irritating Information refers to the main component.
Irritant effect on eyes:	Risk of serious damage to eyes. Information refers to the main component.
Sensitization:	Non-sensitizing (Guinea pig) Method: OECD Test Guideline 406 Source: Analogy
Repeated dose toxicity:	Not tested.
Assessment of mutagenicity:	Not mutagenic in Ames Test Source: Analogy
Assessment of carcinogenicity:	No information available.
Assessment of toxicity to reproduction):	No information available.
Assessment of teratogenicity:	No information available.
Specific target organ toxicity (STOT) - single exposure:	Not tested.
Specific target organ toxicity (STOT) - repeated exposure:	Not tested.
Aspiration hazard:	No data available

**SECTION 12: Ecological Information**

**12.1 Toxicity**

**Information related to the product itself:**

<b>Fish toxicity:</b>	LC50 > 1 - 10 mg/l (96 h, Danio rerio (zebra fish)) Method: OECD Test Guideline 203 Source: Analogy
<b>Fish toxicity (chronic):</b>	NOEC 0,5 mg/l (28 d, Oncorhynchus mykiss (rainbow trout)) Method: OECD Test Guideline 204 Source: literature
<b>Daphnia toxicity:</b>	Not tested.
<b>Daphnia toxicity (chronic):</b>	NOEC > 0,1 - 1 mg/l (21 d, Daphnia magna (Water flea)) Method: OECD Test Guideline 202 Source: literature
<b>Algae toxicity:</b>	EC50 10,5 mg/l (72 h, Desmodesmus subspicatus (Scenedesmus subspicatus)) Method: OECD Test Guideline 201  NOEC 1 mg/l (72 h, Desmodesmus subspicatus (Scenedesmus subspicatus)) Method: OECD Test Guideline 201
<b>Bacteria toxicity:</b>	EC50 > 1.000 mg/l (Pseudomonas putida) Method: DIN 38412 T.8 Persistence and degradability

**Wilmar Trading Pte Ltd****12.2 Persistence and Degradability****Information related to the product itself:**

**Biodegradability:** 92% (28 d)  
Readily biodegradable  
Method: OECD Test Guideline 301E  
Readily biodegradable, according to appropriate OECD test.

80% (28 d)  
Readily biodegradable  
Method: OECD Test Guideline 301B  
Source: Analogy  
> 80 %  
Method: OECD Test Guideline 302B

**Dissolved Organic Carbon (DOC):** 196 mg/g

**Chemical Oxygen Demand (COD):** 474 mg/g

**Information related to the component:**

Amides, coco, N-(3-dimethylamino)propyl), alkylation products with chloroacetic acid, sodium salts

**Biodegradability:** Readily biodegradable

**12.3 Bioaccumulative potential****Information related to the product itself:**

**Bioaccumulation:** Not tested.

**12.4 Mobility in soil****Information related to the product itself:**

**Transport and distribution** Not tested.

**Between environmental compartments:****12.5 Results of PBT and vPvB assessment****Information related to the product itself:**

No data available

**12.6 Other adverse effects****Information related to the product itself:**

Additional ecotoxicological remarks:

No data available

**SECTION 13: Disposal Considerations****13. Waste treatment methods****Product**

- In accordance with local authority regulations, take to special waste incineration plant

**Uncleaned packaging**

- Packaging that cannot be cleaned should be disposed of as product waste

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**SECTION 14: Transport Information**

**Section 14.1 to 14.5**

ADR	not restricted
ADN	not restricted
RID	not restricted
IATA	not restricted
IMDG	not restricted

**14.6 Special precautions for user**

See sections 6 to 8 of this Safety Data Sheet.

**14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code (International Bulk Chemicals Code)**

No transport as bulk according IBC - Code.

**SECTION 15: Regulatory Information**

**15. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**Local Regulations:** No data available.

**SECTION 16: Other Information**

Observe national and local legal requirements

**List of the text of the hazard statements mentioned section 3 (H-phrases) :**

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

**Legend**

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
AOX	Adsorbable organic bound halogens
CAS	Chemical Abstracts Service
DMEL	Derived Minimal Effect Level (genotoxic substances)
DNEL	Derived No Effect Level
EC50	Half maximal effective concentration
GHS	Globally Harmonized System
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Lethal Concentration 50%
LD50	Lethal Dose 50%
MARPOL	International Convention for the Prevention of Pollution From Ships
NOAEC	No Observed Adverse Effect Concentration
NOAEL	No Observed Adverse Effect Level
NOEC	Non Observed Effect Concentration
OEL	Occupational Exposure Limit
PBT	Persistent, Bioaccumulative, Toxic
PEC	Predicted Environmental Concentration
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	International Rule for Transport of Dangerous Substances by Railway
SVHC	Substances of Very High Concern
vPvB	very Persistent and very Bioaccumulative

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. Such information is only given as a guidance to help the user handle, use, process, store, transport, dispose and release the product in satisfactory safety conditions and is not to be considered as a warranty or quality



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specification. It should be used in conjunction with technical sheets but do not replace them. Thus, the information only relates to the designated specific product and may not be applicable if such product is used in combination with other materials or in any other manufacturing process, unless otherwise specifically indicated. It does not release the user from ensuring he is in conformity with all regulations linked to its activity.