

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

#### 1.1. Product identifier

Product form	: Substance
Name	: BETAINE AAB
Chemical name	: 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts
EC-No.	: 931-296-8
REACH registration No	: 01-2119488533-30

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

##### 1.2.1. Relevant identified uses

Intended for general public

Main use category : Industrial use

Title	Use descriptors
Formulation & (re) conditioning of substances and mixtures	SU3, SU5, SU10, SU13, SU19, SU20, SU23, PROC1, PROC2, PROC3, PROC4, PROC5, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC14, PROC15, PROC19
Professional use	SU22, PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC15, PROC19, PROC21, PROC24, PROC25
Consumer use	SU21, PC1, PC8, PC9b, PC31, PC35, PC39, AC4, AC8, AC13

Full text of use descriptors: see section 16

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

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7011 Ghlin - Belgium  
T +32 65395610 - F +32 65395612  
[sales@mosselman.be](mailto:sales@mosselman.be) - [www.mosselman.be](http://www.mosselman.be)

#### 1.4. Emergency telephone number

Country	Official advisory body	Address	Emergency number
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals-24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)
Israel	Israel Poison Information Center Rambam Health Care Campus	6 Ha'Aliya Street 31096 Haifa	+972 4 854 1900
Malta	Medicines & Poisons Info Office	Mater Dei Hospital MSD Msida	+356 2545 6504
United Kingdom	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA Belfast	0344 892 0111
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH Birmingham	0344 892 0111
United Kingdom	National Poisons Information Service (Cardiff Centre) Gwenwyn Ward, Llandough Hospital	Penarth CF64 2XX Cardiff	0344 892 0111
United Kingdom	National Poisons Information Service Edinburgh Royal Infirmary of Edinburgh	Little France Crescent EH16 4SA Edinburgh	0344 892 0111
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	0870 243 2241
United Kingdom	National Poisons Information Service (Newcastle Centre) Regional Drugs and Therapeutics Centre, Wolfson Unit	Claremont Place Newcastle-upon-Tyne NE1 4LP Newcastle	0344 892 0111

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Eye Dam. 1 H318

Aquatic Chronic 3 H412

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Full text of H statements : see section 16

### Adverse physicochemical, human health and environmental effects

No additional information available

### 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



GHS05

CLP Signal word

: Danger

Hazard statements (CLP)

: H318 - Causes serious eye damage.  
H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements (CLP)

: P273 - Avoid release to the environment.  
P280 - Wear protective gloves, protective clothing, eye protection, face protection.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 - Immediately call a doctor, a POISON CENTER.  
P501 - Dispose of contents/container to Collection point

### 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Chemical name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts	(EC-No.) 931-296-8 (REACH-no) 01-2119488533-30	ca 36	Eye Dam. 1, H318 Aquatic Chronic 3, H412

Full text of R- and H-statements: see section 16

### 3.2. Mixtures

Not applicable

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general	: Remove immediately contaminated clothing.
First-aid measures after inhalation	: Fresh air, rest. If necessary seek medical advice.
First-aid measures after skin contact	: Wash skin with plenty of water and soap.
First-aid measures after eye contact	: Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Obtain emergency medical attention.
First-aid measures after ingestion	: Rinse mouth. Give water to drink if victim completely conscious/alert. Immediately consult a doctor/medical service.

### 4.2. Most important symptoms and effects, both acute and delayed

No additional information available

### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	: carbon dioxide (CO <sub>2</sub> ), dry chemical powder, foam.
Unsuitable extinguishing media	: Do not use a solid water stream as it may scatter and spread fire.

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

Fire hazard	: In case of fire it can release. carbon oxides (CO and CO <sub>2</sub> ).
Reactivity	: Reacts with : oxidising compounds and reducing agents.

### 5.3. Advice for firefighters

Protection during firefighting	: Use a self-contained breathing apparatus and also a protective suit.
Other information	: Avoid (reject) fire-fighting water to enter environment. Product may not flow into sewer or superficial water.

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### SECTION 6: Accidental release measures

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

General measures : No naked flames, sparks, and do not smoke.

##### 6.1.1. For non-emergency personnel

Protective equipment : Wear suitable protective clothing.

Emergency procedures : Mark out the contaminated area with signs and prevent access to unauthorized personnel. Spill area may be slippery.

##### 6.1.2. For emergency responders

No additional information available

#### 6.2. Environmental precautions

Use appropriate container to avoid environmental contamination.

#### 6.3. Methods and material for containment and cleaning up

For containment : Prevent spillage from spreading by using sand or earth. Dike and contain spill.

Methods for cleaning up : Take up liquid spill into absorbent material, e.g.: sand, earth, vermiculite.

#### 6.4. Reference to other sections

For further information refer to section 8 : Exposure-controls/personal protection". Once this stage is reached, close the container and dispose of in accordance with the waste regulations (see Section 13).

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Smoking, eating and drinking should be prohibited in areas of storage and use. Handle in accordance with good industrial hygiene and safety practice.

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

Storage conditions : Store tightly closed in a dry and cool place. Exclude sources of heat, sparks and open flame.

Storage temperature : 0 - 30 °C

Packaging materials : Stainless steel. Aluminium. Plastic materials.

#### 7.3. Specific end use(s)

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

BETAINE AAB	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	ca 12,5 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	ca 44 mg/m³/day
DNEL/DMEL (General population)	
Long-term - systemic effects, dermal	ca 7,5 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	ca 0,01 mg/l
PNEC aqua (marine water)	ca 0,01 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	ca 1 mg/kg dwt
PNEC sediment (marine water)	ca 0,1 mg/kg dwt
PNEC (Soil)	
PNEC soil	ca 0,8 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	ca 3000 mg/l

#### 8.2. Exposure controls

Appropriate engineering controls:

Provide appropriate exhaust ventilation at places of dust forming.

Hand protection:

Wear suitable gloves

Eye protection:

Face-shield

Skin and body protection:

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Wear suitable protective clothing

### Respiratory protection:

Breathing apparatus needed only when vapour or mist is formed

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: No data available
Odour	: characteristic.
Odour threshold	: No data available
pH	: ca 5
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: > 100 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: ca 208 °C
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: ca 1,05 kg/l (20°C)
Solubility	: Water: Good.
Log Pow	: No data available
Log Kow	: ca 4,2137 (calculated value)
Viscosity, kinematic	: No data available
Viscosity, dynamic	: ca 50 mPa.s (BF RVF 1/20 @ 20°C)
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reacts with : oxidising compounds and reducing agents.

### 10.2. Chemical stability

Stable under normal conditions of use.

### 10.3. Possibility of hazardous reactions

Violent exothermic reaction on exposure to (strong) acids.

### 10.4. Conditions to avoid

No naked flames, sparks, and do not smoke.

### 10.5. Incompatible materials

strong acids, strong oxidants. Reducing agent.

### 10.6. Hazardous decomposition products

On burning: release of carbon monoxide - carbon dioxide.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

BETAINE AAB	
LD50 oral rat	ca 2335 mg/kg
LD50 dermal rat	> 2000 mg/kg (OECD 402)
Skin corrosion/irritation	: Not classified (Lack of data)
	pH: ca 5

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Serious eye damage/irritation	: Causes serious eye damage. (Lack of data) pH: ca 5
Respiratory or skin sensitisation	: Not classified (Lack of data)
Germ cell mutagenicity	: Not classified (Lack of data)
Carcinogenicity	: Not classified (Lack of data)
Reproductive toxicity	: Not classified (Lack of data)
STOT-single exposure	: Not classified (Lack of data)
STOT-repeated exposure	: Not classified (Lack of data)
Aspiration hazard	: Not classified (Lack of data)

### SECTION 12: Ecological information

#### 12.1. Toxicity

BETAINE AAB	
LC50 fish 1	ca 1,11 mg/l Pimephales promelas (96h)
EC50 other aquatic organisms 1	ca 1,9 mg/l (48h) (OECD 202)
LC50 fish 2	ca 1,1 mg/l Cyprinodon variegates (96h)
NOEC (chronic)	ca 0,135 mg/l (100d) (OECD 210)

#### 12.2. Persistence and degradability

BETAINE AAB	
Persistence and degradability	Readily biodegradable. (OECD 301B).

#### 12.3. Bioaccumulative potential

BETAINE AAB	
Bioconcentration factor (BCF REACH)	< 71
Log Kow	ca 4,2137 (calculated value)

#### 12.4. Mobility in soil

BETAINE AAB	
Surface tension	ca 30,9 mN/m (20°C)

#### 12.5. Results of PBT and vPvB assessment

No additional information available

#### 12.6. Other adverse effects

No additional information available

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Ecology - waste materials : Collect all waste in suitable and labelled containers and dispose according to local legislation.

### SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

#### 14.1. UN number

Not regulated for transport

#### 14.2. UN proper shipping name

Not applicable

#### 14.3. Transport hazard class(es)

Not applicable

#### 14.4. Packing group

Not applicable

#### 14.5. Environmental hazards

Other information : No supplementary information available.

#### 14.6. Special precautions for user

##### 14.6.1. Overland transport

No additional information available

##### 14.6.2. Transport by sea

No additional information available

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### 14.6.3. Air transport

No additional information available

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

No REACH Annex XVII restrictions

BETAINE AAB is not on the REACH Candidate List

BETAINE AAB is not on the REACH Annex XIV List

#### 15.1.2. National regulations

Water hazard class (WGK)

: 1 - low hazard to waters

Regulatory reference

: Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances). Listed on the United States TSCA (Toxic Substances Control Act) inventory. listed on the Taiwan CSNN (Chemical Substance Nomination&Notification. Listed on NZIoC (New Zealand Inventory of Chemicals). Listed on KECI (Korean Existing Chemicals Inventory). Listed on the Canadian DSL (Domestic Substances List).

### 15.2. Chemical safety assessment

No additional information available

## SECTION 16: Other information

Indication of changes:

Identification of the substance/mixture and of the company/undertaking.

Full text of R-, H- and EUH-statements:

Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
H318	Causes serious eye damage.
H412	Harmful to aquatic life with long lasting effects.

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*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*