

# Safety data sheet

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BASF Safety data sheet  
Date / Revised: 26.03.2018  
Product: **Demelan® AU-39/Bio**

Version: 2.0

(30534753/SDS\_GEN\_VN/EN)

Date of print 27.03.2018

## 1. Substance/preparation and manufacturer/supplier identification

### Demelan® AU-39/Bio

Use: Raw material for the chemical-technical industry

Manufacturer/supplier:

BASF Vietnam Co. Ltd.  
12 Tu do Boulevard, Vietnam-Singapore IP  
Thuan An, Binh Duong, VIETNAM  
Telephone: +84 2743 743-100  
Telefax number: +84 2743 743-200  
E-mail address: dinhnam.nguyen@basf.com

Emergency information:

International emergency number:  
Telephone: +49 180 2273-112

## 2. Hazard identification

Classification of the substance and mixture:

Acute toxicity: Cat. 4 (oral)  
Serious eye damage/eye irritation: Cat. 1  
Skin sensitization: Cat. 1  
Hazardous to the aquatic environment - acute: Cat. 2  
Hazardous to the aquatic environment - chronic: Cat. 3

Label elements and precautionary statement:

Pictogram:



Signal Word:

| Danger

Hazard Statement:

H318	Causes serious eye damage.
H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.
H412	Harmful to aquatic life with long lasting effects.
H401	Toxic to aquatic life.

Precautionary Statements (Prevention):

P280	Wear protective gloves and eye/face protection.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P273	Avoid release to the environment.
P272	Contaminated work clothing should not be allowed out of the workplace.
P270	Do not eat, drink or smoke when using this product.
P264	Wash with plenty of water and soap thoroughly after handling.

Precautionary Statements (Response):

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 POISON CENTER or doctor/physician.
P303 + P352	IF ON SKIN (or hair): Wash with plenty of soap and water.
P330	Rinse mouth.
P362 + P364	Take off contaminated clothing and wash it before reuse.

Precautionary Statements (Disposal):

P501	Dispose of contents/container to hazardous or special waste collection point.
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Other hazards which do not result in classification:

No specific dangers known, if the regulations/notes for storage and handling are considered.

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them at their direct request or at the request of a detergent manufacturer.

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### 3. Composition/information on ingredients

#### Chemical nature

Preparation based on: Dimethylaminepropylamine, reaction products with castor oil, ethoxylated, quaternized with dimethylsulfate, Amines, coco alkyl, ethoxylated

### Hazardous ingredients

Dimethylaminepropylamine, reaction products with castor oil, ethoxylated, quaternized with dimethylsulfate

Content (W/W): > 45 % - < 55 %	Acute Tox.: Cat. 5 (oral)
CAS Number: 784144-40-7	Eye Dam./Irrit.: Cat. 1
	Skin Sens.: Cat. 1B
	Aquatic Acute: Cat. 2

Amines, coco alkyl, ethoxylated

Content (W/W): > 45 % - < 55 %	Acute Tox.: Cat. 4 (oral)
CAS Number: 61791-14-8	Eye Dam./Irrit.: Cat. 1
	Aquatic Acute: Cat. 2
	Aquatic Chronic: Cat. 3

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## 4. First-Aid Measures

General advice:

Remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention. Immediately administer a corticosteroid from a controlled/metered dose inhaler.

On skin contact:

Wash thoroughly with soap and water. Consult a doctor if skin irritation persists.

On contact with eyes:

Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

On ingestion:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

Note to physician:

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.

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

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## 5. Fire-Fighting Measures

Suitable extinguishing media:

water spray, dry powder, foam

Specific hazards:

harmful vapours, carbon oxides, nitrogen oxides, sulfur oxides

Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

Special protective equipment:  
Wear a self-contained breathing apparatus.

Further information:  
The degree of risk is governed by the burning substance and the fire conditions. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Contaminated extinguishing water must be disposed of in accordance with official regulations.

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## 6. Accidental Release Measures

Personal precautions:  
Use personal protective clothing. Information regarding personal protective measures see, section 8. Ensure adequate ventilation. Avoid contact with the skin, eyes and clothing.

Environmental precautions:  
Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

Methods for cleaning up or taking up:  
For large amounts: Dike spillage. Pump off product.  
For residues: Pick up with suitable absorbent material.  
Dispose of absorbed material in accordance with regulations.

Additional information: High risk of slipping due to leakage/spillage of product. Forms slippery surfaces with water.

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## 7. Handling and Storage

### Handling

Ensure thorough ventilation of stores and work areas. Wear suitable protective clothing and eye/face protection. Avoid contact with the skin, eyes and clothing. Keep container tightly sealed.

Protection against fire and explosion:  
Take precautionary measures against static discharges.

### Storage

Suitable materials for containers: High density polyethylene (HDPE), Low density polyethylene (LDPE), Stainless steel 1.4301 (V2), Stainless steel 1.4306 (V2A), Stainless steel 1.4361, Stainless steel 1.4401, Stainless steel 1.4541, Stainless steel 1.4571, Stove-lacquer RDL 50, Stainless steel 1.4439

Further information on storage conditions: Keep container tightly closed and in a cool place. Keep container dry because product takes up the humidity of air.

Storage stability:  
Storage temperature:  $\leq 40$  °C

Product that is frozen and/or tending to sedimentation can be liquified or homogenized by careful application of indirect heat (do not use flames or direct contact with a heat source).

Protect from temperatures above: 40 °C

## 8. Exposure controls and personal protection

### Components with occupational exposure limits

| No occupational exposure limits known.

### Personal protective equipment

#### Respiratory protection:

Respiratory protection in case of vapour/aerosol release. Particle filter with medium efficiency for solid and liquid particles (e.g. EN 143 or 149, Type P2 or FFP2)

#### Hand protection:

Chemical resistant protective gloves

Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374):

nitrile rubber (NBR) - 0.4 mm coating thickness

Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing.

Manufacturer's directions for use should be observed because of great diversity of types.

#### Eye protection:

Tightly fitting safety goggles (cage goggles) (e.g. EN 166) and face shield.

#### 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).

#### General safety and hygiene measures:

Wearing of closed work clothing is required additionally to the stated personal protection equipment. Avoid contact with the skin, eyes and clothing. No eating, drinking, smoking or tobacco use at the place of work. Hands and/or face should be washed before breaks and at the end of the shift. Store work clothing separately. Handle in accordance with good industrial hygiene and safety practice.

## 9. Physical and Chemical Properties

Form:	liquid, viscous
Colour:	red to brown
Odour:	product specific, amine-like
Odour threshold:	not determined

pH value:	approx. 9	(DIN EN 1262)
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pour point:	approx. -25 °C	(DIN ISO 3016)
Boiling point:	> 250 °C	(estimated)

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(DIN EN 22719; ISO 2719)

Flash point:	approx. 170 °C	
Evaporation rate:	Value can be approximated from Henry's Law Constant or vapor pressure.	
Flammability (solid/gas):	hardly combustible	
Lower explosion limit:	For liquids not relevant for classification and labelling., The lower explosion point may be 5 - 15 °C below the flash point.	
Upper explosion limit:	For liquids not relevant for classification and labelling.	
Ignition temperature:	> 300 °C	
Self ignition:	not self-igniting	
Explosion hazard:	not explosive	
Fire promoting properties:	not fire-propagating	
Vapour pressure:	not determined	
Density:	approx. 1.05 g/cm <sup>3</sup> (23 °C)	(DIN 51757)
	approx. 1.04 g/cm <sup>3</sup> (40 °C)	(DIN 51757)
Relative density:	No data available.	
Relative vapour density (air):	not determined	
Solubility in water:	soluble	
Hygroscopy:	hygroscopic	
Solubility (qualitative) solvent(s):	Ethanol, isopropanol soluble	
Partitioning coefficient n-octanol/water (log Pow):	not applicable	
Surface tension:	approx. 36 mN/m (20 °C; 0.5 %(V))	(DIN EN 14370)
Viscosity, dynamic:	approx. 850 mPa.s (23 °C)	(DIN EN 12092)
	approx. 300 mPa.s (40 °C)	(DIN EN 12092)
	approx. 120 mPa.s (60 °C)	(DIN EN 12092)

**Other Information:**

If necessary, information on other physical and chemical parameters is indicated in this section.

## 10. Stability and Reactivity

Conditions to avoid:

See MSDS section 7 - Handling and storage.

Substances to avoid:

acids, Alkalines, caustics, halogens, reactive chemicals

Hazardous reactions:

No hazardous reactions when stored and handled according to instructions.

Hazardous decomposition products:

No hazardous decomposition products if stored and handled as prescribed/indicated.

## 11. Toxicological Information

### Acute toxicity

Assessment of acute toxicity:

Of moderate toxicity after single ingestion.

Experimental/calculated data:

LD50 rat (oral): > 300 - <= 2000 mg/kg

LC50 rat (by inhalation):

No data available.

LD50 rat (dermal):

No data available.

Information on: Dimethylaminepropylamine, reaction products with castor oil, ethoxylated, quaternized with dimethylsulfate

Experimental/calculated data:

LD50 rat (oral): > 2000 - <= 5000 mg/kg (OECD Guideline 423)

Information on: Amines, coco alkyl, ethoxylated

Experimental/calculated data:

LD50 rat (oral): > 300 - <= 2000 mg/kg

Literature data.  
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### Irritation

Assessment of irritating effects:

May cause severe damage to the eyes. Not irritating to the skin.

Information on: Dimethylaminepropylamine, reaction products with castor oil, ethoxylated, quaternized with dimethylsulfate

Experimental/calculated data:

Skin corrosion/irritation: Non corrosive. (OECD Guideline 431)

Skin corrosion/irritation rabbit: Slightly irritating. (OECD Guideline 404)

Information on: Amines, coco alkyl, ethoxylated  
Experimental/calculated data:  
Skin corrosion/irritation rabbit: non-irritant  
Literature data.  
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Information on: Dimethylaminepropylamine, reaction products with castor oil, ethoxylated,  
quaternized with dimethylsulfate  
Experimental/calculated data:  
Serious eye damage/irritation rabbit: irreversible damage (OECD Guideline 405)

Information on: Amines, coco alkyl, ethoxylated  
Experimental/calculated data:  
Serious eye damage/irritation: irreversible damage  
Literature data.  
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### **Respiratory/Skin sensitization**

Assessment of sensitization:  
May cause sensitization by skin contact.

Information on: Dimethylaminepropylamine, reaction products with castor oil, ethoxylated,  
quaternized with dimethylsulfate  
Experimental/calculated data:  
Mouse Local Lymph Node Assay (LLNA) mouse: skin sensitizing (OECD Guideline 429)

Information on: Amines, coco alkyl, ethoxylated  
Experimental/calculated data:  
Guinea pig maximization test guinea pig: Non-sensitizing. (other)  
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### **Germ cell mutagenicity**

Assessment of mutagenicity:  
Based on available Data, the classification criteria are not met.

### **Carcinogenicity**

Assessment of carcinogenicity:  
No data available.

### **Reproductive toxicity**

Assessment of reproduction toxicity:  
No data available.

### **Developmental toxicity**

Assessment of teratogenicity:  
No data available.

### **Specific target organ toxicity (single exposure):**



Remarks: No data available.

### Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity:  
No data available.

### Aspiration hazard

No aspiration hazard expected.

### Other relevant toxicity information

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

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## 12. Ecological Information

### Ecotoxicity

Toxicity to fish:  
LC50 > 1 - <= 10 mg/l, *Leuciscus idus*

Aquatic invertebrates:  
EC50 > 1 - <= 10 mg/l, *Daphnia magna*

Aquatic plants:  
EC50 > 1 - <= 10 mg/l, algae  
acute Effect

No observed effect concentration > 0,1 - <= 1 mg/l, algae  
long-term effect

Microorganisms/Effect on activated sludge:  
EC0 (30 min) > 10 - <= 100 mg/l, *Pseudomonas putida*

Chronic toxicity to fish:  
No data available.

Chronic toxicity to aquatic invertebrates:  
No data available.

| Information on: Amines, coco alkyl, ethoxylated  
| Toxicity to fish:  
| LC50 (48 h) > 1 - <= 10 mg/l, *Leuciscus idus*  
Literature data.

| Information on: Dimethylaminepropylamine, reaction products with castor oil, ethoxylated,  
| quaternized with dimethylsulfate  
| Aquatic invertebrates:  
| EC50 (48 h) > 1 - <= 10 mg/l, *Daphnia magna* (OECD Guideline 202, part 1)

Information on: Amines, coco alkyl, ethoxylated  
Aquatic invertebrates:  
EC50 > 10 - <= 100 mg/l, Daphnia magna  
Literature data.  
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Information on: Amines, coco alkyl, ethoxylated  
Aquatic plants:  
EC50 > 1 - <= 10 mg/l, algae  
acute Effect Literature data.

No observed effect concentration > 0,1 - <= 1 mg/l, algae  
long-term effect Literature data.  
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Assessment of terrestrial toxicity:  
No data available concerning terrestrial toxicity.

### **Mobility**

Assessment transport between environmental compartments:  
The substance will not evaporate into the atmosphere from the water surface.  
Adsorption to solid soil phase is possible.

### **Persistence and degradability**

Assessment biodegradation and elimination (H<sub>2</sub>O):  
Product is expected to be readily biodegradable.

Information on: Dimethylaminepropylamine, reaction products with castor oil, ethoxylated,  
quaternized with dimethylsulfate

Information on: Amines, coco alkyl, ethoxylated  
Assessment biodegradation and elimination (H<sub>2</sub>O):  
Readily biodegradable.  
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### **Bioaccumulation potential**

Assessment bioaccumulation potential:  
Accumulation in organisms is not to be expected.

### **Additional information**

Add. remarks environm. fate & pathway:  
Treatment in biological waste water treatment plants has to be performed according to local and administrative regulations.

Other ecotoxicological advice:  
The product has not been tested. The statements on ecotoxicology have been derived from the properties of the individual components.

### 13. Disposal Considerations

Must be disposed of or incinerated in accordance with local regulations.

Contaminated packaging:

Uncontaminated packaging can be re-used.

Packs that cannot be cleaned should be disposed of in the same manner as the contents.

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### 14. Transport Information

**Domestic transport:**

Not classified as a dangerous good under transport regulations

**Sea transport**

IMDG

Not classified as a dangerous good under transport regulations

**Air transport**

IATA/ICAO

Not classified as a dangerous good under transport regulations

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### 15. Regulatory Information

Hazard determining component(s) for labelling: COCONUT FATTY AMINE ETHOXYLATE, N-(ETHOXYLATED CASTOR-OIL ACYL)-3-AMINO-N,N,N-TRIMETHYL-1-PROPANAMINIUM DERIVATIVES, METHYLSULFATES

**Other regulations**

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

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### 16. Other Information

This product is of industrial quality and unless otherwise specified or agreed intended exclusively for industrial use. This includes the mentioned and recommended usage. Any other intended applications should be discussed with the manufacturer. In particular this concerns the application for products that are the object of special standards and regulations.

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