

# Safety Data Sheet

## Agnique® AMD 12

Revision date : 2016/06/01

Version: 2.0

Page: 1/11

(30536771/SDS\_GEN\_US/EN)

### 1. Identification

#### Product identifier used on the label

## Agnique® AMD 12

#### Recommended use of the chemical and restriction on use

Recommended use\*: additives

\* The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

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

##### Company:

BASF CORPORATION  
100 Park Avenue  
Florham Park, NJ 07932, USA

Telephone: +1 973 245-6000

#### Emergency telephone number

CHEMTREC: 1-800-424-9300  
BASF HOTLINE: 1-800-832-HELP (4357)

#### Other means of identification

Synonyms: N,N-DIMETHYLDODECANAMIDE

### 2. Hazards Identification

#### According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

#### Classification of the product

Skin Corr./Irrit.	2	Skin corrosion/irritation
Eye Dam./Irrit.	2A	Serious eye damage/eye irritation
STOT SE	3 (irritating to respiratory system)	Specific target organ toxicity — single exposure
Aquatic Acute	1	Hazardous to the aquatic environment - acute
Aquatic Chronic	3	Hazardous to the aquatic environment - chronic

#### Label elements

# Safety Data Sheet

## Agnique® AMD 12

Revision date : 2016/06/01  
Version: 2.0

Page: 2/11  
(30536771/SDS\_GEN\_US/EN)

Pictogram:



Signal Word:

Warning

Hazard Statement:

H319	Causes serious eye irritation.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.
H400	Very toxic to aquatic life.

Precautionary Statements (Prevention):

P280	Wear protective gloves and eye/face protection.
P273	Avoid release to the environment.
P271	Use only outdoors or in a well-ventilated area.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash with plenty of water and soap thoroughly after handling.

Precautionary Statements (Response):

P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P303 + P352	IF ON SKIN (or hair): Wash with plenty of soap and water.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P391	Collect spillage.
P337 + P311	If eye irritation persists: Call a POISON CENTER or doctor/physician.
P362 + P364	Take off contaminated clothing and wash it before reuse.

Precautionary Statements (Storage):

P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.

Precautionary Statements (Disposal):

P501	Dispose of contents/container to hazardous or special waste collection point.
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### Hazards not otherwise classified

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

## 3. Composition / Information on Ingredients

**According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200**

<u>CAS Number</u>	<u>Weight %</u>	<u>Chemical name</u>
3007-53-2	75.0 - 100.0%	Dodecanamide, N,N-dimethyl-

# Safety Data Sheet

## Agnique® AMD 12

Revision date : 2016/06/01  
Version: 2.0

Page: 3/11  
(30536771/SDS\_GEN\_US/EN)

### 4. First-Aid Measures

#### Description of first aid measures

##### General advice:

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Immediately remove contaminated clothing.

##### If inhaled:

Keep patient calm, remove to fresh air, seek medical attention.

##### If on skin:

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

##### If in eyes:

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

##### If swallowed:

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

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

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.

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

##### Note to physician

Treatment:

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

### 5. Fire-Fighting Measures

#### Extinguishing media

Suitable extinguishing media:  
water spray, dry powder, foam

Unsuitable extinguishing media for safety reasons:  
water jet

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

Hazards during fire-fighting:

hydrogen cyanide, harmful vapours, carbon oxides, nitrogen oxides

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

#### Advice for fire-fighters

Protective equipment for fire-fighting:

Wear a self-contained breathing apparatus.

# Safety Data Sheet

## Agnique® AMD 12

Revision date : 2016/06/01  
Version: 2.0

Page: 4/11  
(30536771/SDS\_GEN\_US/EN)

### 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

### Further accidental release measures:

If large amounts are released contact the fire service.

### Personal precautions, protective equipment and emergency procedures

Use personal protective clothing. Information regarding personal protective measures see, section 8. Ensure adequate ventilation. Do not breathe vapour/spray. Avoid contact with the skin, eyes and clothing.

### Environmental precautions

Do not discharge into drains/surface waters/groundwater.

### Methods and material for containment and cleaning up

For small amounts: Pick up with absorbent material (e.g. sand, sawdust, general-purpose binder). Dispose of absorbed material in accordance with regulations.

For large amounts: Pump off product.

Spills should be contained, solidified, and placed in suitable containers for disposal.

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## 7. Handling and Storage

### Precautions for safe 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. Avoid all sources of ignition: heat, sparks, open flame.

### Conditions for safe storage, including any incompatibilities

Suitable materials for containers: High density polyethylene (HDPE), Stainless steel 1.4541, Stainless steel 1.4571, Stainless steel 1.4401, glass

Further information on storage conditions: Keep container tightly closed and dry; store in a cool place. Below 10 °C, the product is no longer pumpable.

### Storage stability:

Storage temperature:  $\leq 40$  °C

The packed product is not damaged by low temperatures or by frost. Bulk must be protected from frost.

Protect from temperatures above: 40 °C

Properties of the product change irreversibly on exceeding the limit temperature.

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## 8. Exposure Controls/Personal Protection

No occupational exposure limits known.

# Safety Data Sheet

## Agnique® AMD 12

Revision date : 2016/06/01  
Version: 2.0

Page: 5/11  
(30536771/SDS\_GEN\_US/EN)

### Advice on system design:

Draw off vapours directly at the point of generation and exit. In the case of regular work, provide bench-mounted extraction equipment.

### Personal protective equipment

#### Respiratory protection:

Wear respiratory protection if ventilation is inadequate. Breathing protection if breathable aerosols/dust are formed.

#### Hand protection:

Chemical resistant protective gloves

#### Eye protection:

Tightly fitting safety goggles (chemical goggles) and face shield.

#### Body protection:

Body protection must be chosen based on level of activity and exposure.

### 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. Do not breathe vapour/spray. Consider the risk management measures as outlined in the exposure scenario. 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	
Odour:	product specific	
Odour threshold:	Not determined due to potential health hazard by inhalation.	
Colour:	colourless to yellowish	
pH value:	No data available., not soluble	
pour point:	approx. 8 °C	(DIN ISO 3016)
melting range:	2 - 21 °C	(Directive 92/69/EEC, A.1)
decomposition point:	(approx. 1,013 hPa) >= 319 °C (approx. 999 hPa) The substance / product decomposes.	(Directive 92/69/EEC, A.2)
Flash point:	approx. 151 °C	(Directive 92/69/EEC, A.9, closed cup)
Flammability:	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.	
Autoignition:	approx. 235 °C	(Directive 92/69/EEC, A.15)
Vapour pressure:	<= 0.17 Pa ( 20 °C)	(Directive 92/69/EEC, A.4)
Density:	approx. 0.8718 g/cm3 ( 20 °C)	(DIN 51757)

# Safety Data Sheet

## Agnique® AMD 12

Revision date : 2016/06/01  
Version: 2.0

Page: 6/11  
(30536771/SDS\_GEN\_US/EN)

	approx. 0.855 g/cm <sup>3</sup> ( 50 °C)	(DIN 51757)
Relative density:	approx. 0.877 ( 20 °C, approx. 1,013 hPa)	(Directive 92/69/EEC, A.3)
Vapour density:	not determined	
Partitioning coefficient n-octanol/water (log Pow):	approx. 5.2 ( 20 °C)	(OECD Guideline 117)
Self-ignition temperature:	20 °C	
Thermal decomposition:	not self-igniting not determined	
Viscosity, dynamic:	approx. 8.5 mPa.s ( 20 °C)	(OECD 114)
	approx. 7 mPa.s ( 25 °C)	(DIN EN 12092)
	approx. 4.8 mPa.s ( 40 °C)	(OECD 114)
Particle size:	The substance / product is marketed or used in a non solid or granular form.	
% volatiles:	4.8 %	
Solubility in water:	insoluble	
Evaporation rate:	not determined	
Other Information:	If necessary, information on other physical and chemical parameters is indicated in this section.	

## 10. Stability and Reactivity

### Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Corrosion to metals:

Corrosive effects to metal are not anticipated.

Oxidizing properties:

not fire-propagating

Formation of flammable gases:	Remarks:	Forms no flammable gases in the presence of water.
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### Chemical stability

The product is stable if stored and handled as prescribed/indicated.

### Possibility of hazardous reactions

Reacts with oxidizing agents.

### Conditions to avoid

See MSDS section 7 - Handling and storage.

### Incompatible materials

acids, Alkalines, caustics, halogens, reactive chemicals

### Hazardous decomposition products

Decomposition products:

Hazardous decomposition products: carbon oxides, nitrogen oxides

Thermal decomposition:

# Safety Data Sheet

## Agnique® AMD 12

Revision date : 2016/06/01  
Version: 2.0

Page: 7/11  
(30536771/SDS\_GEN\_US/EN)

not determined

### 11. Toxicological information

#### Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

#### Acute Toxicity/Effects

##### Acute toxicity

Assessment of acute toxicity: Of low toxicity after single ingestion. Virtually nontoxic by inhalation. Virtually nontoxic after a single skin contact.

##### Oral

Type of value: LD50

Species: rat

Value: > 2,000 - < 5,000 mg/kg (OECD Guideline 420)

Analogous: Assessment derived from products with similar chemical character.

##### Inhalation

Type of value: LC50

Species: rat (male/female)

Value: > 3.55 mg/l (OECD Guideline 403)

Exposure time: 4 h

Analogous: Assessment derived from products with similar chemical character.

##### Dermal

Type of value: LD50

Species: rat (male/female)

Value: > 5,000 mg/kg (OECD Guideline 402)

Analogous: Assessment derived from products with similar chemical character.

No mortality was observed.

##### Assessment other acute effects

Assessment of STOT single:

Causes temporary irritation of the respiratory tract.

##### Irritation / corrosion

Assessment of irritating effects: Eye contact causes irritation. Skin contact causes irritation.

##### Skin

Species: In vitro assay

Result: Irritant.

Method: OECD Guidelines 431/439

##### Eye

Species: rabbit

Result: Irritant.

Method: OECD Guideline 405

Analogous: Assessment derived from products with similar chemical character.

Species: In vitro assay

Result: Irritant.

# Safety Data Sheet

## Agnique® AMD 12

Revision date : 2016/06/01  
Version: 2.0

Page: 8/11  
(30536771/SDS\_GEN\_US/EN)

Method: OECD Guideline 492

Species: In vitro assay  
Result: Irritant.  
Method: BCOP

### Sensitization

Assessment of sensitization: Skin sensitizing effects were not observed in animal studies.

Buehler test

Species: guinea pig  
Result: Skin sensitizing effects were not observed in animal studies.  
Method: OECD Guideline 406  
Analogous: Assessment derived from products with similar chemical character.

### Aspiration Hazard

No aspiration hazard expected.

## Chronic Toxicity/Effects

### Repeated dose toxicity

Assessment of repeated dose toxicity: After repeated exposure the prominent effect is local irritation. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

### Genetic toxicity

Assessment of mutagenicity: The substance was not mutagenic in bacteria. The substance was not mutagenic in mammalian cell culture. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

### Carcinogenicity

Assessment of carcinogenicity: The whole of the information assessable provides no indication of a carcinogenic effect. The product has not been fully tested. The statements have been derived in parts from products of a similar structure or composition.

### Reproductive toxicity

Assessment of reproduction toxicity: The results of animal studies gave no indication of a fertility impairing effect. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

### Teratogenicity

Assessment of teratogenicity: The substance did not cause malformations in animal studies; however, toxicity to development was observed at high doses that were toxic to the parental animals. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

## Symptoms of Exposure

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.

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## 12. Ecological Information

### Toxicity

#### Toxicity to fish



# Safety Data Sheet

## Agnique® AMD 12

Revision date : 2016/06/01

Version: 2.0

Page: 9/11

(30536771/SDS\_GEN\_US/EN)

LC50 (96 h) > 1 mg/l, Brachydanio rerio (other, semistatic)

The details of the toxic effect relate to the nominal concentration. The value meets the highest applied test concentration.

### Aquatic invertebrates

EC50 (48 h) 0.313 mg/l, Daphnia magna (OECD Guideline 202, part 1, semistatic)

The details of the toxic effect relate to the nominal concentration.

### Aquatic plants

EC10 (72 h) 0.435 mg/l (growth rate), Pseudokirchneriella subcapitata (OECD Guideline 201, static)

The statement of the toxic effect relates to the analytically determined concentration.

EC50 (72 h) 0.805 mg/l (growth rate), Pseudokirchneriella subcapitata (OECD Guideline 201, static)

The statement of the toxic effect relates to the analytically determined concentration.

### Chronic toxicity to fish

No data available.

### Chronic toxicity to aquatic invertebrates

No data available.

## Microorganisms/Effect on activated sludge

### Toxicity to microorganisms

other static

activated sludge, domestic/EC10 (3 h): 20 mg/l

other static

activated sludge, domestic/EC50 (3 h): 170 mg/l

## Persistence and degradability

### Assessment biodegradation and elimination (H<sub>2</sub>O)

Readily biodegradable (according to OECD criteria).

### Elimination information

> 60 % CO<sub>2</sub> formation relative to the theoretical value (28 d) (OECD 301B; ISO 9439; 92/69/EEC, C.4-C) (aerobic, activated sludge, domestic, non-adapted)

## Bioaccumulative potential

### Assessment bioaccumulation potential

Based on a weight of evidence, the compound will not bioaccumulate.

## Mobility in soil

### Assessment transport between environmental compartments

The substance will slowly evaporate into the atmosphere from the water surface.

Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater is not 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.

# Safety Data Sheet

## Agnique® AMD 12

Revision date : 2016/06/01  
Version: 2.0

Page: 10/11  
(30536771/SDS\_GEN\_US/EN)

### 13. Disposal considerations

**Waste disposal of substance:**

Dispose of in accordance with national, state and local regulations. Do not discharge into drains/surface waters/groundwater.

**Container disposal:**

Recommend crushing, puncturing or other means to prevent unauthorized use of used containers. Dispose of in accordance with national, state and local regulations.

### 14. Transport Information

**Land transport**

USDOT

Hazard class:	9
Packing group:	III
ID number:	UN 3082
Hazard label:	9, EHSM
Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains N,N-DIMETHYLDODECANAMIDE)

**Sea transport**

IMDG

Hazard class:	9
Packing group:	III
ID number:	UN 3082
Hazard label:	9, EHSM
Marine pollutant:	YES
Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains N,N-DIMETHYLDODECANAMIDE)

**Air transport**

IATA/ICAO

Hazard class:	9
Packing group:	III
ID number:	UN 3082
Hazard label:	9, EHSM
Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains N,N-DIMETHYLDODECANAMIDE)

### 15. Regulatory Information

**Federal Regulations****Registration status:**

Chemical TSCA, US released / listed

**EPCRA 311/312 (Hazard categories):** Acute;

# Safety Data Sheet

## Agnique® AMD 12

Revision date : 2016/06/01  
Version: 2.0

Page: 11/11  
(30536771/SDS\_GEN\_US/EN)

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**NFPA Hazard codes:**

Health : 2      Fire: 1      Reactivity: 0      Special:

**HMIS III rating**

Health: 2      Flammability: 1      Physical hazard:

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### 16. Other Information

**SDS Prepared by:**

BASF NA Product Regulations

SDS Prepared on: 2016/06/01

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