

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



600199 AMBROCENIDE® CRYST.

Version 12

Revision Date 28.06.2017

Print Date 16.08.2017

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

1.1 Product identifier

Commercial Product Name : AMBROCENIDE® CRYST.
Material number : 600199
Substance name : 4H-4a,9-Methanoazuleno[5,6-d]-1,3-dioxole, octahydro-2,2,5,8,8,9a-hexamethyl-, (4aR,5R,7aS,9R)-
REACH Registration Number : 01-0000017394-68-0000
01-0000017394-68-0001
CAS-No. : 211299-54-6
EC-No. : 427-580-1

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

Use of the Substance/Mixture : Fragrance

1.3 Details of the supplier of the safety data sheet

Company : Symrise AG
Muehlenfeldstrasse 1
D-37603 Holzminden
Telephone : +495531900
Telefax : +495531901649
E-mail address : sds@symrise.com

For further information, please contact:
Symrise AG - Tel.: +49 / (0)5531 / 90-0

1.4 Emergency telephone number

Emergency CONTACT (24-Hour-Number)
GBK/Infotrac ID 101844: +49(6132)9829021

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin irritation, Category 2 H315
Eye irritation, Category 2 H319

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

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Hazard pictograms :



Signal word : **Warning**

Hazard statements : **H315** Causes skin irritation.
H319 Causes serious eye irritation.

Precautionary statements : **Prevention:**
P264 Wash skin thoroughly after handling.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:
P302 + P352 IF ON SKIN: Wash with plenty of water.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332 + P313 If skin irritation occurs: Get medical advice/ attention.
P337 + P313 If eye irritation persists: Get medical advice/ attention.

Contains : 4H-4A,9-METHANOAZULENO[5,6-d]-1,3-DIOXOLE, OCTAHYDRO-2,2,5,8,8,9A-HEXAMETHYL-, (4AR,5R,7AS,9R)-

2.3 Other hazards

No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Chemical characterization : 4H-4a,9-Methanoazuleno[5,6-d]-1,3-dioxole, octahydro-2,2,5,8,8,9a-hexamethyl-, (4aR,5R,7aS,9R)-

Molecular weight : 278,4 g/mol

CAS-No. : 211299-54-6

EINECS-No. / ELINCS No. : 427-580-1

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3.2 Mixtures

Hazardous components

Not applicable

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SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

- General advice : Move out of dangerous area.
Never give anything by mouth to an unconscious person.
- Inhalation : Move to fresh air.
- Skin contact : If skin irritation persists, call a physician.
Wash off immediately with plenty of water for at least 15 minutes.
- Eye contact : Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.
Remove contact lenses.
- Ingestion : Clean mouth with water and drink afterwards plenty of water.
Prevent vomiting if possible.
If a person vomits when lying on his back, place him in the recovery position.
Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

No data available

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

- Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Extinguishing media which shall not be used for safety reasons : High volume water jet

5.2 Special hazards arising from the substance or mixture

- Specific hazards during firefighting : Do not use a solid water stream as it may scatter and spread fire.

5.3 Advice for firefighters

- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
- Further information : In the event of fire and/or explosion do not breathe fumes.
Use water spray to cool unopened containers.

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SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Ensure adequate ventilation.
Avoid dust formation.
Use personal protective equipment.

6.2 Environmental precautions

Environmental precautions : No special environmental precautions required.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Pick up and transfer to properly labelled containers.
Use mechanical handling equipment.
Dam up.

Additional advice : Local authorities should be advised if significant spillages cannot be contained.

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling : For personal protection see section 8.

Advice on protection against fire and explosion : When using do not smoke.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep out of reach of children.
Store in original container.
Keep container tightly closed in a dry and well-ventilated place.
To maintain product quality, do not store in heat or direct sunlight.

Advice on common storage : No special restrictions on storage with other products.

Other data : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Fragrance

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

none

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8.2 Exposure controls

Engineering measures

none

Personal protective equipment

- Respiratory protection : No personal respiratory protective equipment normally required.
- Hand protection : Barrier creams may help to protect the exposed areas of skin, they should however not be applied once exposure has occurred.
Wear chemicals-resistant gloves, e.g. safety gloves of chloroprene Level 2 or of butyl rubber Level 6.
- Eye protection : Safety glasses
- Skin and body protection : Lightweight protective clothing
Remove and wash contaminated clothing before re-use.
- Hygiene measures : Wash hands before breaks and immediately after handling the product.
- Protective measures : Avoid contact with skin.
When using do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance

- Form : crystals
- Colour : pale white to white
- Odour : characteristic
- Odour Threshold : No data available

Safety data

- Flash point : 150 °C
Method: ISO 3679
GLP: no
- Water solubility : ca. 0,00428 g/l
Method: OECD Test Guideline 105
- Relative density : 1,094 at
20 °C relation to density of water at 4°C
- Bulk density : < 1.500 kg/m³
- Relative vapour density : Not applicable
- Vapour pressure : 0,0006 hPa at 20 °C
Method: OECD Test Guideline 104
- Melting point/freezing point : Melting point/range
52,6 - 58,3 °C at 1.013 hPa

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Boiling point	:	> 280,5 °C Method: OECD Test Guideline 103 GLP: yes
Partition coefficient: n-octanol/water	:	log Pow: 4,84
pH	:	Not applicable
Evaporation rate	:	not determined
Flammability (solid, gas)	:	The substance or mixture is not classified as flammable
Ignition temperature	:	360 °C at 1.017 hPa ,Method: DIN 51794 GLP: no
Auto-ignition temperature	:	The substance or mixture is not classified as self heating.
Decomposition temperature	:	No data available
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
Explosive properties	:	Due to its structural properties, the product is not classified as explosive
Lower explosion limit	:	Dust can form an explosive mixture in air.
Upper explosion limit	:	Dust can form an explosive mixture in air.

A final assessment of potential explosion hazards can only be made on a case-by-case basis when precise information is available on product handling, production setup and the circumstances surrounding the use of the product.

9.2 Other data

None.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity	:	No data available
10.2 Chemical stability	:	No data available
10.3 Possibility of hazardous reactions	:	No dangerous reaction known under conditions of normal use.
10.4 Conditions to avoid	:	No data available
10.5 Incompatible materials to avoid	:	No data available
10.6 Hazardous decomposition products	:	No data available

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute oral toxicity	:	LD50 Rat: > 2.000 mg/kg, OECD Test Guideline 401
Acute inhalation toxicity	:	No data available

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Acute dermal toxicity	: LD50 Rat: > 2.000 mg/kg, OECD Test Guideline 402
Repeated dose toxicity	: LOAEL Rat; Oral; OECD Test Guideline 407
Acute toxicity (other routes of administration)	: No data available
Skin irritation	: Rabbit: Moderate irritation of skin @ 100 % Humans: No skin irritation @ 10 %
Eye irritation	: Rabbit: Eye irritation @ 100 %
Sensitisation	: Guinea pig: No sensitizing effect. @ 100 % Humans: No sensitizing effect. @ 2,5 %
Mutagenicity	: No experimental indication of genotoxicity in vitro.
Carcinogenicity	: No data available
Reproductive toxicity	: No data available
Teratogenicity	: No data available
Specific target organ toxicity - single exposure	: No data available
Specific target organ toxicity - repeated exposure	: No data available
Aspiration toxicity	: No data available

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Acute Fish toxicity	: LC50: > 2,77 mg/l/96 h; Oncorhynchus mykiss (rainbow trout), OECD Test Guideline 203
Acute toxicity Aquatic invertebrates	: EC50: > 3,12 mg/l/48 h; Daphnia magna (Water flea), OECD Test Guideline 202
Toxicity to aquatic plants	: ErC50: > 4,3 mg/l/72 h; scenedesmus subspica, OECD Test Guideline 201
Toxicity to microorganisms	: EC50: > 4,3 mg/l/3 h; Activated sludge, OECD 209

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12.2 Persistence and degradability

Not readily biodegradable.
0 %/28 d, OECD 301D

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects

None known.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product : Where possible recycling is preferred to disposal or incineration.
If recycling is not practicable, dispose of in compliance with local regulations.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.

SECTION 14: TRANSPORT INFORMATION

14.1 UN number

Not classified as dangerous in the meaning of transport regulations.

14.2 Proper shipping name

Not classified as dangerous in the meaning of transport regulations.

14.3 Transport hazard class

Not classified as dangerous in the meaning of transport regulations.

14.4 Packing group

Not classified as dangerous in the meaning of transport regulations.

14.5 Environmental hazards

Not classified as dangerous in the meaning of transport regulations.

14.6 Special precautions for user

Not classified as dangerous in the meaning of transport regulations.

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

Not classified as dangerous in the meaning of transport regulations.

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SECTION 15: REGULATORY INFORMATION

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

National legislation

Risk classification according to BetrSichV (Germany) : Not applicable

Water contaminating class (Germany) : WGK 1 (slightly water endangering)

15.2 Chemical safety assessment

No data available

SECTION 16: OTHER INFORMATION

Further information

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. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Any data changes with reference to previous versions are marked by a vertical line in front of the concerned paragraph.