

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 20.04.2009

Version 14

Revision: 17.04.2009

1 Identification of substance:

- **Product details:**
- **Trade name: Anti-Algenchip**
- **Article number:** 07147, 08147
- **Application of the substance / the preparation**
Printing and reproduction of recorded media
Photographic activities
Reserved for industrial and professional use.
Algicide
- **Manufacturer/Supplier:**
ADEFO-CHEMIE GmbH
Justus-von-Liebig-Str. 24-26
D-63128 Dietzenbach
Tel.: +49 6074 84239-0
Fax: +49 6074 84239-63
E-Mail: service@adefo-chemie.de
www.adefo-chemie.de
- **Informing department:**
Tel.: +49 6074 84239-0
Fax: +49 6074 84239-63
Competent person according to 1907/2006/EC, Annex II:
E-Mail: kr@calbe-chemie.de
- **Emergency information:** Tel.: 0700-24112112 (CAL)

2 Hazards identification

- **Hazard designation:**



Xn Harmful
O Oxidising

- **Information pertaining to particular dangers for man and environment**
R 36/37 Irritating to eyes and respiratory system.
R 8 Contact with combustible material may cause fire.
R 22 Harmful if swallowed.
R 31 Contact with acids liberates toxic gas.

3 Composition/information on ingredients

- **Chemical characterization:**
- **CAS No. Designation:**
87-90-1 symclosene
- **Identification number(s):**
- **EINECS Number:** 201-782-8
- **Index number:** 613-031-00-5
- **Chemical characterization**
- **Description:** Tablette im Kunststoffbehältnis

4 First aid measures

- **General information** Instantly remove any clothing soiled by the product.

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- **After inhalation** Supply fresh air; consult doctor in case of symptoms.
- **After skin contact** Instantly wash with water and soap and rinse thoroughly.
- **After eye contact**
Rinse opened eye for several minutes under running water (> 15 min). Then consult doctor.
- **After swallowing**
Rinse out mouth and then drink plenty of water.
Instantly call for doctor.
- **Information for doctor**
- **The following symptoms may occur:** No known symptoms to date.

5 Fire fighting measures

- **Suitable extinguishing agents** CO₂, sand, extinguishing powder. Do not use water.
- **For safety reasons unsuitable extinguishing agents** Water.
- **Special hazards caused by the material, its products of combustion or resulting gases:**
Formation of poisonous gases during heating or in fires.
- **Protective equipment:** Put on breathing apparatus.

6 Accidental release measures

- **Person-related safety precautions:** Wear protective clothing.
- **Measures for environmental protection:**
Do not allow to enter drainage system, surface or ground water.
- **Measures for cleaning/collecting:**
Collect mechanically.
Ensure adequate ventilation.
Dispose of contaminated material as waste according to item 13.
- **Additional information:**
See Section 8 for information on personal protection equipment.
See Section 13 for information on disposal.

7 Handling and storage

- **Handling**
- **Information for safe handling:** No special precautions necessary if used correctly.
- **Information about protection against explosions and fires:** No special measures required.
- **Storage**
- **Requirements to be met by storerooms and containers:** No special requirements.
- **Information about storage in one common storage facility:** Do not store together with acids.
- **Further information about storage conditions:**
Keep container tightly sealed.
Store in cool, dry conditions in well sealed containers.
- **Storage class** LGK 5.1B (VCI-Concept)

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8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Components with limit values that require monitoring at the workplace:** Not required.
- **Additional information:** The lists that were valid during the compilation were used as basis.
- **Personal protective equipment**
- **General protective and hygienic measures**

The usual precautionary measures should be adhered to general rules for handling chemicals.
Keep away from foodstuffs, beverages and food.
Take off immediately all contaminated clothing
Wash hands during breaks and at the end of the work.
Avoid contact with the eyes and skin.
- **Protection of hands:**

Protective gloves.
The protective gloves to be used must comply with the specifications of the EC directive 89/686/EEC and the resultant standard EN 374.
This recommendation applies only to the product stated in the Safety Data Sheet and supplied by us as well as to the purpose specified by us.
Only use chemical-protective gloves with CE-labelling of category III.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **Material of gloves**

Nitrile rubber, NBR
Recommended thickness of the material: ≥ 0.38 mm
- **Penetration time of glove material**

Value for permeation: Level ≥ 6 (480 min)
The determined penetration times according to EN 374 part III are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.
- **For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:**

Synthetic gloves
Value for permeation: Level:
 ≥ 3 (60 min)
- **Eye protection:** Safety glasses

9 Physical and chemical properties:

· General Information

Form:	Solid.
Colour:	Colourless
Odour:	Like chlorine

· Change in condition

Melting point/Melting range:	225-240°C
Boiling point/Boiling range:	Not determined

· Flash point:	Not applicable
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· Inflammability (solid, gaseous)	Feuergefahr bei Berührung mit brennbaren Stoffen
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· Danger of explosion:	Product is not explosive.
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- | | |
|--|---------------------------|
| · Density at 20°C | ca. 2.5 g/cm ³ |
| · Solubility in / Miscibility with Water at 25°C: | 12 g/l |
| · pH-value (10 g/l) at 25°C: | 3 |

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Dangerous reactions**
Reacts with flammable substances
Contact with acids releases toxic gases
- **Dangerous products of decomposition:** Chlorine

11 Toxicological information

- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

87-90-1 symclosene

Oral LD50 490 mg/kg (rat)

- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritant effect.
- **Sensitization:** No sensitizing effect known.
- **Subacute to chronic toxicity:** No known symptoms to date.

12 Ecological information:

- **Information about elimination (persistence and degradability):** Not determined
- **Behaviour in environmental systems:** Not determined
- **Mobility and bioaccumulation potential:** Not determined
- **Ecotoxicological effects:** Not determined
- **Aquatic toxicity:** Not determined
- **Behaviour in sewage processing plants:** Not determined
- **General notes:**
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water.
Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

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13 Disposal considerations

- **Product:**
- **Recommendation**
 Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
 Must be specially treated under adherence to official regulations.
- **Uncleaned packagings:**
- **Recommendation:**
 Non contaminated packagings can be used for recycling.
 Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.
 Packagings that cannot be cleaned are to be disposed of in the same manner as the product.
 EAK-No. 15 01 10
- **Recommended cleaning agent:** Water, if necessary with cleaning agent.

14 Transport information

· Land transport ADR/RID (cross-border)



- **ADR/RID-GGVS/E Class:** 5.1 Oxidising substances.
- **Kemler Number:** 50
- **UN-Number:** UN 2468
- **Packaging group:** II
- **Label** 5.1
- **Designation of goods:** TRICHLOROISOCYANURIC ACID, DRY
- **Remarks:** "Limited quantity" LQ 11 according to chapter 3.4 ADR, if carried in combination packagings with not more than 500 g per inner packaging and not more than 30 kg per package

· Maritime transport IMDG:



- **IMDG Class:** 5.1
- **UN Number:** UN 2468
- **Label** 5.1
- **Packaging group:** II
- **EMS Number:** F-A,S-Q
- **Correct technical name:** TRICHLOROISOCYANURIC ACID, DRY
- **Remarks:** "Limited quantity" according to chapter 3.4 IMDG, if carried in combination packagings with not more than 1 kg per inner packaging and not more than 30 kg per package

· Air transport ICAO-TI and IATA-DGR:



- **ICAO/IATA Class:** 5.1

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- **UN/ID Number:** UN 2468
- **Label** 5.1
- **Packaging group:** II
- **Correct technical name:** TRICHLOROISOCYANURIC ACID, DRY

15 Regulatory information

- **Designation according to EC guidelines:**
The product has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials (GefStoffV)
- **Code letter and hazard designation of product:**
 -   Xn Harmful
 - O Oxidising
- **Hazard-determining components of labelling:**
symclosene
- **Risk phrases:**
 - 36/37 Irritating to eyes and respiratory system.
 - 8 Contact with combustible material may cause fire.
 - 22 Harmful if swallowed.
 - 31 Contact with acids liberates toxic gas.
- **Safety phrases:**
 - 8 Keep container dry.
 - 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 - 41 In case of fire and/or explosion do not breathe fumes.
- **National regulations**
- **Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water.

16 Other information:

- These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.
- **Recommended restriction of use** No public product, only for commercial use
- **Sources**
applicable EEC directives:
 - 1999/45/EC last change 2006/8/EC
 - 67/548/EC last change 2004/73/EC (29. ATP)
 Internal physical tests, MSDS of the ingredients
- *** Data compared to the previous version altered.**