

Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH)
Classifications according to Regulation (EC) No 1272/2008.
Printdate 22 Mar 2024

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product name:

Allidochlor

1.1. Catalog No.:

685038

1.2. Relevant identified uses of the substance or mixture

Identified: Laboratory chemical
uses: R&D

1.3. Uses advised against:

HPC Standards GmbH
Am Wieseneck 7

04451 Cunnersdorf
Deutschland

Tel. +49 34291 3372-36
Fax. +49 34291 3372-39
contact@hpc-standards.com

1.4. Emergency telephone number

HPC Standards Tel. +49 34291 3372-36
This number is only available during office hours.

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture
GHS06 Skull and crossbones
Acute Tox. 3 H301 Toxic if swallowed.
GHS09 Environment
Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.
GHS07
Acute Tox. 4 H312 Harmful in contact with skin.
Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2A H319 Causes serious eye irritation.

2.2. Label elements

2.2.1. Pictogram



2.2.2.

- 2.2 Label elements
 - Labeling according to Regulation (EC) No. 1272/2008
- The substance is classified and labeled according to the CLP regulation.
- Hazard pictograms
- GHS06 GHS09
- Signal word Danger
 - Hazard statements
- H301 Toxic if swallowed.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H411 Toxic to aquatic life with long lasting effects.
- Safety instructions
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.
If possible, remove contact lenses. Continue rinsing.
P321 Specific treatment (see on this label).
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/
international regulations.
- 2.3 Other hazards
 - Results of PBT and vPvB assessment
 - PBT: Not applicable.
 - vPvB: Not applicable.

3. COMPOSITION/INFORMATION ON INGREDIENTS

- Chemical characterization: Substances
 - CAS No. Description
- 93-71-0 allidochlor (ISO)
- Identification number(s) -
 - EC number: 202-270-7
 - Index number: 616-004-00-6
 - RTECS: AB 5250000

3.1.1. Formula

C₈H₁₂ClNO

3.1.2. Molecular Weight (g/mol)

173.64

3.1.3. CAS-No.

93-71-0

4. FIRST AID MEASURES

- Description of first aid measures
- General information:
Immediately remove any clothing soiled by the product.
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
In case of irregular breathing or respiratory arrest provide artificial respiration.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact:
Immediately wash with water and soap and rinse thoroughly.
Seek medical treatment.
If skin irritation continues, consult a doctor.
- After eye contact:
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing:
Rinse mouth. Do not induce vomiting.
Immediately call a doctor.
- Information for doctor:
· Most important symptoms and effects, both acute and delayed No further relevant information available.
· Indication of any immediate medical attention and special treatment needed
No further relevant information available.

5. FIRE-FIGHTING MEASURES

- Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- Special hazards arising from the substance or mixture
Formation of toxic gases is possible during heating or in case of fire.
- Advice for firefighters
- Protective equipment: Wear self-contained respiratory protective device.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures Wear protective clothing.
- Environmental precautions:
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
- Reference to other sections
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.
- Protective Action Criteria for Chemicals
- PAC-1: Substance is not listed.

- PAC-2: Substance is not listed.
- PAC-3: Substance is not listed.

7. HANDLING AND STORAGE

- Handling:
 - Precautions for safe handling Store in cool, dry place in tightly closed receptacles.
 - Information about protection against explosions and fires: No special measures required.
 - Conditions for safe storage, including any incompatibilities
- Storage:
 - Requirements to be met by storerooms and receptacles:
Please refer to the manufacturers certificate for specific storage and transport temperature conditions.
Store only in the original receptacle unless other advice is given on the CoA.
Keep container in a well-ventilated place. Keep away from sources of ignition and heat.
 - Information about storage in one common storage facility: Store away from foodstuffs.
 - Further information about storage conditions: Keep receptacle tightly sealed.
 - Specific end use(s) No further relevant information available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Additional information about design of technical systems: No further data; see item 7.
- Control parameters
- Components with limit values that require monitoring at the workplace: Not required.
- Additional information: The lists that were valid during the creation were used as basis.
- Exposure controls
- Personal protective equipment:
 - General protective and hygienic measures:
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
 - Breathing equipment:
Not required.
Use suitable respiratory protective device in case of insufficient ventilation.
 - Protection of hands:
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374
Protective gloves
 - Material of gloves Fluorocarbon rubber (Viton)
 - Penetration time of glove material
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
 - Eye protection:
Tightly sealed goggles

9. PHYSICAL AND CHEMICAL PROPERTIES

- Information on basic physical and chemical properties
- General Information
- Appearance:
Form: Liquid
Color: Yellow
- Odor: Odorless
- Odor threshold: Not determined.
- pH-value: Not determined.
- Change in condition
Melting point/Melting range: 25 °C (77 °F)
Boiling point/Boiling range: 74 °C (165.2 °F)
- Flash point: 100 °C (212 °F)
- Flammability (solid, gaseous): Not determined.
- Ignition temperature: Not determined
- Decomposition temperature: Not determined.
- Auto igniting: Not determined.
- Danger of explosion: Not determined
- Explosion limits:
Lower: Not determined.
Upper: Not determined.
- Vapor pressure at 20 °C (68 °F): 0.0125 hPa (0 mm Hg)
- Density at 20 °C (68 °F): 1.088 g/cm³ (9.07936 lbs/gal)
- Relative density Not determined.
- Vapor density Not determined.
- Evaporation rate Not determined.
- Solubility in / Miscibility with
Water at 10 °C (50 °F): 0.164 g/l
- Partition coefficient (n-octanol/water): 1.83 LogP
- Viscosity:
Dynamic: Not determined.
Kinematic: Not determined.
- Other information No further relevant information available.

10. STABILITY AND REACTIVITY

- Reactivity
Stable under normal conditions.
No further relevant information available.
- Chemical stability Stable under normal conditions.
- Thermal decomposition / conditions to be avoided:
Formation of toxic gases is possible during heating or in case of fire.
- Possibility of hazardous reactions No dangerous reactions known.
- Conditions to avoid Heat.
- Incompatible materials: Strong oxidizing agents.
- Hazardous decomposition products: Formation of toxic gases is possible during heating or in case of fire.

11. TOXICOLOGICAL INFORMATION

- Information on toxicological effects
- Acute toxicity:
LD/LC50 values that are relevant for classification:
Oral LD50 290 mg/kg (rat)
Dermal LD50 360 mg/kg (rat)
- Primary irritant effect:
on the skin: Irritant to skin and mucous membranes.
on the eye: Irritating effect.
- Sensitization: Based on available data, the classification criteria are not met.
- Additional toxicological information:
- Carcinogenic categories
- IARC (International Agency for Research on Cancer) Substance is not listed.

- NTP (National Toxicology Program) Substance is not listed.
- OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed

12. ECOLOGICAL INFORMATION

- Toxicity
- Aquatic toxicity:
EC50/72h 10 mg/l (Algae)
LC50/96 h 2 mg/l (fish)
- Persistence and degradability No further relevant information available.
- Behavior in environmental systems:
- Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
- Ecotoxicological effects:
- Remark: Toxic for fish
- Additional ecological information:
- General notes:
Water hazard class 3 (Self-assessment): extremely hazardous for water
Do not allow product to reach ground water, water course or sewage system, even in small quantities.
Danger to drinking water if even extremely small quantities leak into the ground.
Also poisonous for fish and plankton in water bodies.
Toxic for aquatic organisms
- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.
- Other adverse effects No further relevant information available

13. DISPOSAL CONSIDERATIONS

- Waste treatment methods
- Recommendation:
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- Uncleaned packagings:
- Recommendation: Dispose in accordance with national regulations

14. TRANSPORT INFORMATION

- UN-Number
- DOT, ADR, IMDG, IATA UN2996
- DOT Organochlorine pesticides, liquid, toxic (allidochlor (ISO))
- ADR 2996 ORGANOCHLORINE PESTICIDE, LIQUID, TOXIC (allidochlor (ISO)), ENVIRONMENTALLY HAZARDOUS
- IMDG ORGANOCHLORINE PESTICIDE, LIQUID, TOXIC (allidochlor (ISO)), MARINE POLLUTANT
- IATA ORGANOCHLORINE PESTICIDE, LIQUID, TOXIC (allidochlor (ISO))
- Transport hazard class(es)
- DOT
- Class 6.1 Toxic substances
- Label 6.1

- ADR, IMDG
- Class 6.1 Toxic substances
- Label 6.1
- IATA
- Class 6.1 Toxic substances
- Label 6.1
- Packing group
- DOT, ADR, IMDG, IATA III
- Environmental hazards: Environmentally hazardous substance, liquid; Marine Pollutant
- Marine pollutant: Yes (DOT)
- Symbol (fish and tree)
- Special marking (ADR): Symbol (fish and tree)
- Special precautions for user Warning: Toxic substances
- Danger code (Kemler): 60
- EMS Number: F-A,S-A
- Stowage Category A
- Stowage Code SW2 Clear of living quarters.
- Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.
- Transport/Additional information:
- DOT
- Remarks: Special marking with the symbol (fish and tree).
- ADR
- Excepted quantities (EQ) Code: E1
- Maximum net quantity per inner packaging: 30 ml
- Maximum net quantity per outer packaging: 1000 ml
- UN "Model Regulation": UN 2996 ORGANOCHLORINE PESTICIDE, LIQUID, TOXIC (ALLDOCHLOR (ISO)), 6.1, III, ENVIRONMENTALLY HAZARDOUS

15. REGULATORY INFORMATION

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- Sara
- Section 355 (extremely hazardous substances): Substance is not listed.
- Section 313 (Specific toxic chemical listings): Substance is not listed.
- TSCA (Toxic Substances Control Act): ACTIVE
- Hazardous Air Pollutants Substance is not listed.
- Proposition 65
- Chemicals known to cause cancer: Substance is not listed.
- Chemicals known to cause reproductive toxicity for females: Substance is not listed.
- Chemicals known to cause reproductive toxicity for males: Substance is not listed.
- Chemicals known to cause developmental toxicity: Substance is not listed.
- Carcinogenic categories
- EPA (Environmental Protection Agency) Substance is not listed.
- TLV (Threshold Limit Value established by ACGIH) Substance is not listed.
- NIOSH-Ca (National Institute for Occupational Safety and Health) Substance is not listed.
- Hazard pictograms
- GHS06 GHS07 GHS09
- Signal word Danger
- Hazard statements
- H301 Toxic if swallowed.
- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H411 Toxic to aquatic life with long lasting effects.
- Precautionary statements
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P301+P310 If swallowed: Immediately call a poison center/doctor.
- P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P321 Specific treatment (see on this label).
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16. OTHER INFORMATION

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. For lab use only!