



SAFETY DATA SHEET

ALCHELED

Issue date: 06.09.2018

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

Product identifiers

Product name: ALCHELED
Chemical name: 13121-70-5
CAS No.:

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

Identified uses: acaricide for agricultural use

Details of the supplier of the safety data sheet

Supplier: Almandine Corporation SA
 Gotthardstrasse 3
 6300 Zug
 Switzerland
 Tel: +44 20 8995 8391 (UK office)
 Fax: +44 20 8995 7639
 Email: almuk@almandine.com

Emergency telephone number

Tel: +44 20 8995 8391 (SDS support, 9.00-5.00 pm; Mon-Fri only, UK)

SECTION 2: HAZARDS IDENTIFICATION

Acute tox 4
Aq Acute 1
Aq Chronic 1

Pictogram(s):



Signal word:

Warning

Hazard statement(s):

H302: Harmful if swallowed or if inhaled
H400: Very toxic to aquatic life
H410: Very toxic to aquatic life with long lasting effects

Precautionary statement(s):

P264 Wash exposed skin thoroughly after handling.
P273 Avoid release to the environment.
P301+P312 IF SWALLOWED: call a POISON CENTER / doctor if you feel unwell.
P304+P340 IF INHALED: remove person to fresh air and keep comfortable for breathing.
P501: Dispose of contents/container in accordance with local and national regulations



SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	CAS Number	Concentration (g/L)	Signal Word	H Statements
Cyhexatin	13121-70-5	500	Danger	H302, H312, H332, H400, H410

See Sections 2 and 16 for H Statements in full

SECTION 4: FIRST AID MEASURES

If poisoning occurs, immediately contact a doctor or Poisons Information Centre and follow the advice given. Show this Safety Data Sheet to the doctor.

Inhalation:	If inhaled, remove to fresh air, keep warm and at rest. Administer oxygen or artificial respiration if needed. Seek medical attention.
Skin contact:	Avoid contact with skin. Carefully remove contaminated clothing and footwear. Wash affected areas with large amounts of water for at least 10 minutes. Seek medical advice.
Eye contact:	Rinse eyes with plenty of water keeping the eyelids open for at least 15 minutes. Get medical attention.
Ingestion:	DO NOT induce vomiting. Seek medical attention. Never give anything by mouth to an unconscious person. Seek medical attention.
Treatment:	No specific antidote. Treat symptomatically. Use salt subsntaces as purgative (sodium sulphate).
Symptoms:	Nausea, vomiting, stomach-ache, headache, convulsions

SECTION 5: FIRE FIGHTING MEASURES

Extinguishing media:	Water fog, fine water spray, foam, dry chemical, carbon dioxide. Do not use water jet.
Hazards from combustion products:	Combustion products are toxic and/or irritant.
Advice for fire fighters:	Fire-fighters should wear full protective gear, including self-contained breathing apparatus. Keep unnecessary people away. Use water spray to cool containers. Bund area with sand or earth to prevent contamination of drains or waterways. Dispose of contaminated material according to the provisions in Section 13.



SECTION 6: ACCIDENTAL RELEASE MEASURES

- Personal precautions:** Wear PPE as recommended in section 8. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Avoid contact with spilled material or contaminated surfaces. Keep people and animals away.
- Environmental precautions:** Prevent product from entering drains or water courses. Warn the local water authority if water-courses become contaminated.
- Clean-up methods:** Pick up and arrange disposal without creating aerosol. Contain spill and absorb with earth, sand, clay, or other absorbent material, collect and store in sealed drums for safe disposal. Decontaminate the area and equipment by washing areas with detergent and water. Keep in suitable, closed containers for disposal. Contaminated extinguishing water must be disposed of in accordance with official regulations.

SECTION 7: HANDLING AND STORAGE

- Handling:** Keep out of reach of children. Avoid breathing vapour or spray. For product in eyes, wash immediately with water. For product on skin, immediately wash area with soap and water. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water.
- Storage:** Store between 5-30°C in the closed original container, in a cool, dry, well-ventilated area, away from direct sunlight and sources of ignition.
- Incompatibility:** Strong oxidising agents.
- Flammability:** Not flammable under normal conditions of use. The product does not sustain combustion.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure limits: Cyhexatin 8 hr TWA 5 mg / m³

Time weighted average (TWA) is the average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week.

- Engineering controls:** Use only in well-ventilated areas. If necessary, use local exhaust ventilation to keep airborne concentration below exposure limits.
- Personal protective equipment:** Wear face shield or goggles conforming to EN166.
Wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) and a washable hat, heavy-duty shoes or boots (EN 373).
Wear elbow length nitrile or neoprene rubber gloves conforming to EN 374.



If working in a poorly ventilated area or if occupational exposure levels are likely to be exceeded, wear a respirator with filter for vapours. See standard EN 529

After each day's use, wash gloves, goggles or face shield, respirator if worn, and contaminated clothing.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

a) Appearance:	White to off-white visvous liquid
b) Odour:	characteristic
c) Odour threshold:	none set
d) pH:	8.5
e) Melting point/freezing point:	n/a
f) Boiling point/boiling range:	not determined
g) Flash–point:	Does not flash
h) Evaporation rate:	n/a
i) Flammability (solid/gas):	Not flammable
j) Upper/lower flammability or explosive limits:	n/a
k) Vapour pressure:	1.15×10^{-3} mPa (tech.)
l) Vapour density:	$2.0. \times 10^{-2}$ Pa m ³ mol ⁻¹ (tech.)
m) Relative density:	1.17 kg/L
n) Solubility:	1.0 mg/L (water,20°C tech.)
o) Partition coefficient:	Log P _{ow} 4.84 (tech.)
p) Auto-ignition temperature:	Not auto-flammable
q) Decomposition temperature:	not measured
r) Viscosity:	n/a
s) Explosive properties:	Not explosive
t) Oxidising properties:	Not an oxidiser

SECTION 10: STABILITY AND REACTIVITY

Reactivity Stable under normal conditions of use. Will not polymerise.

Chemical stability The product is stable if stored and handled as prescribed



/indicated.

Possibility of hazardous reactions	No hazardous reactions when stored and handled according to instructions.
Conditions to avoid	Strong acids, alkalis and UV light
Incompatible materials	None known
Hazardous decomposition Products:	Does not decompose at ambient temperature. Combustion or thermal decomposition will evolve toxic and irritant vapours.

SECTION 11: TOXICOLOGICAL INFORMATION

(based on tech)

Oral toxicity:	LD ₅₀ rat: 265 mg/kg (GHS Cat. 4)
Dermal toxicity:	LD ₅₀ rat: >2000-5000 mg/kg (GHS Cat. 5)
Skin sensitisation:	Not a skin sensitiser
WHO Toxicity classification:	II, moderately hazardous

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity (technical material)

Fish toxicity:	LC ₅₀ 96 h <i>Perciformes</i>	0.06 mg/L
<i>Daphnia</i> toxicity:	EC ₅₀ 48 h <i>Daphnia magna</i>	0.0002 mg/L
Algal toxicity:	EC ₅₀ Green algae 72 h	0.000018 mg/L
Other organisms:	Moderately toxic to bees Moderately toxic to birds	
Mobility in soil:	Moderately persistent and not mobile in soil	

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Product:	Dispose of waste product through an official waste contractor. Obtain advice from local waste regulation authority.
Contaminated packaging:	Triple- or pressure-rinse containers before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals on-site. Do not burn empty containers. Recycle, or return to supplier through local schemes if applicable. Disposal should be in accordance with local, state or national legislation.



SECTION 14: TRANSPORTATION INFORMATION

UN number:	3082		
UN Proper Shipping Name:	Environmentally hazardous substance, liquid, N.O.S (contains cyhexatin)		
Transport hazard class:	ADR/RID: 9	IMDG: 9	IATA: 9
Packaging group:	ADR/RID: III	IMDG: III	IATA: III
Environmental hazard:	ADR/RID: Yes	IMDG: Marine pollutant: Yes	IATA: Yes

SECTION 15: REGULATORY INFORMATION

No additional regulatory information required for this product

SECTION 16: OTHER INFORMATION

Additional relevant H Statements:

These risk phrases are for hazardous components in the product but are not at levels that require H statements. They provide additional information on risks.

No liability is accepted for any injury, loss, damage or cost arising directly or indirectly from the use of the product or from the use of information contained within the safety data sheet since the customer's handling of the product is necessarily beyond our control. The supplied data are based on current knowledge and experience. This safety data sheet is intended to describe our product in terms of safety requirements. The customer should determine by appropriate trials that the product is suitable for his intended use.

Sections 9, 11 and 12 based on available EU and own data
Cyhexatin –harmonized classification
Self-classification of mixture