



SAFETY DATA SHEET

BARBIE 720 SC

SDS/GHS/ISR/Ver 1.1

Issue date: 18.01.2023

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

Product identifiers

Product name: Barbie 720 SC
Substance name: Tetrachloroisophthalodinitrile
CAS No.: 1897-45-6

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

Identified uses: Fungicide 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

Formulation site: Hunan Nantian Industry & Commerce Co
Yijiawan, Xiangtan,
Hunan 411103,
P.R. China

Emergency telephone number

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

SECTION 2. HAZARDS IDENTIFICATION

Acute Inhal. 2
Eye dam. 1
Skin Sens. 1
Carc. 2
STOT SE 3
Aq. Acute 1
Aq. Chronic 1

Classification and Label Elements:



Pictogram(s):

Signal Word: Danger

Hazard statement(s)

H317: May cause an allergic skin reaction
H318: Causes serious eye damage
H330: Fatal if inhaled
H335: May cause respiratory irritation
H351: Suspected of causing cancer



H410: Very toxic to aquatic life with long lasting effects

Precautionary statement(s):

P260: Do not breathe fume/ gas/ mist/ vapours/ spray

P273: Avoid release to the environment

P280: Wear protective gloves/ protective clothing/ eye protection/ face protection

P304 + P340 + P310: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.

P305 + P351 + P338 + P310: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor

P403 + P233: Store in a well-ventilated place. Keep container tightly closed.

P501: Dispose of contents/container in accordance with local and national regulations

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Name	CAS No	Signal word	H Statement(s)
Chlorothalonil	1897-45-6	Danger	H330, H318, H317, H351, H335, H400, H410

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: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

Skin contact: Wash with plenty of water. IF SKIN irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing. Immediately call a POISON CENTER or doctor/physician.

Ingestion: If swallowed seek medical advice immediately and show the container, label or this Data sheet, if possible. Provided the person is conscious, wash out mouth with water. Do not induce vomiting.

Medical Advice: Observe the patient and treat symptomatically, no known specific antidote.

Symptoms of exposure: Short-term contact with skin can result in slight skin irritation. Reported health effects included sweating, nausea, vomiting, headache, stomach pain, dizziness, weakness, and seizures.

SECTION 5. FIRE FIGHTING MEASURES

Extinguishing media: Water spray. Keep unexposed containers cool with water spray. Water jet is not recommended.



Specific Hazards from the product:

Combustion products are toxic and/or irritant. May produce toxic gases: NO_x, CO_x, CN.

Advice for fire fighters:

Fire-fighters should wear full protective gear, including self-contained breathing apparatus. Use water spray to cool containers.

Bund area with sand or earth to prevent contamination of drains or waterways. Dispose of fire control water or other extinguishing agent and spillage safely.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Wear PPE as recommended in section 8. Avoid breathing, vapours, spray or gas. Ensure adequate ventilation. Avoid contact with spilled material or contaminated surfaces. Keep people and animals away and keep locked up.

Environmental precautions:

Prevent product from entering drains or water courses. Do not flush into water sources, drains or sewage systems. If product enters sewage or contaminates water sources, inform the relevant authorities.

Clean-up methods:

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 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:

Use PPE as outlined in section 8. Avoid contact with skin, eyes and clothing. May irritate skin. Avoid breathing vapour or spray. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water.

Storage:

Keep out of sight and reach of children Store in the closed original container, in a cool, dry, well-ventilated area, away from direct sunlight and sources of ignition. Keep away from food, drink and animal feeds. Avoid storing at freezing temperatures.

Incompatibility:

None known.

SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Occupational exposure limit: Chlorothalonil 0.1 mg/ m³ 8 hr TWA

Eye/face protection:

Face shields and safety glasses. Use eye protection conforming to EN 166 (EU).

Skin protection:

Handle with gloves which conform to standard EN 374 (e.g. nitrile rubber). Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Wear protective clothing.

Respiratory protection:

Where risk assessment show air-purifying respirators are appropriate use a full-face respiratory type P2 (EN 143) as a back-up to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator approved to NIOSH (US) or CEN (EU).



Precautions: Wash hands and exposed skin before meals and after work.
Wash all protective clothing thoroughly after use, especially the inside of gloves.
When using do not eat, drink or smoke.
Keep away from food, drink and animal feed stuffs.
Keep out of the sight and reach of children.

SECTION 9. PHYSICAL / CHEMICAL PROPERTIES

a) Appearance:	Viscous off-white liquid
b) Odour:	Slightly pungent
c) Odour threshold:	none set
d) pH:	5 – 8.5
e) Melting point/freezing point:	Not determined.
f) Boiling point/boiling range:	Decomposes before boiling
g) Flash-point:	Does not flash
h) Evaporation rate:	not measured
i) Flammability (solid/gas):	Not flammable
j) Upper/lower flammability or explosive limits:	none set
k) Vapour pressure:	0.002 mPa (tech)
l) Vapour density:	$2.31 \times 10^{-4} \text{ Pa m}^3 \text{ mol}^{-1}$ (tech)
m) Relative density:	1.30 – 1.34
n) Solubility:	3.78 mg/L (water, 20°C) (tech)
o) Partition coefficient:	Log P_{ow} 3.75 (tech)
p) Auto-ignition temperature:	not determined
q) Decomposition temperature:	230°C (tech)
r) Viscosity:	not relevant
s) Explosive properties:	Not explosive
t) Oxidising properties:	Not an oxidiser

SECTION 10. STABILITY AND REACTIVITY

Reactivity	Corrosion to metals: Corrosive effects to metal are not anticipated.
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	No specific conditions
Incompatible materials	Strong oxidizers, ultraviolet light
Hazardous decomposition products	No hazardous decomposition products if stored and handled as prescribed/indicated.

SECTION 11. TOXICOLOGICAL INFORMATION

Oral toxicity:	LD ₅₀ rat: >2000 – 5000 mg/kg (GHS cat 5) (tech)
Dermal toxicity:	LD ₅₀ rat: >2000 – 5000 mg/kg (GHS cat 5) (tech)
Inhalation toxicity:	LC ₅₀ 4h rat 0.36 mg/L (tech)



Skin irritation: may cause mild irritation
Eye irritation: Causes serious eye damage
Skin sensitisation: May cause an allergic skin reaction

Suspected of causing cancer.
Not mutagenic or teratogenic.
Chronic exposure damages the brain and the central nervous system.

SECTION 12. ECOLOGICAL INFORMATION

(based on technical material)

Fish toxicity: LC₅₀ 96 h rainbow trout 0.25 mg/L
Daphnia toxicity: EC₅₀ 48 h *Daphnia magna* 0.19 mg/L
Algal toxicity: EC₅₀ Green algae 72 h 0.07 mg/L
Other organisms: Very toxic to bees and non-target arthropods

SECTION 13. DISPOSAL CONSIDERATIONS

Do not contaminate ponds, waterways or ditches with chemical or used containers. Empty containers should be washed and discarded. Empty containers should not be used for other purposes. 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, N.O.S.
(contains chlorothalonil)
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: No

SECTION 15. REGULATORY INFORMATION

No additional regulatory information required for this product.

SECTION 16. OTHER INFORMATION

Additional relevant H statements:

There is no additional H statements associated with this substance.

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 treatment 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 its intended use.

Sections 9, 11 and 12 based on available EU and Almandine SA Corporation data



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Self-classification of mixture

SDS version: 1.1

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Changes to sections from previous version: Update to address in sec 1 and format of sec 16