

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

Product name : Captafol

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

According to Regulation (EC) No1272/2008
Carcinogenicity (Category 1B)
Skin sensitization (Category 1)

Acute aquatic toxicity (Category 1)
Chronic aquatic toxicity (Category 1)

According to European Directive 67/548/EEC as amended.

May cause cancer. May cause sensitization by skin contact. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Label elements

Pictogram



Signal word : Danger

Hazard statement(s)

H317 : May cause an allergic skin reaction.
H350 : May cause cancer.
H410 : Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P201 : Obtain special instructions before use.
P273 : Avoid release to the environment.
P280 : Wear protective gloves.
P308 + P313 : IF exposed or concerned: Get medical advice/attention.
P501 : Dispose of contents/container to an approved waste disposal plant.

Hazard symbol(s)

T : Toxic
N : Dangerous for the environment

R-phrase(s)

R45 : May cause cancer.
R43 : May cause sensitization by skin contact.
R50/53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrase(s)

S53 : Avoid exposure - obtain special instructions before use.
S45 : In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S60 : This material and its container must be disposed of as hazardous waste.
S61 : Avoid release to the environment. Refer to special instructions/ Safety data sheets.

Restricted to professional users.

Other hazards - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula : C5H3BCl2F5N
Molecular Weight : 253,8 g/mol

CAS-No.	EC-No.	Classification	Concentration
Captafol 2425-06-1	219-363-3	- Carc. 1B; Skin Sens. 1; Aquatic Acute 1; Aquatic Chronic 1; H317, H350, H410 T, N, Carc.Cat.2, R45 - R43 - R50/53	-

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation. Evacuate personnel to safe areas.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid exposure - obtain special instructions before use. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

Conditions for safe storage

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protective equipment

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Handle with gloves.

Eye protection

Face shield and safety glasses

Skin and body protection

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form : solid
Colour : yellow

Safety data

pH : no data available
Melting point : no data available
Boiling point : no data available
Flash point : > 100,00 °C
Ignition temperature : no data available
Lower explosion limit : no data available
Upper explosion limit : no data available
Water solubility : insoluble

10. STABILITY AND REACTIVITY

Chemical stability

Stable under recommended storage conditions.

Conditions to avoid

no data available

Materials to avoid

no data available

Hazardous decomposition products

no data available

11. TOXICOLOGICAL INFORMATION

Acute toxicity

LD50 Oral - rat - 2.500 mg/kg

LD50 Dermal - rabbit - 15.400 mg/kg

Skin corrosion/irritation

no data available

Serious eye damage/eye irritation

no data available

Respiratory or skin sensitization

May cause allergic skin reaction.

Germ cell mutagenicity

Genotoxicity in vitro - Hamster - Lungs
Cytogenetic analysis

Genotoxicity in vitro - Hamster - Lungs
Micronucleus test

Genotoxicity in vitro - Hamster - Lungs
Sister chromatid exchange

Genotoxicity in vitro - Human - lymphocyte
DNA inhibition

Genotoxicity in vitro - Human - Kidney
Micronucleus test

Genotoxicity in vivo - rat - Oral
Morphological transformation.

Genotoxicity in vivo - rat - Intraperitoneal
Dominant lethal test

Carcinogenicity

Carcinogenicity - mouse - Oral
Tumorigenic/Equivocal tumorigenic agent by RTECS criteria. Cardiac:Tumors. Gastrointestinal:Tumors.

Carcinogenicity - mouse - Oral
Tumorigenic/Carcinogenic by RTECS criteria. Gastrointestinal:Tumors. Liver:Tumors.

Carcinogenicity - rat - Oral
Tumorigenic/Carcinogenic by RTECS criteria. Kidney, Ureter, Bladder:Kidney tumors.

Possible human carcinogen

IARC: 2A - Group 2A: Probably carcinogenic to humans (Captafol)

Reproductive toxicity

Reproductive toxicity - rabbit - Oral

Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants).

Reproductive toxicity - rat - Oral

Effects on Newborn: Growth statistics (e.g., reduced weight gain).

Developmental Toxicity - Hamster - Oral

Effects on Embryo or Fetus: Fetal death. Specific Developmental Abnormalities: Musculoskeletal system.

Developmental Toxicity - Hamster - Oral

Specific Developmental Abnormalities: Central nervous system.

Developmental Toxicity - rat - Oral

Effects on Embryo or Fetus: Fetal death.

Specific target organ toxicity - single exposure

no data available

Specific target organ toxicity - repeated exposure

no data available

Aspiration hazard

no data available

Potential health effects

Inhalation : May be harmful if inhaled. May cause respiratory tract irritation.
Ingestion : May be harmful if swallowed.

Skin : May be harmful if absorbed through skin. May cause skin irritation.
Eyes : May cause eye irritation.

Additional Information

RTECS: GW4900000

12. ECOLOGICAL INFORMATION

Toxicity

Toxicity to fish : mortality LOEC - Cyprinus carpio (Carp) - 0,5 mg/l - 13,0 d
LC50 - Oncorhynchus mykiss (rainbow trout) - 0,02 - 0,06 mg/l - 96,0 h

Toxicity to daphnia and other aquatic invertebrates. : mortality NOEC - Cyprinus carpio (Carp) - 0,25 mg/l - 13,0 d
EC50 - Daphnia magna (Water flea) - < 0,001 mg/l - 48 h

Persistence and degradability

no data available

Bioaccumulative potential

no data available

Mobility in soil

no data available

PBT and vPvB assessment

no data available

Other adverse effects

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

13. DISPOSAL CONSIDERATIONS

Product

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

ADR/RID

UN-Number: 3077 Class: 9 Packing group: III
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Captafol)

IMDG

UN-Number: 3077 Class: 9 Packing group: III EMS-No: F-A, S-F
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Captafol)
Marine pollutant: No

IATA

UN-Number: 3077 Class: 9 Packing group: III
Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Captafol)

15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

16. OTHER INFORMATION

Text of H-code(s) and R-phrase(s) mentioned in Section 3

Aquatic Acute : Acute aquatic toxicity
Aquatic Chronic : Chronic aquatic toxicity
Carc. : Carcinogenicity
H317 : May cause an allergic skin reaction.
H350 : May cause cancer.
H410 : Very toxic to aquatic life with long lasting effects.
Skin Sens. : Skin sensitization
N : Dangerous for the environment
T : Toxic
R43 : May cause sensitization by skin contact.
R45 : May cause cancer.
R50/53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Further information

For R&D use only. Not for drug, household or other uses.

WARRANTY:

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. Lookchem shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

LookChem

LOOK FOR CHEMICALS

www.lookchem.com