

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

Product name : Chinomethionate

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

According to Regulation (EC) No 1272/2008

Reproductive toxicity (Category 2)

Specific target organ toxicity - repeated exposure (Category 2)

Eye irritation (Category 2)

Skin sensitization (Category 1)

Acute aquatic toxicity (Category 1)

Chronic aquatic toxicity (Category 1)

Acute toxicity, Inhalation (Category 4)

Acute toxicity, Dermal (Category 4)

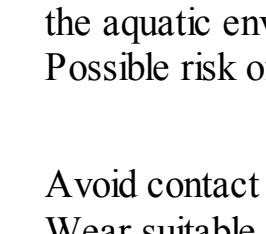
Acute toxicity, Oral (Category 4)

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

Possible risk of impaired fertility. Harmful by inhalation, in contact with skin and if swallowed. Harmful: danger of serious damage to health by prolonged exposure if swallowed. Irritating to eyes. 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

Warning

Hazard statement(s)

H319 Causes serious eye irritation.

H373

May cause damage to organs through prolonged or repeated exposure.

H302

Harmful if swallowed.

H312

Harmful in contact with skin.

H317

May cause an allergic skin reaction.

H332

Harmful if inhaled.

H410

Very toxic to aquatic life with long lasting effects.

H361f

Suspected of damaging fertility.

Precautionary statement(s)

P273 Avoid release to the environment.

P280

Wear protective gloves/ protective clothing.

P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P501

Dispose of contents/ container to an approved waste disposal plant.

Hazard symbol(s)

Harmful

Xn

Dangerous for the environment

R-phrase(s)

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

R36

Irritating to eyes.

R43

May cause sensitization by skin contact.

R48/22

Harmful: danger of serious damage to health by prolonged exposure if swallowed.

R50/53

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

R62

Possible risk of impaired fertility.

S-phrase(s)

S24 Avoid contact with skin.

S37

Wear suitable gloves.

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.

Other hazards - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula : C10H6N2OS2
Molecular Weight : 234,3 g/mol

CAS-No.	EC-No.	Classification	Concentration
2439-01-2	219-455-3	-	-
Quinome thionate			
		Repr. 2; STOT RE 2; Eye Irrit. 2; Skin Sens. 1; Aquatic Acute 1; Aquatic Chronic 1; Acute Tox. 4; H319, H373, H302, H312, H317, H332, H410, H361f	Xn, N, Repr. Cat.3, R20/21/22 - R36 - R43 - R48/22 - R50/53 - R62

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 vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

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. Sweep up and shovel. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes. 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

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

Handle with gloves. 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. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

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

Eye protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form solid

Safety data

pH no data available

Melting point no data available

Boiling point no data available

Flash point no data available

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

Strong oxidizing agents

Hazardous decomposition products

Under fire conditions. - Carbon oxides, Sulphur oxides, nitrogen oxides (NOx)

11. TOXICOLOGICAL INFORMATION

Acute toxicity

LD50 Oral - rat - 1.100 mg/kg

LC50 Inhalation - rat - 4 h - 3.000 mg/m³

LD50 Dermal - rabbit - > 2.000 mg/kg

No data available

Specific target organ toxicity - single exposure

no data available

Specific target organ toxicity - repeated exposure

no data available

No data available

Aspiration hazard

no data available

Potential health effects

Inhalation Harmful if inhaled. May cause respiratory tract irritation.

Skin Harmful if swallowed.

Eyes Causes serious eye irritation. May cause skin irritation.

Additional Information

RT/EC: FGI 400000

RT/EC: FGI 400000

12. ECOLOGICAL INFORMATION

Toxicity

Toxicity to fish L₅₀ - Lepomis macrochirus (Bluegill) - 0,07 mg/l - 96 h

Toxicity to daphnia EC₅₀ - Daphnia magna (Water flea) - 0,12 mg/l - 48 h

Toxicity to other aquatic invertebrates EC₅₀ - Desmodesmus subspicatus (green algae) - 0,007 mg/l - 96 h

No data available

Biodegradability

no data available

Mobility in soil

no data available

PBT and vPvB assessment