

SAFETY DATA SHEET (SDS)

TITLE: **CHLOROTHALONIL 375 + CYMOXANIL 50 SC**

1.0 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY / UNDERTAKING

1.1 Product Identifier

Product Name : CIBA CYNIL 425 SC
 Common Name : Chlorothalonil 37.5% + Cymoxanil 5% (SC)
 CAS No. : 1897-45-6/57966-95-7
 Index No. : N/A

1.2 Relevant identified uses of the substance: Fungicide

1.3 Details of the Manufacturer / Supplier of the safety data sheet:

Supplier CIBA AGRIPHARMA SARL
 78 Boulevard Haussmann
 75008 Paris , France
 Tel Tel: +33 6 51 39 90 00
 E-mail administration@ciba- agripharma.com
 Webpage www. ciba- agripharma.com

1.4 Emergency Phone Number (24 hours)

+33 6 51 39 90 00

2.0 HAZARDS IDENTIFICATION

2.1 Classification of the mixture:

The substance is classified as following according to REGULATION (EC) No 1272/2008 (CLP).

2.1.1 According to 1272/2008/EU REGULATION

Pictograms / Signal word code (s)



Warning

H317

MAY CAUSE AN ALLERGIC SKIN REACTION.
 CAUSES SERIOUS EYE IRRITATION.

H319	HARMFUL IF INHALED.
H332	MAY CAUSE RESPIRATORY IRRITATION. SUSPECTED OF CAUSING CANCER.
H335	SUSPECTED OF DAMAGING THE UNBORN CHILD.
H351	MAY CAUSE DAMAGE TO ORGANS THROUGH PROLONGED OR
H361	REPEATED EXPOSURE (BLOOD, THYMUS).
H373	VERY TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS.
H410	

2.1.2 Other hazards

Specific concentration Limits and M factors (for active substance): N/A

3.0 COMPOSITION/INFORMATION ON INGREDIENTS

Substance Name / CAS No	% w/w	Hazard Statements (1272/2008/EC)
cymoxanil / 57966-95-7	4.2	H302, H317, H410
chlorothalonil / 1897-45-6/	31.5	H330, H351, H318, H317, H335, H400, H410

4.0 FIRST AID MEASURES

4.1.1 Description of first aid measures

4.1.1.1 General information

Have the product container, label or Material Safety Data Sheet with you when calling the emergency number, a poison control center or physician, or going for treatment.

4.1.1.2 In case of inhalation

Remove person to fresh air. If signs/symptoms continue, get medical attention. Artificial respiration and/or oxygen may be necessary. Call a poison control center or doctor for treatment advice.

4.1.1.3 In case of skin contact

Take off all contaminated clothing immediately. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

4.1.1.4 In case of eyes contact

Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

4.1.1.5 In case of ingestion

Call a poison control center or doctor for treatment advice. Have person sip a glass of water if able to swallow. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Do not give anything by mouth to an unconscious person.

4.1.2 Note to physician

Treat symptomatically. Treatment based on judgment of the physician in response to reactions of the patient.

4.1.3 Most important symptoms and effects, both acute and delayed :

There is no specific antidote available. Treat symptomatically.

5.0 FIRE – FIGHTING MEASURE

5.1 Extinguishing media

Suitable extinguishing media : Water fog or fine spray, carbon dioxide, dry chemical, or foam. Do not use direct water stream. May spread fire.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products : Combustion or thermal combustion will evolve toxic and irritant vapors

5.3 Advice for fire-fighters

Keep people away. Isolate fire area and deny unnecessary entry. Consider feasibility of a controlled burn to minimize environmental damage. Foam fire extinguishing system is preferred because uncontrolled water can spread possible contamination. Hand held carbon dioxide or dry chemical extinguishers may be used for small fires. Burning liquids may be moved by flushing with water to protect personnel and minimize property damage. Water fog, applied gently may be used as a blanket for fire extinguishment. Do not use direct water stream. May spread fire. Fight fire from protected location or safe distance. Consider use of unmanned hose holder or monitor nozzles. Use water spray to cool fire exposed containers and fire affected zone until fire is out and danger of re-ignition has passed. Immediately withdraw all personnel from area in case of rising sound from venting safety device or discoloration of the container. Move container from fire area if this is possible without hazard. Contain firewater run-off if possible. Fire water run-off, if not contained may cause environmental damage.

5.4 Fire and Explosion Hazards:

Fire may produce irritating or poisonous vapours mists or other products of combustion. Fire fighters and others that may be exposed should wear full protective clothing and self-contained breathing apparatus.

6.0 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 Personal precautions

Do not inhale dust. Ventilate area of spill or leak, especially confined areas. Avoid contact with skin and eyes.

6.2 Environmental precautions

Do not discharge into drains or rivers. Do not allow to enter soil, waterways or waste water canal. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water. Apply this product as specified on the label. When the product contaminates public waters, inform appropriate authorities immediately in accordance with local regulations

6.3 Methods and material for containment and cleaning up

Collect & place in container for disposal according to local/ national regulations.

6.4 Other information

N/A

6.5 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 information on disposal.

6.6 Additional information

N/A

7.0 HANDLING AND STORAGE

7.1 Precautions for safe handling

7.1.1 Protective measures

This material is capable of forming flammable dust clouds in air, which, if ignited, can produce a dust cloud explosion. Flames, hot surfaces, mechanical sparks and electrostatic discharges can serve as ignition sources for this material. Electrical equipment should be compatible with the flammability characteristics of this material. The flammability characteristics will be made worse if the material contains traces of flammable solvents or is handled in the presence of flammable solvents. Avoid contact with skin and eyes. When using do not eat, drink or smoke.

7.2 Advice on general occupational hygiene

Avoid contact with eyes, skin or clothing. When using, do not eat, drink, or smoke. Wash hands and exposed skin before meals and afterwork. Wash out container thoroughly and dispose of safely.

7.3 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions : Store in a closed, original container in a dry, cool covered warehouse in original, well-labelled containers. Keep containers tightly closed. Store away from food, feedstuffs, fertilisers, seed and agricultural chemicals. Keep away from children and animals. Keep away from heat & sources of ignition. Keep away from combustible material. Keep in an area equipped with sprinklers. No smoking. Local regulations should be complied with.

Further information on storage conditions : N/A

8.0 EXPOSURE CONTROL/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational exposure limits

No occupational exposures limits have been established.

8.1.2 Additional exposure limits under the conditions of use: N/A

8.2 Exposure controls

8.2.1 Appropriate engineering controls

It is essential to provide adequate ventilation. Ensure that control systems are properly designed and maintained. Comply with occupational safety, environmental, fire and other applicable regulations. If engineering controls and work practices are not effective in controlling exposure to this material, then wear suitable personal protective equipment including approved respiratory protection.

8.2.2 Personal protection equipment

An approved respirator suitable for protection from dusts and mists of pesticides is required. Limitations of respirator use specified by the approving agency and the manufacturer must be observed.

8.2.3 Eye / Face protection

The use of safety goggles is recommended. Emergency eyewash: Where there is any possibility that an employee's eyes may be exposed to this substance, the employer should provide an eye wash fountain or appropriate alternative within the immediate work area for emergency use.

8.2.4 Skin Protection

Employee must wear appropriate protective (impervious) clothing and equipment to prevent skin contact with the substance. Employee must wear appropriate synthetic protective gloves to prevent contact with this substance.

8.2.5 Respiratory protection

Avoid breathing dust. Where airborne exposure is likely, use NIOSH approved respiratory protection equipment appropriate to the material and/or its components. Full facepiece equipment is recommended and, if used, replaces need for face shield and/or chemical goggles. If exposures cannot be kept at a minimum with engineering controls, consult respirator manufacturer to determine appropriate type equipment for given application. Observe respirator use limitations specified by NIOSH or the manufacturer. For emergency and other conditions where there may be a potential for significant exposure, use an approved full-face positive-pressure, self-contained breathing apparatus or positive-pressure airline with auxiliary self-contained air supply.

8.2.6 Other information

Follow all label instructions. Train employees in safe use of the product. Follow manufacturer's instructions for cleaning/maintaining personal protection equipment. Keep and wash personal protection equipment separately from other laundry.

9.0 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	: liquid
Odor	: weak
Colour	: whitish
Flash point (°C)	: N/A
pH value (10 % in water)	: 6-10
Density	: 0.5 – 0.7 g/ml
Oxidizing properties	: N/A
Explosive properties	: N/A
Auto-ignition temperature	: N/A
Decomposition temperature	: N/A

9.2 Other information

N/A

10.0 STABILITY AND RELIABILITY

10.1 Reactivity

No information available

10.2 Chemical stability

Stable under normal storage conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions known

10.4 Conditions to avoid

Avoid temperatures above 70°C. Product can decompose at elevated temperatures. Generation of gas during decomposition can cause pressure in closed systems.

10.5 Incompatible materials

Incompatible with oxidizing materials.

10.6 Hazardous decomposition products

The substance decomposes on burning, and producing toxic and corrosive fumes including toxic fumes.

10.7 Hazard Polymerization

Will not occur.

11.0 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

- Inhalation : LC50 (rat) >2.0 mg/l of air over 4 hours
- Dermal : LD50 (rat) > 5000 mg/kg
- Oral : LD50 (rat) > 2000 mg/kg

Skin corrosion/Irritation : Not irritant to skin of rabbits

Eye damage/irritation : Non irritating

Respiratory or skin sensitization : N/A

Repeated exposure : N/A

Other information

Germ cell mutagenicity : N/A

Carcinogenicity : N/A

Reproductive toxicity : N/A

STOT- single exposure : N/A

STOT- repeated exposure : N/A

Aspiration hazard : N/A

12.0 ECOLOGICAL INFORMATION

12.1 Toxicity

12.1.1 Aquatic Toxicity

Toxicity to fish: LC50 *Oncorhynchus mykiss* (rainbow trout), 3.1 mg/l , 96 h. Toxicity to aquatic invertebrates: EC50 *Daphnia magna* (Water flea), 0.14 mg/l , 48 h. Toxicity to aquatic plants: EbC50, *Desmodesmus subspicatus* (green algae), 0.6 mg/l, 72 h. ErC50 *Desmodesmus subspicatus* (green algae), 1.6 mg/l ,72.

12.1.2 Avian Toxicity

Practically nontoxic to birds and bees, but highly toxic to aquatic invertebrates and fish

12.2 Persistence and degradability

Cyprodinil is not persistent in water. Fludioxonil is stable in water. Both of them are not persistent in soil and do not bioaccumulate.

13.0 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

See 13.2.

13.2 Product / Packaging disposal

13.2.1 Product waste disposal

Prevent dispersion. Remove waste product to a suitable incinerator. According to national or local legislation.
Waste of residues: Keep waste separate. Remove as chemical waste, according to national or local legislation.

13.2.2 Packing waste disposal

Remove as chemical waste, according to national or local legislation.

14.0 TRANSPORT INFORMATION

UN-Number (ADR, IMDG, IATA) 3082

Proper shipping name(ADR, IMDG, IATA)

3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (chlorothalonil (ISO))

3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (cymoxanil (ISO))

Hazard class (ADRIMDG, IATA):

Class 9 Miscellaneous dangerous substances and articles. Label 9+P. Packing group III

Marine pollutant: Yes

Special marking (ADR): Symbol (fish and tree)

Special precautions (user) Warning: Miscellaneous dangerous substances and articles.

Kemler Number: 90

EMS Number: F-A,S-F

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable.

ADR Transport/Additional information: Tunnel restriction code: D/E

15.0 REGULATORY INFORMATION

15.1 Hazard and Precautionary statements in accordance with the regulation 1272/2008/EC

Pictograms and Signal Word Code(s) See section 2.1

Hazard Statement Code (s) See section 2.1

16.0 OTHER INFORMATION

The information contained herein relates only to the specified material identified. CIBA AGRIPHARMA, believes that such information is accurate and reliable as of the data of this material safety data sheet, but no representation, guarantee or warranty, expressed or implied, is made as to the accuracy, reliability, or completeness of the information. CIBA AGRIPHARMA urges persons receiving this information to make their own determination as to the information's suitability and completeness for their particular application.

This material safety data sheet adopts the provisions of the European Commission Directive 2001/58/EC and Regulations 1272/2008 (CLP) and 453/2010 (REACH).