



SAFETY DATA SHEET

BALEAR

1. Identification of the substance/preparation and of the company/undertaking

Chemical product name : Chlorothalonil 500 g/l
Formulation type : SC
Product Code : CA701336
CAS No. : Mixture.
Product Use : Agricultural industry.: Fungicide.
Manufacturer : CHIMAC-AGRI PHAR SA
26, rue de Renory
B 4102 Ougrée
Tel: +32(0)4 385.97.11
Fax: +32(0)4 385.97.49
Distributor : ADRIA NEW ZEALAND LTD
PO BOX 535 KUMEU
AUCKLAND
Tel: 09-412-9817
Fax: 09-412-9807
Emergency telephone number : NATIONAL POISONS CENTRE. PH: 0800 POISON (0800 764 766)

2. Composition / information on ingredients

Substance/Preparation : Preparation

Information on hazardous ingredients*

Chemical Name	CAS No.	%	EC Number	Symbol	R-Phrases
1) Solvent.		0-10	Not available.	Xn	R22
2) Chlorothalonil	1897-45-6	30-40	217-588-1	Xn, N	R40, R50

3. Hazards identification

Physical/Chemical Hazards : Not applicable.
Human health hazards : Possible risks of irreversible effects.
Environmental Hazards : Very toxic to aquatic organisms.

4. First-aid measures

First-Aid measures

Inhalation : If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion : Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

Skin Contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

Eye Contact : Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.

Effects and symptoms



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Inhalation	: Hazardous in case of inhalation (lung irritant).
Skin Contact	: Hazardous in case of skin contact (irritant, sensitizer). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.
Eye Contact	: Hazardous in case of eye contact (irritant).
Aggravating conditions	: Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

5. Fire-fighting measures

Extinguishing Media

Suitable	: SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.
Hazardous thermal (de)composition products	: carbon oxides (CO, CO ₂) nitrogen oxides (NO, NO ₂ ...) halogenated compounds.
Special fire-fighting procedures	: Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.
Protection of fire-fighters	: Be sure to use an approved/certified respirator or equivalent.

6. Accidental release measures

Personal precautions	: Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.
Environmental Precautions and Clean-up Methods	: Absorb with an inert material and put the spilled material in an appropriate waste disposal. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

7. Handling and storage

Handling	: Keep locked up. Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapor/spray. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents.
Storage	: Keep container tightly closed. Keep container in a cool, well-ventilated area. Do not store below 0°C (32°F).
<u>Packaging materials</u>	
Recommended use	: Use original container.

8. Exposure controls/personal protection

Engineering measures	: Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.
Hygiene measures	: Wash hands after handling compounds and before eating, smoking, using lavatory, and at the end of day.
Occupational Exposure Limits	: Not available.
Personal protective equipment	



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- Respiratory system** : Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.
- Skin and body** : Lab coat.
- Hands** : Gloves.
- Eyes** : Splash goggles.

9. Physical and chemical properties

- Physical state** : Liquid.
- Color** : White.
- Odor** : Not available.
- Density** : 1.24 g/cm³ at 20°C (68°F)
- Solubility** : Partially soluble in cold water, acetone.
- pH** : 7.5
- Fire Hazards in Presence of Various Substances** : Not considered to be flammable.
- Viscosity** : Dynamic: 830 cP

10. Stability and reactivity

- Stability** : The product is stable.
- Materials to avoid** : Reactive with oxidizing agents.
- Hazardous Decomposition Products** : carbon oxides (CO, CO₂) nitrogen oxides (NO, NO₂...) halogenated compounds.

11. Toxicological information

Local effects

- Skin irritation** : Hazardous in case of skin contact (irritant).
- Eye irritation** : Hazardous in case of eye contact (irritant).
- Sensitization** : Hazardous in case of skin contact (sensitizer).

- Acute toxicity** : Acute oral toxicity (LD₅₀): >2000 mg/kg [Rat]. (Solvent).
Acute dermal toxicity (LD₅₀): >2000 mg/kg [Rat]. (Solvent).

- Chronic toxicity** : Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

Specific effects

- Carcinogenic Effects** : Classified 3(b) (Possible for human.) by European Union [Chlorothalonil].

12. Ecological information

- Ecotoxicity** : - **Chlorothalonil**:
0.049 mg/l, 96 hours [Fish (Trout)].
0.07 mg/l, 48 hours [Daphnia].
Very toxic to aquatic organisms.
- Environmental Hazards** : Very toxic to aquatic organisms.

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13. Disposal considerations

Methods of disposal ; Waste of residues ; Contaminated packaging : Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Waste Classification : Not applicable.

14. Transport information

International transport regulations

UN number : 3082

Land - Road/Railway

Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.

ADR/RID Class : Class 9: Miscellaneous substances.

Packing Group : III

Hazard Identification Number : 90

ADR/RID label :



Sea

Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.

IMDG Class : Class 9: Miscellaneous substances.
Marine pollutant

IMDG Page Number : 9028

Packing Group : III

IMDG label :



Marine Pollutant : IMDG Class: Marine Pollutant. (Pollutant.)

Air

Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.

UN/ID Number : 3082

IATA-DGR Class : Class 9: Miscellaneous substances.

IATA label :



Inland waterways

Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.

ADNR Classification : Class 9: Miscellaneous substances.

UN/NA (Europe) ADNR : 3082

Packing Group : III

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ADNR label

:

**15. Regulatory information**EU Regulations

Hazard symbol(s)

:



Classification

: Harmful, Dangerous for the environment

Risk Phrases

: R40- Possible risks of irreversible effects.
R50- Very toxic to aquatic organisms.

Safety Phrases

: S2- Keep out of the reach of children.
S36- Wear suitable protective clothing.
S56- Dispose of this material and its container at hazardous or special waste collection point.

Contains

: - Chlorothalonil

Product Use

: Classification and labeling have been performed according to EU directives 67/548/EEC, 88/379/EEC including amendments and the intended use.
- Consumer applications.**16. Other information**HISTORY

Date of printing

: 29/03/2001

Date of issue

: 29/03/2001.

Date of Previous Issue

: No Previous Validation

Version

: 1

Prepared by

: CHIMAC-AGRIPHAR

Notice to Reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Version

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