

**Material Safety Data Sheet****1. PRODUCT AND COMPANY****1.1 Product identifier**

Product: DOBOL MICROCYP
(CYPER 90 CS)

1.2 Identified uses

Use : Biocide insecticide concentrate (PT18)
Capsule suspension (CS)
For professional and industrial use only

1.3 Supplier's details

Manufacturing company: **Kwizda France**
30 avenue de l'Amiral Lemonnier
78160 Marly le Roi – France
Tel: +33 1.39.16.09.69
Fax : +33 1.39.16.47.07

1.4 Emergency call

Anti-poison center from Paris : + 00 33 (0)1 40 05 48 48
ORFILA (INRS + 00 33 (0)1 45 42 59 59

2. HAZARDS IDENTIFICATION**2.1 Classification of the mixture****Classification according to Regulation (EC) No 1272/2008**

Eye Dmg. 1: H318 Causes serious eye damage
Aquatic Acute tox 1: H400 Very toxic to aquatic life
Aquatic chronic tox 1: H410 Very toxic to aquatic life with long lasting effects
EUH208 : contains 1,2-Benzisothiazolin-3-one. May produce an allergic reaction.

2.2 Label elements

Dangerous components :

- Cypermethrin
- 1,2-Benzisothiazolin-3-one
- alkylpolyglucoside

Classification according to Regulation (EC) No 1272/2008

Signal word: **Danger**

H318 Causes serious eye damage

H410 Very toxic to aquatic life with long lasting effects
 EUH208 contains 1,2-Benzisothiazolin-3-one. May produce an allergic reaction.

Precautionary statement:

P280 Wear protective goggles
 P273 Avoid release to the environment
 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 or doctor/physician.
 P391 Collect spillage.
 P501 Dispose of contents and container to a waste disposal center

2.3 Other hazards

Results of PBT and vPvB assessment : No data available

3. COMPOSITION / INFORMATION ON COMPONENTS

Chemical characterization: mixture

Description: capsule suspension based on the active ingredient cypermethrin

Hazardous ingredients

| Name | N°CAS | Concentration | CLP Classification 1272/2008 |
|-----------------------------------|------------|---------------|------------------------------|
| Active ingredient(s) | | | |
| <i>Cypermethrin</i> | 52315-07-8 | 90 g/kg | H302 H332 H335 H400 H410 |
| Other components | | | |
| <i>Alkylpolyglucoside</i> | 68515-73-1 | 2 – 3% (w/w) | H318 |
| <i>Sodium hydroxide</i> | 1310-73-2 | 0 – 1% (w/w) | H314 |
| <i>1,2-Benzisothiazolin-3-one</i> | 2634-33-5 | <1% (w/w) | H302 H315 H318 H317 H400 |

For the full text of the R-phrases mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

In case of unconsciousness place patient stably in side position for transportation. Symptoms of poisoning may even occur after several hours; therefore if the affected person feels unwell medical observation is indicated.

After skin contact

Wash the skin with water and soap, rinse abundantly. In case of rash or redness, seek medical advice.

After eye contact

Rinse immediately with plenty of water for at least 15 minutes, keep eyelids open. Remove contact lenses. Urgently contact ophthalmologist.

After inhalation

Transport the victim outside to fresh air. Keep the victim at rest and warm. If the victim feel unwell, contact a doctor or a poison center.

After swallowing

Rinse out mouth with plenty of water. Seek medical advice immediately and show packing or label. Do not induce vomiting without medical advice. If case of swallowing by a pet, seek a veterinary quickly.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation : headache, nausea, dizziness, cough, burning sensation, breathing difficulties

Skin : redness, irritation, tingling

Eye : redness, pain

Ingestion : abdominal pain, nausea, convulsions, vomiting,

4.3 Indication of any immediate medical attention and special treatment needed

Symptomatic treatment

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

CO2, dry chemical powder, foam or water spray.

5.2 Special hazards arising from the substance or mixture

No particular danger.

5.3 Advice for firefighters

Wear self-contained respiratory equipment and full protective suit. Cool down the container if doable with water and if there is risk of leakage into water or drainage system.

Other recommendations

For safety reasons unsuitable extinguishing agents: water spray/water with full jet if you cannot contain runoff to prevent entry into water or drainage systems.

In the case of fire wear self-contained respiratory equipment and full protective suit. Contain runoff to prevent entry into water or drainage systems.

6. ACCIDENTAL RELEASE MEASURE

6.1 Personal precautions, protective equipment and emergency procedure :

Keep unprotected persons away.

Please notice instructions for person-related safety precautions and wear protective equipment (see 8.)

6.2 Environmental precautions

Do not allow to enter sewers/surface or ground water. If runoff occurs into sewers/drainage/surface water, contact the authorities.

6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomite, acid or universal binders, sawdust).

Shovel the solid product and place into lockable, labelled salvage container for disposal according to the regulations.

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 disposal information.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Comply with instructions for use and with good manipulation practice of the chemical industry.
When using the product do not eat, drink or smoke.
Wash hands before break and at the end of work.
Wear appropriate protective glove and safety goggles.
Avoid any contact with skin, eyes and clothes.

Technical measures

Manipulate at ambient temperature.

Specific precautions

Wash all exposed skin with soap at the end of work.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures

Store in tightly closed containers in a cool, well ventilated and dry place. Do not store food, beverages and animal feeding stuffs in the storage area.
Only store in the original packaging. Do not re-use the empty packaging. Sensitive to frost.
Protect from direct sunrays

Temperature

Ambient

7.3 Specific end use(s)

Use only according to instructions

8. EXPOSURE CONTROL / PERSONNAL PROTECTION

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. Based on actual legally binding lists

8.2 Exposure control

General protective and hygienic measures:

Do not eat, drink or smoke at workplace and keep it tidy.
The usual precautionary measures are to be adhered to when handling chemicals

Respiratory protection:



No protection required in a normal use case. In case of use in an unwell ventilated area/lack of ventilation or aspiration, use a protective mask. (norm EN149 :2009 / norm EN137)

Protection of hands:



Use protective gloves resistant to chemicals (norm EN 374) for exemple NBR type.
Dispose of when contaminated inside, when perforated or when contamination outside cannot be removed.

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:



Safety splash goggles mandatory (norm En 166)

Body protection: Protective work clothing adapted to the use of chemicals

Limitation and supervision of exposure into the environment

Do not allow to enter sewers/ surface or ground water.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

| | |
|-------------------------|---------------------|
| Appearance: | liquid |
| Color | white |
| Odor | slightly aromatic |
| pH diluted | 4 – 8 (1% solution) |
| Flash point: | > 100°C |
| Relative density: | 1,03 -1,06 g/ml |
| Solubility: | soluble in water |
| Viscosity: | 300 - 800 mPas |
| Wet sieve residue 75 µm | < 1% |
| Particle size d 0,50 µm | 6 – 14 µm |

9.2 Other informations

No further relevant information available.

10. STABILITY AND REACTIVITY

10.1 Reactivity

Stable under usual conditions

10.2 Chemical stability

Stable under usual conditions

10.3 Possibility of hazardous reaction

No hazardous reactions known if used according to specifications

10.4 Conditions to avoid

Extreme temperatures.

10.5 Incompatible materials

Strong bases, acids and oxidizing agents.

10.6 Hazardous decomposition products

None under normal conditions of storage and use

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

All data refer to the active ingredient

**Active ingredient cypermethrin 40/60 acute toxicity:
LD/LC50 values relevant for classification:**

| | |
|--------------------------|-------------|
| Oral LD50 (rat) | 500 mg/kg |
| Dermal LD50 (rat) | >2000 mg/kg |
| Inhalation LC50/4h (rat) | 3,28 mg/l |

Primary irritant effect:

on the skin: not classified

on the eye: not classified

Sensitization: not classified

Mutagenicity : not classified

Carcinogenicity : not classified

Reprotoxicity : not classified

Specific organ toxicity (single exposure) : can irritation breath apparatus

Specific organ toxicity (repeated exposure) : not classified

Aspiration hazard : not classified

Additional toxicological information:

NOAEL (chronic, oral, male, 2 years) : 5mg/kg/bw

12. ECOLOGICAL INFORMATION

12.1 Toxicity

All data refer to the active ingredient

Ecotoxicological effects of the active ingredient cypermethrin 40/60:

Fish toxicity:

CL50 0,0028 mg/l (96h; Salmo gairdneri)

Crustacean toxicity:

Daphnea CL50 0,0003 mg/l (48h; Daphnia magna)

Algae toxicity:

ErC50 (algae) >0,1 mg/l (96h; Selenastrum capricornutum)

Additional informations:**NOEC chronic fish:** 0,00003 mg/l (34d Pimephales promelas)**NOEC chronic crustacean:** 0,00004 mg/l (Daphnia magna)

Do not allow product to reach ground water, water course or sewage system

12.2 persistence and degradability

Not readily biodegradable

12.3 Bioaccumulative potential

BCF fish : 1204 mg/l (salmo gairdneri)

Log Pow : 5,3 – 5,6 (25°C)

12.4 Mobility in soil

No further data available

12.5 Results of PBT and vPvB assessment

No further data available

12.6 Other adverse effects

No further data available

13. DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods**

Do not dispose waste or remains together with domestic waste, do not empty into sink or toilet, hand over to hazardous waste disposers. Do not allow product/contaminated cleaning water to reach ground water, water course or sewage system. Unused product must be eliminated as hazardous wastes under their owner responsibility.

13.2 Disposal of soiled packaging

Do not reuse empty contaminated packaging for other purposes; dispose according to official regulations. Packaging must be eliminated as hazardous wastes under their owner responsibility.

14. TRANSPORT INFORMATION**14.1 UN number**

UN3082

14.2 UN proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (cypermethrin) , 9, III, (E)

14.3 Transport hazard class

9

14.4 packing group

III

14.5 Environmental hazards

Dangerous for environment. Marine pollutant : yes

14.6 Special precaution for user

Transport by road (ADR)

Classification code : M6

Special provisions : 274, 335, 601

Limited quantities : 5 L

Excepted quantities : E1

Packing instructions : P001, IBC03, LP01, R001

Special packing instructions : PP1

Mixed packing instructions : MP19

Special instruction for portable tanks and bulk containers : TP1, TP29

Instruction for portable tanks and bulk containers : T4

Kemler code : 90

Tunnels restrictions : E

14.7 transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

Other informations :

I.M.D.G. (by sea)

Special instructions : 274, 335

Limited quantities : 5 L

Excepted quantities : E1

Packing instructions : P001, LP01

Special packing instructions : PP1

Tank instructions : T4

Special instructions for tanks : TP2, TP29

FS n° (fire) : F-A

FS n (leakage) : S-F

Loading category : A

15. Regulatory information

15.1 Safety, health and environmental regulations/legislation for the mixture

This formulation is beyond the scope of Regulation (EC) No 2037/2000 of European Parliament and the Council of 29 June 2000 on substances that deplete the ozone layer.

This formulation is beyond the scope of Regulation (EC) No 850/2004 of the European Parliament and the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC.

This formulation is beyond the scope of Regulation (EC) No 649/2012 of the European Parliament and the Council of 17 June 2008 concerning the export and import of dangerous chemicals. This formulation is not subject to special provisions for the protection of human health or the environment at Community level.
No restrictions according to REACH annex XVII. Cypermethrin is not on the candidate list of the REACH regulation nor listed on annex XIV.

15.2 Chemical safety assessment

No chemical safety assessment available

16. OTHER INFORMATIONS

R-phrases and H-phrases paragraph 3

H302 Harmful if swallowed
H315 Causes skin irritation
H317 May cause an allergic skin reaction
H318 Causes serious eye damage
H332 Harmful if inhaled
H335 May cause respiratory irritation
H400 Very toxic to aquatic life
H410 Very toxic to aquatic life with long lasting effects

Abbreviations and acronyms:

CAS: Chemical Abstracts Service (division of the American Chemical Society)

EINECS: European Inventory of Existing Commercial Chemical Substances

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

CLP: REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

Updates:

This document differs from the previous version in the following areas:

Also refer to technical instructions for use.

The data contained in this material safety data sheet are based on the current level of scientific and technical knowledge in this domain and at the date of the last update and are given bona fide.

These data cannot be used to confirm the product properties and do not constitute a legal or a contractual covenant. These data shall not be used as an order basis.

This sheet completes the technical data but do not replace them.

The user bears full responsibility for knowing and applying the legal texts, the handling procedures and the safety measures linked to the product use.

The entirety of the regulatory and legal prescriptions mentioned can only be used as a support to help the user fulfilling his duty in the use of the aforementioned product.

It is advised to consult the national or international measures that can apply because the measures contained in this sheet should not be considered to be exhaustive.

This document does not exempt the user to make sure that others obligations devolve upon himself in particular regarding to product's possession, use or specification and for which he is fully responsible.