

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

1.1 Product Identifier

Product Name: MODIF®
Product Code: 048-01

1.2 Relevant identified uses of the substance or mixture and uses advised against

Product Use: Fungicide

1.3 Details of the supplier of the safety data sheet

Company: Life Scientific Ltd,
Block 4,
Belfield Office Park,
Beech Hill Road,
Dublin 4
Ireland
Telephone: +353 (0) 1 2832024
Email: info@lifescientific.com
Web: www.lifescientific.com

1.4 Emergency contact information

In case of Emergency: Tel. NHS 111

Section 2. HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Skin Sens	Category 1A	H317
Aquatic Acute	Category 1	H400
Aquatic Chronic	Category 1	H410

2.2 Label Elements

Classification according to Regulation (EC) No 1272/2008

Hazard pictograms



Signal Word:

Warning

A water dispersible granule formulation containing 37.5% w/w cyprodinil and 25% w/w fludioxonil

Hazard statements:

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

EUH401 To avoid risks to man and environment comply with the instructions for use.

Precautionary statement:

P102 Keep out of reach of children.
P261 Avoid breathing spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P391 Collect spillage.
P501 Dispose of contents/container to an approved waste disposal plant.

SP1 Do not contaminate water with the product or its container (Do not clean application equipment near surface water/Avoid contamination via drains from farmyards and roads).

2.3 Other Hazards

May form flammable dust air mixture.

Section 3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

No substances fulfil the criteria set out in Annex II, Part A of the REACH Regulation (EC) No 1907/2006.

3.2 Mixtures

Chemical Name	CAS	EC	Classification (Regulation (EC) No 1272/2008)	Concentration (% w/w)
cyprodinil	121552-61-2	601-785-8	Skin Sens.1B; H317 Aquatic Acute1; H400 Aquatic Chronic1; H410	37.5 % w/w
fludioxonil	131341-86-1		Aquatic Acute1; H400 Aquatic Chronic1; H410	25 % w/w
Dibutylnaphthalene sulfonate, sodium salt	25417-20-3 7757-82-6	-	Acute Tox.4; H302 Acute Tox.4; H332 Skin Irrit.2; H315 Eye Irrit.2; H319 Aquatic Chronic3; H412	0-5 % w/w

Substances for which there are Community workplace exposure limits. For the full text of the H-Statements mentioned in this Section, see Section 16.

Section 4. FIRST AID MEASURES

Generally, in case of doubt or if symptoms persist, always call a doctor. NEVER give anything by mouth to an unconscious person. Have the product container, label or Material Safety Data Sheet with you when calling an emergency number, a poison control centre or physician, or going for treatment.

4.1 Description of first aid measures

Inhalation : If inhaled, remove victim to fresh air. If breathing is difficult, give oxygen. If breathing is irregular or stopped, give artificial respiration. Consult a physician or Poison Control Centre immediately.

Ingestion : DO NOT induce vomiting unless directed to do so by a Poison Control Centre. If patient is conscious, wash out mouth with water. Seek medical advice and show the product container, label or data sheet if possible.

Skin contact: Remove contaminated clothing immediately. Wash skin immediately with plenty of water. If skin irritation persists, Consult a physician. Wash contaminated clothing before re-use.

Eye contact: Remove contact lenses if present. Rinse immediately with plenty of water, with the eyelid open for at least 15 minutes. Obtain immediate medical attention.

4.2 Most important symptoms and effects, both acute and delayed

No known symptoms

4.3 Indication of any immediate medical attention and special treatment needed

Information to physician: There is no specific antidote available. Treat symptomatically.

Section 5. FIREFIGHTING MEASURES

5.1 Extinguishing media

For small fires: Use water spray, dry chemical, alcohol-resistant foam or carbon dioxide.

For large fires: Use alcohol-resistant foam or water spray. Avoid using solid water stream as it may cause the fire to scatter or spread.

5.2 Special hazards arising from the substance or mixture

The product contains combustible organic components, in case of fire, dense black smoke containing hazardous combustion products will be formed. Inhalation of decomposition products may cause health problems

5.3 Advice for Firefighters

Wear self-contained breathing apparatus. Fight fire from a safe distance and a protected location.

Further information : Do not allow run-off from fire fighting to enter drains or water courses. Cool closed containers exposed to fire with water spray.

Section 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Refer to protective measures listed in sections 7 and 8.

6.2 Environmental precautions

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in drums for waste disposal. Prevent entry into sewers or waterways.

6.3 Methods and materials for containment and cleaning up

Clean preferably with a detergent, avoid the use of solvents.

6.4 Reference to other sections

No data is available.

Section 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

This material can form flammable dust clouds in air. If ignited can produce a dust cloud explosion. Flames, hot surfaces, mechanical sparks and electrostatic discharges can serve as ignition sources for this material.

Avoid contact with eyes. When using, do not eat drink or smoke. IF ON SKIN: Wash with plenty of soap and water.

For personal protection see section 8.

7.2 Conditions for safe storage, including any incompatibilities

Storage: Keep out of the reach of children.
Packing: Always keep in containers of same material as the original

7.3 Specific end use(s)

For professional use only. Please refer to the product label for the approved conditions of use.

Section 8. EXPOSURE CONTROL/PERSONAL PROTECTION

8.1 Control parameters

Component	Exposure Limits	Categories	Source
Cyprodinil	7 mg/m ³	8 hTWA	Supplier
Fludioxonil	10 mg/m ³	8 h TWA	Supplier

Exposure controls:

Individual protection measures, such as personal protective equipment:

Use personal protective equipment that is clean and properly maintained. Store personal protective equipment in a clean place, away from the work area.

When using, do not eat, drink or smoke. Remove and wash contaminated clothing before reuse. Ensure adequate ventilation, especially in confined areas.

Eye / face protection:

Avoid contact with eyes. Use safety eyewear designed to protect against liquid splashes. It is necessary to wear safety goggles in accordance with standard EN166.

Protection of hands:

Wear suitable protective gloves if prolonged or repeated contact with skin.

Body protection:

No special protective equipment required. Select skin and body protection based on the physical job requirements

Respiratory protection:

Filters - anti-gas and vapours (Combined filters) to the NF EN14387 : A1 (Brown).

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance

Form: Granules
Colour: Grey to brown
Odour: No particular odour

Chemical properties

pH (at 20 °C): 8-11 at 10 g/L
Oxidising properties: Not oxidising
Explosive properties: Not explosive
Flammability (solid,gas): Not highly flammable
Density (g/cm³): No data available
Solubility in other solvents: Not soluble

Log P octanol/water at 20°C: No data available
Flash point (°C): No data available
Dynamic viscosity: No data available

9.2 Other Information

Minimum ignition
Temperature: 675°C

Section 10. STABILITY AND REACTIVITY

10.1 Reactivity

No data is available

10.2 Chemical Stability

This mixture is stable at the handling and storage conditions recommended in Section 7.

10.3 Possibility of hazardous reactions

No data is available

10.4 Conditions to avoid

Avoid: Heat

10.5 Incompatible material

Keep away from oxidizing agents

10.6 Hazardous decomposition products

Combustion or thermal decomposition will evolve toxic and irritant vapours.

Section 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Oral Toxicity LD50 Rat: >5000 mg/kg
Acute Dermal Toxicity LD50 Rat: >2000 mg/kg
Acute Inhalation Toxicity LC50 Rat: >2.51mg/l, 4 h. Based on test results obtained with similar product.
Acute Eye Irritation, Rabbit: Non-irritant
Acute Skin Irritation, Rabbit: Non-irritant
Sensitisation, Guinea pig: Not a skin sensitiser in animal tests.
Long-Term Toxicity: Did not show carcinogenic, teratogenic or mutagenic effects in animal experiments.

Section 12. ECOLOGICAL INFORMATION

12.1 Toxicity

LC₅₀ Rainbow trout (96 h): 3.1 mg/L
EC₅₀ Daphnia magna (48 h): 0.14 mg/L
E₅₀ Green algae (72 h): 1.6 mg/L
EbC₅₀ Green algae (72h): 0.6 mg/L

12.2 Persistence and degradability

Biodegradability: Cyprodinil, fludioxonil are not readily biodegradable.

Stability in water: Cyprodinil: Not persistent in water. Fludioxonil is stable in water.
Stability in soil: Cyprodinil: Not persistent in soil. Fludioxonil: Not persistent in soil.

12.3 Bioaccumulative potential

Cyprodinil does not bioaccumulate.
Fludioxonil does not bioaccumulate.

12.4 Mobility in soil

Cyprodinil: Low to very slight mobility in soil.
Fludioxonil: Immobile in soil.

12.5 Results of PBT and vPvB assessment

Cyprodinil, fludioxonil: These substances are not considered to be persistent, bioaccumulating or toxic (PBT).

12.6 Other adverse effects

No data available

Section 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Do not discharge into drains or rivers. Waste management is performed without endangering human health and without harming the environment, and in particular without risk to water, air, soil, fauna and flora.
Recycle or dispose of in accordance with current legislation, preferably via a certified collector or company.
Do not contaminate the ground or water with waste; do not dispose of waste into the environment.
Contaminated packaging: Empty container completely. Keep the label on the recipient.

Section 14. TRANSPORT INFORMATION

Transport in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO / IATA for air transport (ADR 2011 - IMDG 2010 - ICAO / IATA 2011).

14.1 UN Number

3077

14.2 UN proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CYPRODINIL AND FLUDIOXONIL)

14.3 Transport hazard class

9

14.4 Packing group

III

14.5 Environmental hazards

Environmentally hazardous

14.6 Special precautions for user

None

14.7 Transport in bulk according to Annex II of Marpol 73/78 and the IBC code

No data available

Section 15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulation/legislation specific for the substance or mixture in Section 3.

To avoid risks to man and the environment, comply with the instructions for use. See Section 2.2 for label requirements.

15.2 Chemical safety assessment

None

Section 16. OTHER INFORMATION

Full text hazard statements mentioned in section 2 and 3.

H302 Harmful if swallowed.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes severe eye irritation.
H332 Harmful if inhaled.
H400 Very toxic to aquatic organisms
H410 Very toxic to aquatic organisms with long lasting effects.

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