

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

**1.1 Product Identifier**

Product Name: MODIF®  
Product Code: 048-01  
UFI Code: FUMV-EC4J-K10X-0VEJ

**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](mailto:info@lifescientific.com)  
Web: [www.lifescientific.com](http://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 (EU) No. 1272/2008**

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

**2.2 Label Elements**

**Labelling according to Regulation (EU) 1272/2008**

Hazard Pictograms:



Signal Word:

Warning

Hazard Phrases:

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

**Precautionary Phrases:**

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 a licensed hazardous waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste

**Other Phrases:**

EUH401	To avoid risks to human health and the environment, comply with the instructions for use.
SP 1	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
Dibutyl-naphthalene 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	5 mg/m <sup>3</sup>	TWA	Supplier
Fludioxonil	5 mg/m <sup>3</sup>	TWA	Supplier
Silica	1.2 mg/m <sup>3</sup>	TWA (Respirable dust)	GB EH40

**8.2 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/cm<sup>3</sup>): 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  
 Minimum ignition Temperature: 675 °C

**9.2 Other Information**

None.

## **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:	>2.51 mg/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.

### **11.2 Information on other hazards Endocrine disrupting properties**

Product:  
Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## **Section 12. ECOLOGICAL INFORMATION**

### **12.1 Toxicity**

LC <sub>50</sub> Rainbow trout (96 h):	3.1 mg/L
EC <sub>50</sub> Daphnia magna (48 h):	0.14 mg/L
E <sub>r</sub> C <sub>50</sub> Green algae (72 h):	1.6 mg/L
EbC <sub>50</sub> 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**

The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

**12.6 Endocrine disrupting properties**

Product:

Assessment: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**12.7 Other adverse effects**

None.

**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 the product in accordance with the provisions of ADR for road, RID for rail, IMDG for the sea, and ICAO / IATA for air transport

**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(es)**

9

**14.4 Packing group**

III

**14.5 Environmental hazards**

Yes

**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**

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 list of relevant hazard and precautionary statements that were not given in full in sections 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.

The information presented in this document is accurate to the best of our knowledge at the date of its publication. However, the information given is designed only as a guide for the methods of handling, storage, use, transportation and disposal of the product and is not considered a warranty or quality specification. Life Scientific Limited cannot be held responsible for any loss or damage resulting from the handling, storage, use or disposal of the product. The information contained in this document relates only to this specific product.

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