SAFETY DATA SHEET

The Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Fluopicolide 200 Cymoxanil 240 SC

Revision date 18-May-2022 **Version** 1 **Supersedes Date:** 18-May-2022 **Product Code(s)** FNG56989-GHS

Print Date 18-May-2022 ADM.01951.F.1.A 9511250

1. Identification

Product identifier

Fluopicolide 200 Cymoxanil 240 SC

Other means of identification

Formulation type SC
Pure substance/mixture Mixture

Recommended use of the chemical and restrictions on use

Recommended use Fungicide
Uses advised against No information available

Detailed information about the manufacturer, supplier, and/or importer

Supplier

ADAMA Makhteshim Ltd
PO Box 60
Beer Sheva 8410001 Israel

Emergency telephone number

Emergency Telephone

ADAMA Makhteshim: + 972 8 6560800/801 ; + 972 8 6296713/714
ADAMA Agan : + 972 8 8515341

E-mail address SDS@ADAMA.COM

2. Hazard(s) identification

Classification of the substance or mixture

Acute toxicity - Oral	Category 4 - (H302)
Reproductive toxicity	Category 2 - (H361)
Specific target organ toxicity (repeated exposure)	Category 2 - (H373)
Acute aquatic toxicity	Category 1 - (H400)
Chronic aquatic toxicity	Category 2 - (H411)

Label elements

Signal word Warning

Hazard pictograms



Hazard statements

H302 - Harmful if swallowed
H361 - Suspected of damaging fertility or the unborn child
H373 - May cause damage to organs through prolonged or repeated exposure
H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements

P102 - Keep out of reach of children
P201 - Obtain special instructions before use
P260 - Do not breathe dust/fume/gas/mist/vapors/spray
P270 - Do not eat, drink or smoke when using this product
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P501 - Dispose of contents/ container to an approved waste disposal plant

Other hazards

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

3. Composition/information on ingredients

Substance

Not applicable

Mixture

Chemical name	CAS No	Weight-%	EC No	INTERNATIONAL GHS CLASSIFICATION	M-Factor
Cymoxanil	57966-95-7	19-22	261-043-0	Repr. 2 (H361) STOT RE 2 (H373) Acute Tox. 4 (H302) Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	M=1M=1
Fluopicolide	239110-15-7	15-20		Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	

4. First-aid measures

Description of necessary first aid measures

General advice

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). First aider: Pay attention to self-protection.

Inhalation

Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Call a physician.

Skin contact

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Consult a physician if necessary.

Eye contact

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms

persist, call a physician.

Ingestion Rinse mouth. Drink plenty of water. Get medical attention immediately if symptoms occur.

For emergency responders

Self-protection of the first aider Use personal protective equipment as required.

Most important symptoms/effects, acute and delayed

Symptoms None known.

Indication of immediate medical attention and special treatment needed, if necessary

Note to physicians Treat symptomatically.

5. Fire-fighting measures

Suitable Extinguishing Media

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Small Fire Dry chemical, CO2, water spray or regular foam

Large Fire Do not scatter spilled material with high pressure water streams
Dike fire-control water for later disposal
Water spray, fog or regular foam
Move containers from fire area if you can do it without risk

Unsuitable extinguishing media Do not scatter spilled material with high pressure water streams.

Specific hazards arising from the chemical

Specific hazards arising from the chemical No information available.

A fire or explosion Some may burn but none ignite readily
Containers may explode when heated
Some may be transported hot

Explosive properties Not an explosive.

Specific/special fire-fighting measures

Specific/special fire-fighting measures No information available.

Special protective equipment and precautions for fire-fighters

Special protective equipment for fire-fighters Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas.

Health risk Contact may cause burns to skin and eyes
Runoff from fire control may cause pollution
Fire may produce irritating, corrosive and/or toxic gases

	Inhalation of material may be harmful Some liquids produce vapors that may cause dizziness or suffocation
Spill or leak statements	Do not touch or walk through spilled material Stop leak if you can do it without risk

Environmental precautions

Environmental precautions	See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Pick up and transfer to properly labeled containers.
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.
Other information	Refer to protective measures listed in Sections 7 and 8.

7. Handling and storage

Preventive measures for safe handling

Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes. Ensure adequate ventilation.

Precautions for safe handling

General hygiene considerations	Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product.

Conditions for safe storage, including any incompatibilities

Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Store locked up.

8. Exposure controls/personal protection

Control parameters

Exposure guidelines	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

Appropriate engineering controls

Engineering controls	Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.
Hand protection	Wear suitable gloves.
Eye/face protection	Tight sealing safety goggles.

Skin and body protection Wear suitable protective clothing.

General hygiene considerations Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product.

Environmental exposure controls Local authorities should be advised if significant spillages cannot be contained.

9. Physical and chemical properties

Information on basic physical and chemical properties

Property		Values	Method	Remarks
Appearance				
Physical state	:	liquid		
Color	:	light Ivory		
Odor	:	Odorless		
Odor threshold	:	No data available		
pH	:	3.8 - 4.2	CIPAC MT 75.3	
Melting point / freezing point °C	:	No data available		
Boiling point / boiling range °C	:	No data available		
Flash point °C	:	> 200	EEC A.9	
Evaporation rate	:	No data available		
Flammability (solid, gas)	:	Not applicable		
Upper/lower flammability or explosive limits	:	No data available		
Vapor pressure kPa	:	No data available		
Vapor density	:	No data available		
Relative density	:	1.13-1.17	EEC A.3	
Solubility(ies) mg/l	:	No data available		
Partition coefficient Log Pow	:			See Section 12 for additional Ecological Information
Autoignition temperature °C	:	442°C		
Decomposition temperature °C	:	No data available		
Kinematic viscosity mm2/s 40 °C	:	145	OECD GL 114	
Explosive properties	:	Not an explosive	EEC A.14	
Oxidizing properties	:	Not oxidizing	EEC A.21	
Surface tension	:	28.3 mN/m	OECD 115	
Particle Size	:	Not applicable		

Other information

Bulk density g/ml : not available

10. Stability and reactivity

Reactivity

Reactivity No information available.

Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

Conditions to avoid

Conditions to avoid None known based on information supplied.

Incompatible materials

Incompatible materials None known based on information supplied.

Hazardous decomposition products

Hazardous decomposition products None known based on information supplied.

11. Toxicological information

Information on toxicological effects

Acute toxicity

		Values	Species	Method	Remarks
Oral LD50 mg/kg	:	2000	Rat	OECD 423	
Dermal LD50 mg/kg	:	>2000	Rat	OECD 402	
Inhalation LC50 LC50	:	> 5.6	Rat	OECD 403	
Skin corrosion/irritation	:	Non-irritating to the skin	Rabbit	OECD 404	
Serious eye damage/eye irritation	:	Not irritating to eyes	Rabbit	OECD 405	
Sensitization	:	Not a skin sensitizer	Guinea pig	LLNA	

Chronic toxicity

Germ cell mutagenicity

Chemical name	
Cymoxanil	: Not classified
Fluopicolide	: Not classified

Carcinogenicity .

Chemical name	
Cymoxanil	: Not Carcinogenic
Fluopicolide	: Not classified

Reproductive toxicity .

Chemical name	
Cymoxanil	: H361fd - Suspected of damaging fertility. Suspected of damaging the unborn child
Fluopicolide	: Not classified

STOT - Single Exposure

Chemical name	
Cymoxanil	: No data available
Fluopicolide	: No data available

STOT - Repeated Exposure

Chemical name	
Cymoxanil	: H373 - May cause damage to organs through prolonged or repeated exposure
Fluopicolide	: No data available

Aspiration hazard

Chemical name	
Cymoxanil	: No data available
Fluopicolide	: No data available

12. Ecological information

Ecotoxicity

Aquatic toxicity

Acute toxicity		**Values**	**Species**	**Method**	**Remarks**
Fish 96-hour LC50 mg/l	:	0.673	Oncorhynchus mykiss	OECD 203	
Crustacea 48-hour EC50 mg/l	:	> 100	Daphnia magna	OECD 202	
Algae 72-hour EC50 mg/l	:	3.05	D. Subspicatus	OECD 201	
Other plants EC50 mg/l	:	No data available			

Chronic aquatic toxicity		**Values**	**Species**	**Method**	**Remarks**
Fish NOEC mg/l	:	0.445	Rainbow trout	OECD 203	
Crustacea NOEC mg/l	:	51	Daphnia magna	OECD 202	
Algae NOEC mg/l	:	0.153	D. Subspicatus	OECD 201	
Other plants NOEC mg/l	:	No data available			

Terrestrial Toxicity

Birds Oral LD50 mg/kg

Chemical name				
Cymoxanil	:	>2000	Colinus virginianus	
Fluopicolide	:	>2250		OECD 401

Bees Oral LD50 µg/bee

Chemical name				
Cymoxanil	:	> 85.29		
Fluopicolide	:	> 241		OECD 213

Abiotic Degradation

Water DT50 days

Chemical name		
Cymoxanil	:	0.3
Fluopicolide	:	1116.5

Soil DT50 days

Chemical name		
Cymoxanil	:	1.4
Fluopicolide	:	271 d

Biodegradation

Chemical name		
Cymoxanil	:	Not readily biodegradable
Fluopicolide	:	Not readily biodegradable

Log Pow		**Values**	**Method**	**Remarks**
Chemical name				
Cymoxanil	:	0.64		20 ◦ C
Fluopicolide	:	2.9		

Bioconcentration factor (BCF)

Chemical name			
Cymoxanil	:	...	No bioaccumulation potential
Fluopicolide	:	121	

Adsorption/Desorption	**Values**	**Method**	**Remarks**
Chemical name			

Cymoxanil	: 43.6 mL/g	KOC
Fluopicolide	: 321..1	KOC

13. Disposal considerations

Disposal methods

Waste from residues/unused products Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Improper disposal or reuse of this container may be dangerous and illegal.

14. Transport information

ADR

14.1 UN number	UN3082
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Cymoxanil, Fluopicolide)
14.3 Transport hazard class(es)	9
Labels	9
14.4 Packing group	III
Description	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Cymoxanil, Fluopicolide), 9, III
14.5 Environmental hazard	Yes
14.6 Special Precautions for Users	
Special Provisions	274, 335, 601, 375
Classification code	M6

RID

14.1 UN number	UN3082
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Cymoxanil, Fluopicolide)
14.3 Transport hazard class(es)	9
Labels	9
14.4 Packing group	III
Description	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Cymoxanil, Fluopicolide), 9, III
14.5 Environmental hazard	Yes
14.6 Special Precautions for Users	
Special Provisions	274, 335, 375, 601
Classification code	M6

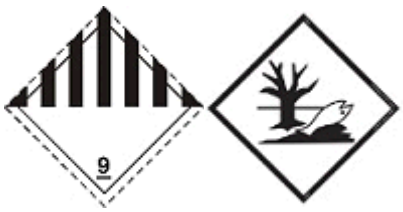
IMDG

14.1 UN number	UN3082
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Cymoxanil, Fluopicolide)
14.3 Hazard Class	9
14.4 Packing group	III
Description	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Cymoxanil, Fluopicolide), 9, III, (0°C C.C.), Marine pollutant
14.5 Marine pollutant	P
Environmental hazard	Yes
14.6 Special Precautions for Users	
Special Provisions	274, 335, 969
EmS-No	F-A, S-F
IMDG Stowage and segregation	Category A
14.7. Transport in bulk according to	No information available

Annex II of MARPOL and the IBC Code

IATA

14.1 UN number	UN3082
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Cymoxanil, Fluopicolide)
14.3 Transport hazard class(es)	9
14.4 Packing group	III
Description	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Cymoxanil, Fluopicolide), 9, III
14.5 Environmental hazard	Yes
14.6 Special Precautions for Users	
Special Provisions	A97, A158, A197
ERG Code	9L



* Note: UN3077 & UN3082 – These products may be transported as non-dangerous goods under the special provisions of IMDG Code 2.10.2.7; ADR SP375 and ICAO/IATA A197 when packed in single or inner packaging of up to 5L for liquids or 5 kg or less for solids

15. Regulatory information

Safety, health and environmental regulations specific for the product in question

16. Other information

Full text of H-Statements referred to under section 3
H302 - Harmful if swallowed
H317 - May cause an allergic skin reaction
H361 - Suspected of damaging fertility or the unborn child
H373 - May cause damage to organs through prolonged or repeated exposure
H400 - Very toxic to aquatic life
H410 - Very toxic to aquatic life with long lasting effects

Date of preparation of the SDS No data available

Revision date 18-May-2022

Revision Note Changes made to the last version are labeled with this sign ***.

Key or legend to abbreviations and acronyms used in the safety data sheet

IMDG	International Maritime Dangerous Goods (IMDG)
IATA	International Air Transport Association (IATA)
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

Abbreviations and acronyms

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
CAS Number - Chemical Abstracts Service number
EC Number - EINECS and ELINCS Number
EINECS - European Inventory of Existing Commercial Substances
ELINCS - European List of notified Chemical Substances
IATA - International Air Transport Association
ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air
IMDG - International Maritime Dangerous Goods
LC50 - Lethal Concentration to 50 % of a test population
LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose)
OECD - Organization for Economic Co-operation and Development
PBT - Persistent, Bioaccumulative and Toxic substance
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail
STOT - Specific Target Organ Toxicity
vPvB - Very Persistent and Very Bioaccumulative

The Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Classification of the mixture	**Classification procedure**
H302 - Harmful if swallowed	Classification based on test data
H361 - Suspected of damaging fertility or the unborn child	Classification based on Calculation method
H373 - May cause damage to organs through prolonged or repeated exposure	Classification based on Calculation method
H400 - Very toxic to aquatic life	Classification based on test data
H410 - Very toxic to aquatic life with long lasting effects	Classification based on test data

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of Safety Data Sheet