

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision date 31-Dec-2024

Revision Number 1.01

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier		
Product Code(s)	DRE-C14938000	
Product Name	Metamifop	
Form	Not applicable	
REACH registration number EC No (EU Index No)	- 607-768-1	
CAS No.	256412-89-2	
Pure substance/mixture	Substance	
Formula	C <sub>23</sub> H <sub>18</sub> C IF N <sub>2</sub> O <sub>4</sub>	
Molecular weight	440.8	
1.2. Relevant identified uses of the	substance or mixture and uses advised against	
Recommended use	Laboratory use	
Uses advised against	No information available	
1.3. Details of the supplier of the sa	afety data sheet	
Supplier		
LGC Limited Queens Road Teddington Middlesex TW11 0LY UNITED KINGDOM :+44 (0) 20 8943 7000 Fax :+44 (0) 20 8943 2767 eMail : gb@lgcstandards.com		
Web : www.lgcstandards.com		

For further information, please contact

E-mail address

sds-request@lgcstandards.com



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### 1.4. Emergency telephone number

**Emergency Telephone** 

For Hazardous Materials or Dangerous Goods Incident Spill, Leak, Fire Exposure, or Accident Call CHEMTREC: USA & Canada 1-800-424-9300 Rest of the world +1 703-741-3877

Emergency Telephone - §45 - (EC)1272/2008			
Europe	112		
Austria	No information available		
Bulgaria			
Croatia			
Cyprus			
Czech Republic			
Denmark			
France			
Hungary			
Ireland			
Italy			
Lithuania			
Luxembourg			
Netherlands			
Norway			
Portugal			
Romania			
Slovakia			
Slovenia			
Spain			
Sweden			
Switzerland			

### SECTION 2: Hazards identification

# **2.1. Classification of the substance or mixture** Classification according to

Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity - Dermal	Category 4 - (H312)
Acute toxicity - Inhalation (Dusts/Mists)	Category 4 - (H332)
Skin sensitisation	Category 1 - (H317)
Hazardous to the aquatic environment - acute	Category 1 - (H400)
Hazardous to the aquatic environment - chronic	Category 1 - (H410)



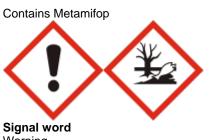
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### 2.2. Label elements



Warning

### Hazard statements

H312 - Harmful in contact with skin
H317 - May cause an allergic skin reaction
H332 - Harmful if inhaled
H410 - Very toxic to aquatic life with long lasting effects

### Precautionary Statements - EU (§28, 1272/2008)

P273 - Avoid release to the environment

P280 - Wear protective gloves and protective clothing

P312 - Call a POISON CENTER or doctor if you feel unwell

P391 - Collect spillage

P501 - Dispose of contents and container in accordance with local, regional, national, and international regulations as applicable

### 2.3. Other hazards

No information available.

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

This product does not contain any known or suspected endocrine disruptors.

### **SECTION 3: Composition/information on ingredients**

### 3.1 Substances

Chemical name	Weight-%	<b>REACH</b> registration	EC No (EU	Classification according	Specific	M-Factor	M-Factor
		number	Index No)	to Regulation (EC) No.	concentration		(long-term)
				1272/2008 [CLP]	limit (SCL)		
Metamifop	100	-	607-768-1	Acute Tox. 4 (H312)			
256412-89-2				Acute Tox. 4 (H332)			



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	Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	
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### Full text of H- and EUH-phrases: see section 16

Acute Toxicity Estimate No information available

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

SECTION 4: First aid measures			
4.1. Description of first aid measures			
General advice	Show this safety data sheet to the doctor in attendance.		
Inhalation	If breathing has stopped, give artificial respiration. Get medical attention immediately. Remove to fresh air. If symptoms persist, call a doctor.		
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a doctor.		
Skin contact	Wash with soap and water. May cause an allergic skin reaction. Wash off immediately with plenty of water for at least 15 minutes. If symptoms persist, call a doctor.		
Ingestion	Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Get medical attention.		
Self-protection of the first aider	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid breathing dust/fume/gas/mist/vapours/spray. Use personal protective equipment as required. See section 8 for more information.		
4.2. Most important symptoms and effects, both acute and delayed			
Symptoms	Itching. Rashes. Hives. Coughing and/ or wheezing. Difficulty in breathing.		
4.3. Indication of any immediate medical attention and special treatment needed			
Note to doctors	May cause sensitisation in susceptible persons. Treat symptomatically.		



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SECTION 5: Firefighting measures 5.1. Extinguishing media		
Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.	
Large Fire	CAUTION: Use of water spray when fighting fire may be inefficient.	
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.	
5.2. Special hazards arising from the substance or mixture		
Specific hazards arising from the chemical	Product is or contains a sensitiser. May cause sensitisation by skin contact.	
5.3. Advice for firefighters		
Special protective equipment and precautions for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.	

### **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Avoid generation of dust. Do not breathe dust.		
Other information	Refer to protective measures listed in Sections 7 and 8.		
For emergency responders	Use personal protection recommended in Section 8.		
6.2. Environmental precautions			
Environmental precautions	Prevent further leakage or spillage if safe to do so.		
6.3. 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	Take up mechanically, placing in appropriate containers for disposal.		
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.		



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### 6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

### **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid generation of dust.
General hygiene considerations	Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Wear suitable gloves and eye/face protection. Avoid breathing dust/fume/gas/mist/vapours/spray.
7.2. Conditions for safe storage, incl	uding any incompatibilities
Storage Conditions	Please refer to the manufacturer's certificate for specific storage and transport temperature conditions. Store only in the original receptacle unless other advice is given on the CoA. Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children.

### 7.3. Specific end use(s)

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

### **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

Exposure Limits

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

### **Biological occupational exposure limits**



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Chemical name	Latvia	Luxembourg	Romania	Slovakia
Metamifop	-	-	5 mg/g Creatinine - urine	-
256412-89-2			(Fluorine) - end of shift	

Derived No Effect Level (DNEL) No information available. Predicted No Effect Concentration (PNEC)

8.2. Exposure controls

Eye/face protection	Avoid contact with eyes. Wear safety glasses with side shields (or goggles).
Hand protection	Wear suitable gloves. The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374. Wear protective butyl rubber gloves. Wear protective Viton <sup>™</sup> gloves.
Skin and body protection	Wear suitable protective clothing. Long sleeved clothing.
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
General hygiene considerations	Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Wear suitable gloves and eye/face protection. Avoid breathing dust/fume/gas/mist/vapours/spray.
Environmental exposure controls	Do not allow into any sewer, on the ground or into any body of water.

### SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	Solid
Appearance	Solid
Colour	beige to brown
Odour	No information available.
Odour threshold	No information available

PropertyValuesMelting point / freezing point77-81°CInitial boiling point and boiling rangeNo data availableFlammabilityNo data available

Remarks • Method None known None known None known



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Flammability Limit in Air None known Upper flammability or explosive No data available limits Lower flammability or explosive No data available limits No data available Flash point None known Autoignition temperature No data available None known **Decomposition temperature** None known pН No data available None known pH (as aqueous solution) No data available No information available **Kinematic viscosity** No data available None known **Dynamic viscosity** No data available None known Water solubility No data available None known Chloroform Solubility(ies) Partition coefficient 5.47 None known Vapour pressure No data available None known **Relative density** 1.39 None known **Bulk density** No data available Liquid Density No data available **Relative vapour density** No data available None known **Particle characteristics** No information available Particle Size **Particle Size Distribution** No information available 9.2. Other information 440.8 Molecular weight Molecular formula C 23H18C IF N2O4

9.2.1. Information with regards to physical hazard classes Not applicable

9.2.2. Other safety characteristics No information available

### SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reactivity

No information available.

10.2. Chemical stability

Stability

Stable under normal conditions.

Explosion data Sensitivity to mechanical impact None.

EGHS / EN



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### DRE-C14938000 - Metamifop

Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoid Excessive heat.

10.5. Incompatible materials

Incompatible materials None known based on information supplied.

10.6. Hazardous decomposition products

Hazardous decomposition products None known based on information supplied.

### **SECTION 11: Toxicological information**

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

### Information on likely routes of exposure

### **Product Information**

Inhalation	Specific test data for the substance or mixture is not available. Harmful by inhalation. (based on components).
Eye contact	Specific test data for the substance or mixture is not available.
Skin contact	May cause sensitisation by skin contact. Specific test data for the substance or mixture is not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components). May be absorbed through the skin in harmful amounts. Harmful in contact with skin.
Ingestion	Specific test data for the substance or mixture is not available.
Symptoms related to the physical,	chemical and toxicological characteristics
Symptoms	Itching. Rashes. Hives. Coughing and/ or wheezing.
Numerical measures of toxicity	



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### DRE-C14938000 - Metamifop

Acute toxicity

### **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50		
Metamifop	> 2000 mg/kg(Rat)	= 2000 mg/kg ( Rat )	= 2.61 mg/l ( Rat, 4h )		
Delayed and immediate effects as well as chronic effects from short and long-term exposure					
Skin corrosion/irritation	Based on available data, t	the classification criteria are not m	net.		
Serious eye damage/eye irritati	on No information available.				
Respiratory or skin sensitisation	n May cause an allergic skir	May cause an allergic skin reaction.			
Germ cell mutagenicity	No information available.				
Carcinogenicity	No information available.				
Reproductive toxicity	No information available.				
STOT - single exposure	No information available.				
STOT - repeated exposure	No information available.				
Aspiration hazard	No information available.				
11.2. Information on other hazards					
11.2.1. Endocrine disrupting properties					
Endocrine disrupting propertie	<b>s</b> No information available.				



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### 11.2.2. Other information

Other adverse effects

No information available.

### **SECTION 12: Ecological information**

### 12.1. Toxicity

Ecotoxicity

Very toxic to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Metamifop	-	LC50: 0.307 mg/l	-	EC50: 0.288 mg/l
		(Oncorhynchus mykiss,		(Daphnia magna, 48h)
		96h)		_

### 12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

**Bioaccumulation** There is no data for this product.

### **Component Information**

Chemical name	Partition coefficient
Metamifop	5.47

### 12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment No information available.

12.6. Endocrine disrupting properties

**Endocrine disrupting properties** No information available.

### 12.7. Other adverse effects

No information available.



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### **SECTION 13: Disposal considerations**

13.1. Waste treatment methods

Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging	Do not reuse empty containers.

### **SECTION 14: Transport information**

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4			_	٦.

<ul> <li>IATA</li> <li>14.1 UN number or ID number</li> <li>14.2 UN proper shipping name</li> <li>14.3 Transport hazard class(es)</li> <li>14.4 Packing group</li> <li>Description</li> <li>14.5 Environmental hazards</li> <li>14.6 Special precautions for user</li> <li>Special Provisions</li> <li>ERG Code</li> </ul>	UN3077 Environmentally hazardous substances, solid, n.o.s. (Metamifop) 9 III UN3077, Environmentally hazardous substances, solid, n.o.s. (Metamifop), 9, III Yes A97, A158, A179, A197, A215 9L
<ul> <li>IMDG</li> <li>14.1 UN number or ID number</li> <li>14.2 UN proper shipping name</li> <li>14.3 Transport hazard class(es)</li> <li>14.4 Packing group Description</li> <li>14.5 Marine pollutant Environmental hazards</li> <li>14.6 Special precautions for user</li> </ul>	UN3077 Environmentally hazardous substances, solid, n.o.s. (Metamifop) 9 III UN3077, Environmentally hazardous substances, solid, n.o.s. (Metamifop), 9, III, Marine pollutant P Yes
Special Provisions EmS-No. 14.7 Maritime transport in bulk according to IMO instruments	274, 335, 966, 967, 969 F-A, S-F No information available No information available
<u>RID</u> 14.1 UN number or ID number 14.2 UN proper shipping name 14.3 Transport hazard class(es) 14.4 Packing group Description	UN3077 Environmentally hazardous substances, solid, n.o.s. (Metamifop) 9 III UN3077, Environmentally hazardous substances, solid, n.o.s. (Metamifop), 9, III



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14.5 Environmental hazards 14.6 Special precautions for user	Yes
Special Provisions	274, 335, 375, 601
Classification code	M7
ADR 14.1 UN number or ID number 14.2 UN proper shipping name 14.3 Transport hazard class(es) 14.4 Packing group Description 14.5 Environmental hazards 14.6 Special precautions for user	UN3077 Environmentally hazardous substances, solid, n.o.s. (Metamifop) 9 III UN3077, Environmentally hazardous substances, solid, n.o.s. (Metamifop), 9, III, (-) Yes
Special Provisions	274, 335, 601, 375
Classification code	M7
Tunnel restriction code	(-)

### **SECTION 15: Regulatory information**

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### National regulations

Germany Water hazard class (WGK) strongly hazardous to water (WGK 3) TA Luft (German Air Pollution Control Regulation)

### **European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

### Authorisations and/or restrictions on use:

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

### DIRECTIVE (EU) 2021/1187 on the marketing and use of explosives precursors

Not applicable

### **Persistent Organic Pollutants**



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Not applicable

Dangerous substance category per Seveso Directive (2012/18/EU) E1 - Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1

### Ozone-depleting substances (ODS) Regulation (EU) 2024/590

Not applicable

International Inventories TSCA

International inventories	
TSCA	LGC has not confirmed that the chemical substances in this product are on the TSCA Inventory, and LGC is distributing this product solely for use either in applications statutorily exempt from TSCA and regulated under other laws (e.g., FFDCA, FIFRA) or in research and development activities in accordance with the TSCA Inventory R&D exemption provided at 40 CFR 720.36. It is the end-user's responsibility to understand and follow the requirements that apply to its use of this product.
DSL/NDSL	Contact supplier for inventory compliance status
EINECS/ELINCS	Contact supplier for inventory compliance status
ENCS	Contact supplier for inventory compliance status
IECSC	Contact supplier for inventory compliance status
KECL	Contact supplier for inventory compliance status
PICCS	Contact supplier for inventory compliance status
AIIC	Contact supplier for inventory compliance status

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

15.2. Chemical safety assessment

A Chemical Safety Assessment is not required for this substance **Chemical Safety Report** 

### SECTION 16: Other information

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



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### Full text of any hazard and/or precautionary statements referred to under Sections 2-15

H312 - Harmful in contact with skin

H317 - May cause an allergic skin reaction

H332 - Harmful if inhaled

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

### Legend

SVHC: Substances of Very High Concern for Authorisation:

#### Legend Section 8: Exposure controls/personal protection

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

Classification procedure Classification according to Regulation (EC) No. 1272/2008 [CLP] Method Used Acute oral toxicity Calculation method Acute dermal toxicity Calculation method Acute inhalation toxicity - gas Calculation method Acute inhalation toxicity - Vapour Calculation method Acute inhalation toxicity - dust/mist Calculation method Skin corrosion/irritation Calculation method Serious eye damage/eye irritation Calculation method Respiratory sensitisation Calculation method Skin sensitisation Calculation method Mutagenicity Calculation method Carcinogenicity Calculation method Reproductive toxicity Calculation method STOT - single exposure Calculation method STOT - repeated exposure Calculation method Chronic aquatic toxicity Calculation method Acute aquatic toxicity Calculation method Calculation method Aspiration hazard Ozone Calculation method

### Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals



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Food Research Journal Hazardous Substance Database International Uniform Chemical Information Database (IUCLID) Japan GHS Classification Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS) NIOSH (National Institute for Occupational Safety and Health) National Library of Medicine's ChemID Plus (NLM CIP) National Library of Medicine's PubMed database (NLM PUBMED) National Toxicology Program (NTP) New Zealand's Chemical Classification and Information Database (CCID) Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme Organisation for Economic Co-operation and Development Screening Information Data Set World Health Organization

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This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 Disclaimer

The information in this safety data sheet (SDS) has been prepared with due care and is true and accurate to the best of our knowledge. The user must determine the suitability of the information for its particular purpose, ensure compliance with existing laws and regulations, and be aware that other or additional safety or performance considerations may arise when using, handling and/ or storing the material. The information in this SDS does not purport to be all inclusive or a guarantee as to the properties of the material supplied, and should be used only as a guide. LGC makes no warranties or representations as to the accuracy and completeness of the information contained herein, shall not be held responsible for the suitability of this information for the user's intended purposes or the consequences of such use, and shall not be liable for any damage or loss, howsoever arising, direct or otherwise.

End of Safety Data Sheet