

Trade name: OSORNO 480**Product no.:** GM 191 C01847 UK**Current version :** 1.0.0, issued: 05.04.2024**Replaced version:** -, issued: -**Region:** GB**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Trade name

OSORNO 480

UFI:

08C0-E0Y4-100H-G95H**1.2 Relevant identified uses of the substance or mixture and uses advised against****Relevant identified uses of the substance or mixture**

Plant protection product

Herbicide

Uses advised against

No data available.

1.3 Details of the supplier of the safety data sheet**Address**

Certis Belchim B.V. (EU)

Stadsplateau 16

3521 AZ Utrecht - Nederland

Telephone no. 0031 (0)30 200 1200

Fax no. 0031 (0)30 310 0241

e-mail info@certisbelchim.com

Advice on Safety Data Sheet

www.certisbelchim.com

1.4 Emergency telephone number

Carechem 24 EU: +44 1235 239670

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture****Classification in accordance with Regulation (EC) No 1272/2008 (CLP)**

Aquatic Acute 1; H400

Aquatic Chronic 1; H410

Eye Irrit. 2; H319

Repr. 2; H361d

STOT RE 2; H373

Classification information

Classification and labelling are based on toxicological studies performed on the product (mixture).

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

2.2 Label elements**Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)****Hazard pictograms**

GHS07



GHS08



GHS09

Signal word

Warning

Trade name: OSORNO 480**Product no.:** GM 191 C01847 UK**Current version :** 1.0.0, issued: 05.04.2024**Replaced version:** -, issued: -**Region:** GB**Hazardous component(s) to be indicated on label:**

mesotrione

Hazard statement(s)

H319 Causes serious eye irritation.
 H361d Suspected of damaging the unborn child.
 H373 May cause damage to organs through prolonged or repeated exposure
 H410 Very toxic to aquatic life with long lasting effects.

Hazard statements (EU)

EUH208 Contains 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction.
 EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

Precautionary statement(s)

P201 Obtain special instructions before use.
 P260 Do not breathe dust/fume/gas/mist/vapours/spray.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P308+P313 IF exposed or concerned: Get medical advice/attention.
 P337+P313 If eye irritation persists: Get medical advice/attention.
 P391 Collect spillage.
 P501 Dispose of contents/ container to a licensed hazardous waste disposal contractor or collection site except for triple rinsed empty clean containers which can be disposed of as non-hazardous waste.

UFI:

08C0-E0Y4-100H-G95H

2.3 Other hazards

This product 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.

PBT assessment

This substance/mixture does not contain components in concentrations equal to or greater than 0.1% which are either classified as persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

SECTION 3: Composition/information on ingredients**3.1 Substances**

Not applicable. The product is not a substance.

3.2 Mixtures**Chemical characterization**

Mesotrione 480 g/l (SC)

Hazardous ingredients

No	Substance name	Additional information	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration %
1	mesotrione		
	104206-82-8 - 609-064-00-X -	Repr. 2; H361d STOT RE 2; H373 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 25.00 - < 50.00 wt%
2	1,2-benzisothiazol-3(2H)-one		
	2634-33-5 220-120-9 613-088-00-6 -	Acute Tox. 4; H302 Skin Irrit. 2; H315 Skin Sens. 1; H317 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	< 0.10 wt%

Full Text for all H-phrases and EUH-phrases: pls. see section 16

Trade name: OSORNO 480**Product no.:** GM 191 C01847 UK**Current version :** 1.0.0, issued: 05.04.2024**Replaced version:** -, issued: -**Region:** GB

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
1	-	-	M = 10	M = 10
2	-	Skin Sens. 1; H317: C >= 0.05%	-	-

No	Route, target organ, concrete effect
1	H373 -; eyes, nervous system; -

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

If medical advice is needed, have product container or label at hand.

After inhalation

Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

After skin contact

Take off contaminated clothing. Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

After eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Rinse AWAY from the unaffected eye. If eye irritation persists: Get medical advice/attention.

After ingestion

Rinse mouth. Call a POISON CENTER or doctor/physician.

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam; Carbon dioxide; Extinguishing powder; Water spray jet

Unsuitable extinguishing media

High power water jet

5.2 Special hazards arising from the substance or mixture

In the event of fire, the following can be released: Carbon dioxide (CO₂); Carbon monoxide (CO)

5.3 Advice for firefighters

Fire-fighting operations, rescue and clearing work under effect of combustion and smoulder gases just may be done with breathing apparatus. Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations. Wear protective clothing.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Refer to protective measures listed in sections 7 and 8. Ensure adequate ventilation.

For emergency responders

Personal protective equipment (PPE) - see section 8.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not allow uncontrolled release into the environment.

Trade name: OSORNO 480**Product no.:** GM 191 C01847 UK**Current version :** 1.0.0, issued: 05.04.2024**Replaced version:** -, issued: -**Region:** GB

6.3 Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). When collected, handle material as described under the section heading "Disposal considerations".

6.4 Reference to other sections

Information regarding waste disposal, see section 13. Information regarding personal protective measures, see section 8. Information regarding safe handling, see section 7.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

No special measures necessary if stored and handled as prescribed. Provide good ventilation at the work area (local exhaust ventilation, if necessary).

General protective and hygiene measures

Keep away from food, drinks and animal feeding stuffs. Wash hands before breaks and after work. Do not eat, drink or smoke during work time. Remove soiled or soaked clothing immediately. Do not inhale vapours.

Advice on protection against fire and explosion

No special measures necessary.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Keep container tightly closed and dry in a cool, well-ventilated place. Keep from freezing. Protect from heat and direct sunlight.

Recommended storage temperature

Value 4 - 35 °C

Requirements for storage rooms and vessels

Containers which are opened must be carefully closed and kept upright to prevent leakage. Keep only in the original container.

Incompatible products

Do not store together with food, beverages and animal feeds. Substances to be avoided, see section 10.

7.3 Specific end use(s)

Industry solution

Always read the label and product information before use.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

No parameters available for monitoring.

8.2 Exposure controls

Appropriate engineering controls

No data available.

Personal protective equipment

Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

Eye / face protection

Safety glasses (EN 166)

Hand protection

Trade name: OSORNO 480**Product no.:** GM 191 C01847 UK**Current version :** 1.0.0, issued: 05.04.2024**Replaced version:** -, issued: -**Region:** GB

In case of intensive contact, wear protective gloves (EN 374). Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Appropriate Material nitrile rubber

Other

Chemical-resistant work clothes. Rubber boots. (EN 13832-3/EN ISO 20345)

Environmental exposure controls

No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

State of aggregation	
liquid	
Form	
liquid	
Colour	
cream colour; grey white; opaque	
Odour	
sweetish	
pH value	
Value	2 - 4
Concentration	1 %
Source	manufacturer
Boiling point / boiling range	
No data available	
Melting point/freezing point	
No data available	
Decomposition temperature	
No data available	
Flash point	
Value	> 100 °C
Source	manufacturer
Ignition temperature	
No data available	
Auto-ignition temperature	
Value	> 400 °C
Source	manufacturer
Oxidising properties	
Non-oxidising according to EC criteria.	
Source	manufacturer
Explosive properties	
The product does not have explosive properties.	
Source	manufacturer
Flammability	
The product is not combustible.	
Source	manufacturer
Lower explosion limit	

Trade name: OSORNO 480**Product no.:** GM 191 C01847 UK**Current version :** 1.0.0, issued: 05.04.2024**Replaced version:** -, issued: -**Region:** GB

No data available

Upper explosion limit

No data available

Vapour pressure

No data available

Relative vapour density

No data available

Relative density

No data available

Density

Value	1,1734 g/ml
	7

Source	manufacturer
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Solubility

No data available

Partition coefficient n-octanol/water (log value)

No data available

Kinematic viscosity

No data available

Particle characteristics

No data available

9.2 Other information**Other information**

No data available.

SECTION 10: Stability and reactivity**10.1 Reactivity**

The product is stable under normal storage and handling conditions.

10.2 Chemical stability

Stable under recommended storage and handling conditions (See section 7).

10.3 Possibility of hazardous reactions

Dangerous reactions are not to be expected when handling product according to its intended use.

10.4 Conditions to avoid

Protect from sun. Extremes of temperatures.

10.5 Incompatible materials

strong acids; strong bases

10.6 Hazardous decomposition products

No hazardous decomposition products known. In case of fire: see section 5.

SECTION 11: Toxicological information**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

Acute oral toxicity	
No	Product Name
1	OSORNO 480
LD50	> 2000 mg/kg
Species	rat
Source	manufacturer
Evaluation/classification	Based on available data, the classification criteria are not met.

Trade name: OSORNO 480**Product no.:** GM 191 C01847 UK**Current version :** 1.0.0, issued: 05.04.2024**Replaced version:** -, issued: -**Region:** GB

Acute dermal toxicity	
No	Product Name
1	OSORNO 480
LD50	> 2000 mg/kg
Species	rat
Source	manufacturer
Evaluation/classification	Based on available data, the classification criteria are not met.

Acute inhalational toxicity	
No	Product Name
1	OSORNO 480
LC50	> 5.05 mg/L
Species	rat
Source	manufacturer
Evaluation/classification	Based on available data, the classification criteria are not met.

Skin corrosion/irritation	
No	Product Name
1	OSORNO 480
Source	manufacturer
Evaluation/classification	Based on available data, the classification criteria are not met.

Serious eye damage/irritation	
No	Product Name
1	OSORNO 480
Source	manufacturer
Evaluation	Causes serious eye irritation
Evaluation/classification	Based on available data, the classification criteria are met.

Respiratory or skin sensitisation	
No	Product Name
1	OSORNO 480
Route of exposure	Skin
Source	manufacturer
Evaluation/classification	Based on available data, the classification criteria are not met.
Route of exposure	respiratory tract
Source	manufacturer
Evaluation/classification	Based on available data, the classification criteria are not met.

Germ cell mutagenicity	
No	Product Name
1	OSORNO 480
Source	manufacturer
Evaluation/classification	Based on available data, the classification criteria are not met.

Reproduction toxicity	
No	Product Name
1	OSORNO 480
Source	manufacturer
Evaluation	Suspected of damaging the unborn child.
Evaluation/classification	Based on available data, the classification criteria are met.

Carcinogenicity	
No	Product Name
1	OSORNO 480
Source	manufacturer
Evaluation/classification	Based on available data, the classification criteria are not met.

STOT - single exposure	
No	Product Name
1	OSORNO 480
Source	manufacturer
Evaluation/classification	Based on available data, the classification criteria are not met.

Trade name: OSORNO 480**Product no.:** GM 191 C01847 UK**Current version :** 1.0.0, issued: 05.04.2024**Replaced version:** -, issued: -**Region:** GB

STOT - repeated exposure	
No	Product Name
1	OSORNO 480
Source	manufacturer
Effects	May cause damage to organs through prolonged or repeated exposure
Evaluation/classification	Based on available data, the classification criteria are met.

Aspiration hazard	
No data available	

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

No data available.

Other information

No data available.

SECTION 12: Ecological information**12.1 Toxicity**

Toxicity to fish (acute)	
No data available	

Toxicity to fish (chronic)	
No data available	

Toxicity to Daphnia (acute)	
No	Product Name
1	OSORNO 480
EC50	10 - 100 mg/l
Duration of exposure	48 h
Species	Daphnia magna
Source	manufacturer

Toxicity to Daphnia (chronic)	
No	Product Name
1	OSORNO 480
NOEC	12.4 mg/l
Species	Daphnia magna
Source	manufacturer

Toxicity to algae (acute)	
No data available	

Toxicity to algae (chronic)	
No	Product Name
1	OSORNO 480
NOEC	4.3 mg/l
Species	Pseudokirchneriella subcapitata

Bacteria toxicity	
No data available	

12.2 Persistence and degradability

Biodegradability	
No	Product Name
1	OSORNO 480
Source	manufacturer
Comments	May cause long-term adverse effects in the environment.

12.3 Bioaccumulative potential

Trade name: OSORNO 480**Product no.:** GM 191 C01847 UK**Current version :** 1.0.0, issued: 05.04.2024**Replaced version:** -, issued: -**Region:** GB

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment**Results of PBT and vPvB assessment**

PBT assessment	This substance/mixture does not contain components in concentrations equal to or greater than 0.1% which are either classified as persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).
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12.6 Endocrine disrupting properties

No data available.

12.7 Other adverse effects

No data available.

12.8 Other information**Other information**

Do not discharge product unmonitored into the environment.

SECTION 13: Disposal considerations**13.1 Waste treatment methods****Product**

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

Packaging

Residues must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

SECTION 14: Transport information**14.1 UN number or ID number****ADR/RID/ADN** UN3082**IMDG** UN3082**ICAO-TI / IATA** UN3082**14.2 UN proper shipping name****ADR/RID/ADN** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Technical name mesotrione**IMDG** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Technical name mesotrione**ICAO-TI / IATA** Environmentally hazardous substance, liquid, n.o.s.
Technical name mesotrione**14.3 Transport hazard class(es)****ADR/RID/ADN - Class** 9

Label 9

Classification code M6

Tunnel restriction code -

Hazard identification no. 90

IMDG - Class 9

Label 9

ICAO-TI / IATA - Class 9

Label 9

14.4 Packing group**ADR/RID/ADN** III

Trade name: OSORNO 480**Product no.:** GM 191 C01847 UK**Current version :** 1.0.0, issued: 05.04.2024**Replaced version:** -, issued: -**Region:** GB

IMDG III
ICAO-TI / IATA III

14.5 Environmental hazards

ADR/RID/ADN Symbol "fish and tree"
IMDG Symbol "fish and tree"
EmS F-A, S-F
ICAO-TI / IATA Symbol "fish and tree"

14.6 Special precautions for user

No data available.

14.7 Maritime transport in bulk according to IMO instruments

Not relevant

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulations****Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)**

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

REACH candidate list of substances of very high concern (SVHC) for authorisation

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES

The product is considered being subject to REACH regulation (EC) 1907/2006 annex XVII.	No 3
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The product contains following substance(s) that are considered being subject to REACH regulation (EC) 1907/2006 annex XVII.

No	Substance name	CAS no.	EC no.	No
1	1,2-benzisothiazol-3(2H)-one	2634-33-5	220-120-9	75
2	mesotrione	104206-82-8	-	75

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances

This product is subject to Part I of Annex I, risk category:	E1
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Other regulations

Adhere to the national sanitary and occupational safety regulations when using this product.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this mixture.

SECTION 16: Other information**Sources of key data used to compile the data sheet:**

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.

Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)

H302 Harmful if swallowed.
 H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.

Trade name: OSORNO 480

Product no.: GM 191 C01847 UK

Current version : 1.0.0, issued: 05.04.2024

Replaced version: -, issued: -

Region: GB

H318 Causes serious eye damage.
H400 Very toxic to aquatic life.

Creation of the safety data sheet

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This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

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