

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

1.1 Product Identifier

Product Name: MEDELO
Product Code: 034-01
UFI Code: QEWC-9YYY-400T-VX0K

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

Product Use: Herbicide

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 (EU) No. 1272/2008

Eye Irritation	Category 2	H319
Reproductive toxicity	Category 2	H361d
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:

H319	Causes serious eye irritation.
H361d	Suspected of damaging fertility or the unborn child
H410	Very toxic to aquatic life with long lasting effects.

Precautionary Phrases:

P102 Keep out of reach of children.
P280 Wear eye protection/face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and if they can be easily removed. Continue rinsing.
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 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

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

The product does not contain ingredients listed in the list drawn up in accordance with Article 59, paragraph 1, which have properties that disrupt the functioning of the endocrine system, nor substances that have properties that disrupt the functioning of the endocrine system in accordance with the criteria set out in Regulation 2017/2100/ EU or in Regulation 2018/605/EU in a concentration of $\geq 0.1\%$ by weight.

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)
Mesotrione	104206-82-8	-	Repr. 2: H361d Aquatic Acute 1; H400 Aquatic Chronic 1; H410	9
Poly(oxy-1,2-ethanediyl), aliphaisodecyl-omegahydroxy-	61827-42-7	-	Acute Tox. 4; H302 Eye Dam. 1; H318 Aquatic Chronic 3; H412	20 – 30
1-octanol	111-87-5	203-917-6	Eye Irrit. 2; H319	5 – 10

Section 4. FIRST AID MEASURES

4.1 Description of first aid measures

General information: Have the product container, label or Safety Data Sheet with you when calling the emergency number, a Poison Control Centre or physician, or going for treatment.
Inhalation: Move to fresh air. If breathing is irregular or stopped, administer artificial respiration. Keep patient warm and at rest. Call a physician or Poison Control Centre immediately.
Ingestion: If swallowed, seek medical advice immediately and show this container or label. Do NOT induce vomiting.
Skin contact: Take off all contaminated clothing immediately. Wash off immediately with plenty of water. If skin irritation persists, call a physician. Wash contaminated clothing before re-use.
Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Immediate medical attention is required.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: None known.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physicians: There is no specific antidote available. Treat symptomatically.

Section 5. FIREFIGHTING MEASURES

5.1 Extinguishing media

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

5.2 Special hazards arising from the substance or mixture

As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion. Exposure to decomposition products may be a hazard to health.

5.3 Advice for firefighters

Special protective equipment for fire fighters: In the event of fire, wear self-contained breathing apparatus. Do not allow run-off from firefighting to enter drains or water courses. Cool closed containers exposed to fire with water spray. Do not use a solid water stream as it may scatter and spread fire.

Section 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Do not breathe vapour/spray. Use personal protective clothing. Avoid contact with the skin, eyes and clothing.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up: Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Clean contaminated surface thoroughly. Clean with detergents. Avoid solvents. Retain and dispose of contaminated wash water.

6.4 Reference to other sections

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

Section 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

No special protective measures against fire required. Avoid contact with skin and eyes. When using do not eat, drink or smoke. For personal protection see section 8.

7.2 Conditions for safe storage, including any incompatibilities

No special storage conditions required. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep away from food, drink and animal feeding stuffs.

7.3 Specific end use(s)

For proper and safe use of this product, please refer to the approval conditions laid down on the product label.

Section 8. EXPOSURE CONTROL/PERSONAL PROTECTION

8.1 Control parameters

Component	Exposure Limit	Value Type	Source
Mesotrione	5 mg/m ³	TWA	Supplier

8.2 Exposure controls

When using this product refer to the label for details. In all other cases, use the following Personal Protective Equipment:

Respiratory protection:	No personal respiratory protective equipment normally required. A particulate filter respirator may be necessary until effective technical measures are installed.
Skin protection:	No special protective equipment required. Select skin and body protection based on the physical job requirements.
Hand protection:	Chemical resistant gloves are not usually required. Select gloves based on the physical job requirements.
Eye protection:	If eye contact is a possibility, wear tight-fitting chemical safety goggles. Follow any site-specific eye protection policies.
Engineering measures:	Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated. The extent of these protection measures depends on the actual risks in use. If airborne mists or vapours are generated, use local exhaust ventilation controls. Assess exposure and use any additional measures to keep airborne levels below any relevant exposure limit. Where necessary, seek additional occupational hygiene advice.
Protective measures:	The use of technical measures should always have priority over the use of personal protective equipment. When selecting personal protective equipment, seek appropriate professional advice. Personal protective equipment should be certified to appropriate standards.

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:	Liquid.
Colour:	Light Brown.
Odour:	Like Octanol.
pH (at 20 °C):	2.2.
Boiling point (°C):	> 100 °C.
Melting point (°C):	< - 5 °C.
Flash Point:	90°C Pensky-Martens c.c.
Evaporation rate:	No data available
Flammability (solid, gas):	No data available
Upper explosion limit /	No data available
Upper flammability limit	
Lower explosion limit /	No data available
Lower flammability limit	
Vapour pressure:	No data available
Relative vapour density:	No data available
Density (at 20 °C):	1.09 g/cm ³ (25 °C)
Solubility(ies)	
Water solubility:	No data available
Solubility in other solvents:	No data available
Partition coefficient:	: No data available
noctanol/ water	

Auto-ignition temperature: 420 °C
Decomposition temperature: No data available

Viscosity
Viscosity, dynamic: 1,990 mPa.s (20 °C)
1,060 mPa.s (40 °C)
Viscosity, kinematic: No data available

9.2 Other Information

9.2.1 Information with regard to physical hazard classes

Surface tension: 29.1 mN/m, 1 % w/v, 21 °C
Particle size: No data available
Oxidising properties: Not Oxidising.
Explosive properties: Not Explosive.

9.2.2 Other safety characteristics

None.

Section 10. STABILITY AND REACTIVITY

10.1 Reactivity

No information available.

10.2 Chemical Stability

Stable under normal conditions

10.3 Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

No decomposition if used as directed

10.5 Incompatible material

No information available.

10.6 Hazardous decomposition products

No hazardous decomposition products are known

Section 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

LD50 oral rat (female):	>2000 mg/kg.
LD ₅₀ dermal rat (male and female):	>2000 mg/kg.
Eye irritation rabbit:	Eye irritation.
Skin irritation rabbit:	No skin irritation.
Sensitisation guinea pig:	Not a skin sensitiser.
Mutagenicity:	Not mutagenic.
Carcinogenicity:	Not carcinogenic.
Developmental Toxicity:	Not teratogenic.
Reproductive Toxicity:	Not reprotoxic.

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

LC₅₀ *Cyprinus carpio* (96 h): 71 mg/L.
EC₅₀ *Daphnia magna* (48 h): 49 mg/L.
ErC₅₀ Green Algae (96 h): >100 mg/L.

EC₁₀ (*Raphidocelis subcapitata*
(freshwater green alga) (96h): 5.8 mg/L

NOEC (*Raphidocelis subcapitata*
(freshwater green alga): 10 mg/L

ErC₅₀ (*Lemna gibba*
(gibbous duckweed) (7d): 0.279 mg/L

EC₁₀ (*Lemna gibba*
(gibbous duckweed) (7d): 0.023 mg/L

NOEC (*Lemna gibba*
(gibbous duckweed) (7d): 0.011 mg/L

Ecotoxicology Assessment

Acute aquatic toxicity: Very toxic to aquatic life.

12.2 Persistence and degradability

Persistent in water, readily biodegradable.

12.3 Bioaccumulative potential

Low potential for bioaccumulation.

12.4 Mobility in soil

Medium to high mobility 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

Waste disposal procedures: Do not contaminate ponds, waterways or ditches with chemical or used container. Do not dispose of waste into sewer. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations.

Contaminated packaging: Empty remaining contents. Triple rinse containers. Empty containers should be taken for local recycling or waste disposal. Do not re-use empty containers.

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

3082.

14.2 UN proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (MESOTRIONE).

14.3 Transport hazard class(es)

9.

14.4 Packing group

III.

14.5 Environmental hazards

Environmentally hazardous, Marine Pollutant.

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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

Not evaluated.

Section 15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulation/legislation specific for the substance or mixture

None.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out on this mixture by the supplier.

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.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H361d	Suspected of damaging fertility or the unborn child
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life 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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