

SAFETY DATA SHEET

Mesoflex 480 SC

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Version 1

Product No LSMH00026-27 H-0001-21630-SO-RAII 21630

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

Product identifier

Mesoflex 480 SC

Synonyms Pure substance/mixture Mesotrione 480 SC Mixture

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

Recommended Use	Herbicide
Uses advised against	No information available

Details of the supplier of the safety data sheet

Supplier Address For further information, please contact	ADAMA SOUTH AFRICA (PTY) LTD Ground Floor, Simeka House The Vineyards Office Estate 99 Jip de Jager Drive Bellville 7530
Email address Emergency Telephone	SDS@ADAMA.COM
Emergency Telephone	+ 27 82 446 8946 + 27 86 155 5777 + 27 21 982 1460

Section 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

Acute aquatic toxicity	Category 1 - (H400)
Chronic aquatic toxicity	Category 1 - (H410)

Label Elements

Hazard pictograms

¥2	
Signal word	Warning
Hazard Statements	H410 - Very toxic to aquatic life with long lasting effects
Precautionary Statements	P102 - Keep out of reach of children P501 - Dispose of contents/ container to an approved waste disposal plant
Other Hazards	

No information available Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

<u>Mixture</u>

.

Chemical Name	Weight-%	CAS No	EC No	GHS Classification	M-Factor
Mesotrione (ISO)	39 - 43	104206-82-8	600-533-4	Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	M=100 M=1

Section 4: FIRST AID MEASURES

First aid measures		
General advice	In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if 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. If symptoms persist, call a physician.	
Self-protection of the first aider	Use personal protective equipment as required.	
Most important symptoms and effe	ects, both acute and delayed	
Symptoms	None known.	
Indication of any immediate medical attention and special treatment needed		
Note to physicians	Treat symptomatically.	
	Section 5: FIRE-FIGHTING MEASURES	

Extinguishing media

Suitable Extinguishing Media

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

Unsuitable Extinguishing Media

No information available.

Special hazards arising from the substance or mixture

No specific hazard known.

Advice for firefighters

In the event of fire, wear self-contained breathing apparatus In the event of fire and/or explosion do not breathe fumes.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions

Use personal protective equipment as required.

For emergency responders

Use personal protection recommended in Section 8.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not allow into any sewer, on the ground or into any body of water. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

Methods and material for containment and cleaning up

Methods for cleaning up

Take up mechanically, placing in appropriate containers for disposal.

Reference to other sections

Other Information

See also section 8,13

Section 7: HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling

Use personal protective equipment as required. Use only with adequate ventilation.

General Hygiene Considerations

When using do not eat, drink or smoke. Wash contaminated clothing before reuse.

Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep container tightly closed in a dry and well-ventilated place.

Specific end use(s)

Risk Management Methods (RMM)

The information required is contained in this Material Safety Data Sheet.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

National occupational exposure limits

Exposure controls	
Engineering Controls	Ensure adequate ventilation, especially in confined areas.
Personal protective equipment	
Eye/face protection	Tight sealing safety goggles.
Hand Protection	Gloves made of plastic or rubber.
Body Protection	Use suitable protective clothing and equipment if required, such as safety goggles certified to EN 166, gloves certified to EN 374, protective boots certified to EN 13832, and/or a water repellent woven coverall with 65% polyester and 35 % cotton.
Respiratory protection	Use only with adequate ventilation.
General Hygiene Considerations	When using do not eat, drink or smoke. Wash contaminated clothing before reuse.
Environmental exposure controls	Local authorities should be advised if significant spillages cannot be contained. Do not allow into any sewer, on the ground or into any body of water. Prevent product from entering drains.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Property	Values	Method	Remarks
Appearance			
Physical state	: Liquid		
Color	: Off-white		
Odor	: Slight		
Odor threshold	: No data available		
рН	: <4		
Melting point/freezing point °C	: -		Not Applicable
Boiling point/boiling range °C	: No data available		
Flash point °C	: > 100		
Evaporation rate	: -		No data available
Flammability (solid, gas)	: Not applicable for liquids		
Upper/lower flammability or	: No data available		
explosive limits			
Vapor pressure kPa	: -		Not Applicable
Vapor density	: No data available		
Relative density	: 1.155 - 1.185		20 °C
Solubility(ies) mg/l	: -		Not Applicable
Partition Coefficient	:		See Section 12 for more
(n-octanol/water) Log Pow			information
Autoignition temperature °C	: No data available		
Decomposition temperature °C	: No data available		
Kinematic viscosity mm2/s 40 °C	: -		No data available
Explosive properties	: No data available		
Oxidizing properties	: No data available		

Other Information

:

Bulk density g/ml Surface tension mN/m

: -

Not Applicable No data available

Section 10: STABILITY AND REACTIVITY

Reactivity

Not available.

Chemical stability

Stable under normal conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to avoid

Heat, flames and sparks.

Incompatible Materials

No information available

Hazardous Decomposition Products

None under normal use conditions.

Section 11: TOXICOLOGY INFORMATION

Information on toxicological effects

Acute toxicity Oral LD50 mg/kg Dermal LD50 mg/kg Inhalation LC50 mg/l/4h Skin corrosion/irritation Serious eye damage/eye irritation Respiratory/skin sensitization	: : : : : : : : : : : : : : : : : : : :	<u>Values</u> > 2000 > 2000 > 5.59 Non-irritating to the skin Not irritating to eyes Not a skin sensitizer	<u>Species</u> Rat Rat Rat Guinea pig	<u>Method</u>	<u>Remarks</u>
Chronic toxicity					
Germ cell mutagenicity Chemical Name Mesotrione (ISO)	:	Not classified			
Carcinogenicity Chemical Name Mesotrione (ISO)	:	Not Carcinogenic			
Reproductive toxicity . Chemical Name Mesotrione (ISO)	:	Not toxic for the reproductive	system		
STOT - single exposure Chemical Name Mesotrione (ISO)	:	Not available			

Chemical Name				
Mesotrione (ISO)	: Not available			
Aspiration hazard Chemical Name				
	: Not available			
Mesotrione (ISO)	: Not available			
S	Section 12: ECO	LOGICAL INFO	ORMATION	
Toxicity				
Aquatic toxicity				
Acute toxicity	Values	<u>Species</u>	Method	Remarks
Fish 96-hour LC50 mg/l	: > 100	Rainbow trout		
Crustacea 48-hour EC50 mg/l	: > 100	Daphnia magna		
Algae 72-hour EC50 mg/l	: 8.85			
Other plants EC50 mg/l	:			
Chronic aquatic toxicity	<u>Values</u>	<u>Species</u>	Method	<u>Remarks</u>
Fish NOEC mg/l	: No data available			
Crustacea NOEC mg/l	: No data available			
Algae NOEC mg/l	: No data available : No data available			
Other plants NOEC mg/l	: No data available			
Terrestrial Toxicity				
Birds Oral LD50 mg/kg				
Mesotrione (ISO)	: > 2000	C. virginianus	EPA-FIFRA 71-1	14 days
Bees Oral LD50 μg/bee				
Chemical Name				
Mesotrione (ISO)	: >11		EPPO 170	
Persistence and degradability				
Abiotic Degradation	Values		Method	<u>Remarks</u>
Water DT50 days				
Chemical Name				
Mesotrione (ISO)	: 3.9 - 6.5		EPA-FIFRA 162-4	
Soil DT50 days				
Chemical Name	0.07			
Mesotrione (ISO)	: 6-27		EPA-FIFRA 163-2	aerobic
Biodegradation				
	NI-4 19 1 1			
Aesotrione (ISO)	: Not readily biodeg	Iradable		
Bioaccumulative potential				
Partition Coefficient (n-octanol/water) Partition	<u>Values</u>		<u>Method</u>	<u>Remarks</u>
Coefficient (n-octanol/water) Log Pow				
Chemical Name				
Mesotrione (ISO)	: < -1.0		EEC A.8	pH 7, 20 ∘ C

Mesotrione (ISO)	:		Not Applicable
Mobility in soil			
Adsorption/Desorption Chemical Name	<u>Values</u>	<u>Method</u>	<u>Remarks</u>
Mesotrione (ISO)	: 109	EPA-FIFRA 163-1	Кос

Results of PBT and vPvB assessment

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

Other adverse effects

No information available.

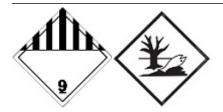
Section 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from residues/unused products	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated packaging	Improper disposal or reuse of this container may be dangerous and illegal.
Other Information	Waste codes should be assigned by the user based on the application for which the product was used.

Section 14: TRANSPORTATION INFORMATION

IMDG/IMO UN/ID No * Proper shipping name Hazard Class Packing Group Marine pollutant Special precautions for user	3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Mesotrione) 9 III Yes
<u>RID/ADR</u> UN/ID No * Proper shipping name Hazard Class Packing Group Environmental hazard Special precautions for user	3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Mesotrione) 9 III Yes
ICAO/IATA UN/ID No * Proper shipping name Hazard Class Packing Group Environmental hazard Special precautions for user Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Mesotrione) 9 III Yes Not Applicable



* 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.

Section 15: REGULATORY INFORMATION

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

Section 16: OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

H302 - Harmful if swallowed

H315 - Causes skin irritation

H318 - Causes serious eye damage

H317 - May cause an allergic skin reaction

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

List of Acronyms

Revision Note

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

Disclaimer

The information provided in this Material 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