



# SAFETY DATA SHEET

## MCW EOS

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Version 1

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R-21782 919739 MCW EOS

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

### Product identifier

## MCW EOS

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

**Recommended Use** Insecticide. Fungicide  
**Uses advised against** No information available

### Details of the supplier of the safety data sheet

**Supplier Address** ADAMA SOUTH AFRICA (PTY) LTD  
Ground Floor, Simeka House  
The Vineyards Office Estate  
99 Jip de Jager Drive  
Bellville 7530

For further information, please contact

**Email address** SDS@ADAMA.COM

### Emergency Telephone

**Emergency Telephone** + 27 82 446 8946  
+ 27 86 155 5777  
+ 27 21 982 1460

## Section 2: HAZARDS IDENTIFICATION

### Classification of the substance or mixture

Aspiration toxicity Category 1 - (H304)  
Skin corrosion/irritation Category 3 - (H316)  
Serious eye damage/eye irritation Category 2A - (H319)

### Label Elements

### Hazard pictograms



**Signal word**

Danger

**Hazard Statements**

H304 - May be fatal if swallowed and enters airways  
 H316 - Causes mild skin irritation  
 H319 - Causes serious eye irritation

**Precautionary Statements**

P102 - Keep out of reach of children  
 P280 - Wear protective gloves/protective clothing/eye protection/face protection  
 P302 + P350 - IF ON SKIN: Gently wash with plenty of soap and water  
 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 P331 - Do NOT induce vomiting  
 P501 - Dispose of contents/ container to an approved waste disposal plant

**Other Hazards**

No information available

**Section 3: COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	Weight-%	CAS No	EC No	GHS Classification	M-Factor
Distillates (petroleum), hydrotreated light paraffinic	98 min.	64742-55-8	265-158-7	Asp. Tox. 1 (H304)	
Surfactants (Polyethylene glycol dodecyl ether)	1-3	9002-92-0		Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318)	

**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. Call a physician or poison control center immediately.

**Skin Contact**

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If symptoms persist, call a physician.

**Eye contact**

In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Keep eye wide open while rinsing. Immediate medical attention is required.

**Ingestion**

Do NOT induce vomiting. If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label. Rinse mouth.

**Self-protection of the first aider**

Use personal protective equipment as required.

**Most important symptoms and effects, both acute and delayed**

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**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 only with adequate ventilation.

**For emergency responders**

Use personal protection recommended in Section 8.

**Environmental precautions**

Prevent further leakage or spillage if safe to do so.

**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 only with adequate ventilation.

**General Hygiene Considerations**

Handle in accordance with good industrial hygiene and safety practice.

**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**                              Suitable chemical resistant gloves (EN 374) also with prolonged, direct contact (recommendation: protection index 6, corresponding > 480 minutes Permeability time (permeation) according to EN 374): e.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm).

**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**              Handle in accordance with good industrial hygiene and safety practice.

**Environmental exposure controls**              No information available.

**Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

**Physical and Chemical Properties**

<u>Property</u>	<u>Values</u>	<u>Method</u>	<u>Remarks</u>
<b>Appearance</b>			
Physical state	: Liquid		
Color	: clear		
Odor	: characteristic		
<b>Odor threshold</b>	: No data available		
<b>pH</b>	: ----		
<b>Melting point/freezing point °C</b>	: ----		
<b>Boiling point/boiling range °C</b>	: ----		
<b>Flash point °C</b>	: 198		
<b>Evaporation rate</b>	: Not Applicable		
<b>Flammability (solid, gas)</b>	: Not Applicable		
<b>Upper/lower flammability or explosive limits</b>	: No data available		
<b>Vapor pressure kPa</b>	: ----		
<b>Vapor density</b>	: No data available		
<b>Relative density</b>	: 0.83		
<b>Solubility(ies) mg/l</b>	: ----		
<b>Partition Coefficient (n-octanol/water) Log Pow</b>	:		See Section 12 for more information

**Autoignition temperature** °C : No data available  
**Decomposition temperature** °C : No data available  
**Kinematic viscosity** mm<sup>2</sup>/s 40 °C : 12.6  
**Explosive properties** : No data available  
**Oxidizing properties** : No data available

**Other Information**

**Bulk density** g/ml :  
**Surface tension** mN/m : Not Applicable

**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**

	<u>Values</u>	<u>Species</u>	<u>Method</u>	<u>Remarks</u>
Oral LD50 mg/kg	: > 5000			
Dermal LD50 mg/kg	: > 5000			
Inhalation LC50 mg/l/4h	: ---			
Skin corrosion/irritation	:			
Serious eye damage/eye irritation	:			
Respiratory/skin sensitization	:			

**Chronic toxicity**

**Germ cell mutagenicity**

**Carcinogenicity**

**Reproductive toxicity**

**STOT - single exposure**

**STOT - repeated exposure**

Aspiration hazard

**Section 12: ECOLOGICAL INFORMATION**

Toxicity

**Aquatic toxicity**

<b>Acute toxicity</b>	<u>Values</u>	<u>Species</u>	<u>Method</u>	<u>Remarks</u>
Fish 96-hour LC50 mg/l	: ----	Rainbow trout	OECD 203	
Crustacea 48-hour EC50 mg/l	:	Daphnia magna	OECD 202	
Algae 72-hour EC50 mg/l	:	D. Subspicatus	OECD 201	
Other plants EC50 mg/l	:	Lemna	OECD 221	7 days

<b>Chronic aquatic toxicity</b>	<u>Values</u>	<u>Species</u>	<u>Method</u>	<u>Remarks</u>
Fish NOEC mg/l	:			
Crustacea NOEC mg/l	:			
Algae NOEC mg/l	:			
Other plants NOEC mg/l	:			

**Terrestrial Toxicity**  
Birds Oral LD50 mg/kg

Bees Oral LD50 µg/bee

Persistence and degradability

<b>Abiotic Degradation</b>	<u>Values</u>	<u>Method</u>	<u>Remarks</u>
Water DT50 days			

Soil DT50 days

Biodegradation

Bioaccumulative potential

<b>Partition Coefficient (n-octanol/water) Partition Coefficient (n-octanol/water) Log Pow</b>	<u>Values</u>	<u>Method</u>	<u>Remarks</u>

Bioconcentration factor (BCF)

Mobility in soil

<b>Adsorption/Desorption</b>	<u>Values</u>	<u>Method</u>	<u>Remarks</u>

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.

<b>Contaminated packaging</b>	Improper disposal or reuse of this container may be dangerous and illegal.
<b>Other Information</b>	Waste codes should be assigned by the user based on the application for which the product was used.

## Section 14: TRANSPORTATION INFORMATION

### IMDG/IMO

<b>UN/ID No *</b>	Not regulated
<b>Proper shipping name</b>	Not regulated ( )
<b>Hazard Class</b>	Not regulated
<b>Packing Group</b>	Not regulated
<b>Marine pollutant</b>	Not regulated
<b>Special precautions for user</b>	

### RID/ADR

<b>UN/ID No *</b>	Not regulated
<b>Proper shipping name</b>	Not regulated ( )
<b>Hazard Class</b>	Not regulated
<b>Packing Group</b>	Not regulated
<b>Environmental hazard</b>	Not regulated
<b>Special precautions for user</b>	

### ICAO/IATA

<b>UN/ID No *</b>	Not regulated
<b>Proper shipping name</b>	Not regulated ( )
<b>Hazard Class</b>	Not regulated
<b>Packing Group</b>	Not regulated
<b>Environmental hazard</b>	Not regulated
<b>Special precautions for user</b>	
<b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	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

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

### **List of 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

**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**