



# **SAFETY DATA SHEET**

# ACCORDING TO THE SOUTH AFRICAN REGULATIONS FOR HAZARDOUS CHEMICAL AGENTS - 2021

# **AQUA-WET**

Revised on / Version: 01/08/2022 / 0005 PAGE 1 OF 12

Replaces Revision of / Version: 15/07/2019 / 0004

# **SECTION 1: Product and Company Identification**

Identification of the product/preparation

Product Name:	Aqua Wet.
Trade Name/Synonyms:	Aqua Wet.
Registration Number:	L6204
Product Description and Type:	A water-soluble non-ionic wetting agent for use with most agricultural sprays to improve the wetting and sticking properties of sprays to plant foliage.

**Active Ingredient** 

Formula:	Fatty Alcohol Ethoxylate	
CAS Number:	68439-50-9	

**Supplier** 

Company Name: Rolfes Agri (Pty) Ltd Address: 288 Mundt Street

Waltloo Pretoria South Africa

Phone Number: +27(0)12 803 0145 E-mail Address: info@rolfesagri.co.za

**Emergency Phone Numbers** 

Nature of Emergency	Emergency Operator	Telephone Number
Office Hour Poisoning	Rolfes Agri (Pty) Ltd	+27 (12) 803 0145
Helpline		
Spill Response and	Spill Tech, Oil and	+ 27 (0) 86 100 0366
Transport Incidents	chemical pollution control	+ 27 (0) 83 253 6618
-	-	www.spilltech.co.za



# Relevant identified uses of the product and uses advised against

For use in Agriculture and use as per the product label.

### **SECTION 2: Hazards Identification**

#### Classification of the substance or mixture

This product is classified as hazardous according to the criteria in South Africa - GHS classification and labelling of chemicals and the Regulations for Hazardous Chemical Agents 2021.

#### **Classification:**

Hazard class	Category	Hazard Statement Number
Skin Corrosion/Irritant	2	H315
Serious Eye Damage/Eye Irritation	2	H319
Hazardous to the Aquatic Environment, Acute Hazard	1	H400
Hazardous to the aquatic environment, long-term hazards	3	H412

#### **Label Elements**

South Africa. GHS classification and labelling of chemicals and the Regulations for Hazardous Chemical Agents 2021.

#### **Pictograms:**





#### **Signal Word:**

Warning

#### **Hazard Statements:**

Statement Number	Hazard Statement
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H412	Harmful to aquatic life with long lasting effects.

#### **Precautionary Statements:**

#### General -

Ochiciai		
Statement	Precautionary statement	
number		
P101	P101: If medical advice is needed, have container or label at hand.	
P102	P102: Keep out of reach of children.	
P103	P103: Read carefully and follow all instructions.	

#### Prevention -

	Precautionary Statement
Number	
P264	Wash affected area thoroughly after handling.

#### Aqua-Wet

P271:	Use only outdoors or in a well-ventilated area.		
P273:	Avoid release to the environment.		
P280:	Wear face shield and safety goggles when handling liquids		

#### Response -

Statement	Precautionary Statement
Number	
P321:	Specific treatment: see note to physician on this label.
P338:	Remove contact lenses, if present and easy to do so. Continue rinsing.
P302 + P352:	IF ON SKIN, wash with plenty of water
P337+ P317:	If eye irritation persists: Get medical help.
P334:	Immerse in cool water (Or wrap in wet bandages)
P332 +P317:	If skin irritation occurs, get medical help
P362 + P364:	Take off contaminated clothing and wash before reuse.
P335:	Brush off loose particles from skin
P305 + P351 +	IF IN EYES; rinse cautiously with water for several minutes. Remove contact
P338:	lenses, if present and easy to do so. Continue rinsing.

## Disposal -

Statement Number	Precautionary Statement
P501:	Empty all pesticides from the container by placing it upside down over the spray tank and holding it there for at least 30 seconds. Puncture the rinsed container to render it useless and send to a recycler. Do not use empty containers for any other purpose.

#### **Other Hazards**

None.

# **SECTION 3: Composition/Information on Ingredients**

#### Mixture:

Common Name:	Fatty alcohol ethoxylate	
IUPAC/Chemical Name: 2-butoxyethanol		
Chemical Family:		
Formulation:	Total active ingredients 900 g/l	

# Ingredients with Hazard Concerns (GHS) According to UN GHS criteria.

Hazardous	CAS Number	Weight - %	GHS Classification
Component			
Alcohol	68439-50-9	76.0	Aquatic Acute 1 M factor=1
ethoxylate (7-9			Aquatic Chronic 3
EO) (wetter)			
Ethylene mono	111-76-2	10.0	Acute Category 4 (Oral)
butyl ether			Acute Category 4 (Dermal)
(wetter)			Acute Category 4 (Inhalation)
			Skin irritation Cat 2
			Eye irritation Cat 2

Aqua-Wet

**NOTE:** There are no other ingredients present according to the current knowledge of the supplier (condisering their concentrations present in the product) that are classified as hazardous to health or the environment and that cause/contribute to the correct GHS classification of this Product. These ingredients are therefore, in terms of the South African Hazardous Chemical Agent Regulations 2021; Regulation 14(b), not listed.

## **SECTION 4: First-Aid Measures**

**Description of First-aid Measures** 

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General Advice	The symptoms resulting from direct exposure to the product could appear a while after exposure. If persistent discomfort, seek medical attention. Provide this SDS to medical personnel for treatment. Immediately remove contaminated clothing and remove the affected person from the contamination area. Keep the person warm, calm and covered up. First Aid personnel should pay attention to their own safety.
Eye Contact	If eye irritation persists: Get medical help. , while holding the eyelids apart. Check for and remove contact lenses if easy to do so. Continue rinsing. Obtain medical attention if irritation occurs and persists.
Skin Contact	IF ON SKIN, wash with plenty of water under safety showers or saline solution for at least 20 - 30 minutes. Remove all contaminated clothing and shoes. Contact a poison control centre or medical practitioner if irritation occurs or persists. Wash contaminated clothing before re-use.
Inhalation	Remove the affected victim from exposure to an area with fresh air as a precaution. If not breathing, administer artificial respiration. With the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Obtain immediate medical attention.
Ingestion	If conscious, rinse mouth thoroughly with water. Never give anything by mouth to an unconscious or convulsing person. Do not induce vomiting unless directed to do so by a medical professional. If spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in of vomits, rinse mouth and administer more water.

#### Most important symptoms/effects, acute and delayed

Symptoms of exposure to the product include: Eye and Skin irritation.

#### Indication of any immediate medical attention and special treatment needed

**Notes to physician:** Rinse eyes with saline solution for 20-30 minutes.

**Specific treatments:** Treat symptomatically and supportively.

# **SECTION 5: Firefighting Measures**

Suitable (and unsuitable)	For small fires, use carbon dioxide, dry chemical, alcohol
extinguishing media	resistant foam, or water spray. Do not use water jets.
Specific hazards arising	Fires involving the product may produce irritating or
from the chemical	poisonous vapours, mists or other products of
including thermal	combustion.
decomposition products	

Special protective	Firefighters must wear emergency equipment including
equipment and precautions	positive pressure self-contained breathing apparatus with
for fire-fighters	a full-face mask. Remove unaffected containers from fire
	area if possible.
	Act in accordance with the site's Internal Emergency Plan
Additional provisions	and the Workplace Specific Procedures for actions to be
	taken after an accident or other emergencies.

## **SECTION 6: Accidental Release Measures**

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

Ventilate the area of the spill or leak, especially when in confined areas.

Do not touch or walk through spilled material as slippery when spilt.

Contain spills if it can be done without risk and clean-up immediately.

Wear appropriate protective clothing recommended in Section 8 of the SDS.

#### **Environmental Precautions**

Prevent spillage or further leakage if safe to do so.

Do not allow the spilt product to enter water courses and drains and avoid contact with soil.

Do not allow the spilt product to spread to other areas - keep the spilt material contained and

isolated.

Report spills and releases as required to appropriate authorities if the spilt product has caused environmental pollution (sewers, water ways, soil or air).

#### Methods for cleaning up

**For small spills**, soak up with damp earth or sand, or other non-Combustible absorbent material. Place into a labelled waste container subsequent reclamation or disposal. Keep the wash water out of drains, sewers and waterways.

**For large spills**, contain the spillage with absorbent material. Sweep up with absorbent material, contain and collect spilt product in suitable containers for proper disposal. Keep the wash water out of drains, sewers and waterways.

#### Reference to other sections

See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

# **SECTION 7: Handling and Storage**

#### Precautions for safe handling

Always provide good ventilation in the work area. Prevent contact with eyes, skin and clothing. Do not breathe in dust/vapours/spray mists. Wear protective clothing and equipment during handling as described in Section 8 of the SDS.

Do not eat or drink during use. Wash the hands and face thoroughly with soap after handling. Keep containers closed when not in use. Do not permit smoking in use or storage areas.

Locate emergency showers and eye-rinsing facility near the work/handling area. Maintain good normal industrial hygiene and housekeeping practices in areas where the product is used/handled.

#### Conditions for safe storage, including any incompatibilities

Always store locked up and keep containers tightly closed when not in use. Store in a cool, dry and well ventilated place, out of direct sunlight. Check storage containers regularly for leaks and protect containers from physical damage. Store in the original container, avoid cross contamination with other agricultural products. Keep out of reach of children, uninformed persons and animals. Do not contaminate water, food, or feed by storage or disposal. It is recommended to have appropriate spill control kits equipped with absorbent material in close proximity to storage areas (see Section 6).

#### Specific end use(s)

Use as directed. Use original container.

# **SECTION 8: Exposure Controls and Personal Protection**

#### Occupational exposure limits- restricted limits for hazardous chemical agents:

Component	Туре	Control Parameter	Update	Basis
	OEL-eight	N/A ppm	2021	South African
Not Applicable	hour TWA			RELs*
Not Applicable	OEL-	N/A ppm	2021	South African
	STEL/C			RELs*

\*REL: Recommended Exposure Limit.

OEL-eight hour TWA: Occupational Exposure Limit- Time Weighted Average.

Calculated over an eight-hour working day, for a five-day

working week.

OEL-STEL/C: Occupational Exposure Limit – short Term Exposure Limit

/Ceiling Limit. Peak airborne concentration determined over the shortest analytically practicable period of time,

which does not exceed 15 minutes.

National Biological Exposure Indices (BEIs) for hazardous chemical agents:

Component	Sample Matrix	Sample Time	Value
2-Butoxyethanol	urine	End of shift	200 mg/g creatinine.

#### **Appropriate engineering controls**

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

**Personal Protective Equipment** 

Respiratory Protection:	Respiratory protection selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.  Use a properly fitted and well maintained particulate filter respirator, complying with an approved standard. Respirator selection and use should be based on contaminant type, form and concentration.  For emergency conditions, use an approved positive-pressure self-contained breathing apparatus.
Skin and Hand Protection:	Select skin and hand protection based on the task being performed and the risks involved with the task. The gloves should be replaced immediately in case of damage or signs of wear. The personal protective clothing must be properly fitted and well maintained.

Eye/Face Protection:	Select safety eye/face protection based on the task being performed and the risks involved with the task. Wear tightly fitted and well maintained safety eyewear compliant with an approved standard.
General Safety and Hygiene Measures:	Wash the hands and/or face before breaks, eating, smoking or using the lavatory and at the end of the shift/working period. Eye wash fountains and safety showers should be available and easily accessible. Wash contaminated clothing before reuse.

#### **Environmental exposure controls**

In accordance with the local legislation for the protection of the environment it is recommended to avoid environmental spillage or releases of both the product and its container.

# **SECTION 9: Physical and Chemical Properties**

Data applicable to mixture.

	Appearance/physical state	Liquid.
Appearance	Odour characteristics	Clear colorless.
	Colour	Lightly alcohol odour.
	Boiling point (°C)	>100 °C
Volatility	Vapour pressure (Pa)	Not Applicable
	Evaporation Rate at 20 °C	Not Applicable
	Relative density (kg/m³, relative density of	0.97
	water =1)	
	Solubility in water (g/100mL)	Soluble in water.
Product	Decomposition temperature (°C)	Not Applicable
Description	Melting point/freezing point (°C)	Not Applicable
Description	pH	5.42 (4.67 of 1% aqueous
		solution – distilled water)
	Density/relative density (g/cm <sup>3)</sup>	0.97
	Particle characteristics	Not Applicable
	Flammable (Y/N)	Not Applicable
Flammability	Flash point (°C)	Not Applicable
	Flammable limits-LEL	Not Applicable
	Auto-ignition Temperature (°C)	Not Applicable

#### **Other Hazard Information**

None known.

## **SECTION 10: STABILITY AND REACTIVITY**

#### Reactivity

The product is stable under normal conditions.

#### **Chemical Stability**

Stable under normal ambient conditions of use, storage and transport.

#### **Possibility of Hazardous Reactions**

None known under conditions of normal use.

#### **Conditions to Avoid**

Avoid extreme temperatures ( >50°C). Keep away from heat and ignition sources.

#### **Incompatible Materials**

Incompatable with: Avoid strong oxidizing agents and acids.

#### **Hazardous Decomposition Products**

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# **SECTION 11: Toxicological Information**

#### Information on likely routes of exposure

#### Toxicokinetics, metabolism and distribution:

Non-human toxicological data: No Information available.

Method: No Information available. Dosage: No Information available.

Routes of administration: No Information available.

Results: No Information available. Absorption: No Information available. Distribution: No Information available. Metabolism: No Information available. Excretion: No Information available.

#### Information on toxicological effects:

Acute toxicity:

<u>Acute oral toxicity</u>: Does not meet the GHS Classification criteria. <u>Acute dermal toxicity</u>: Does not meet the GHS Classification criteria. Acute inhalation toxicity: Does not meet the GHS Classification criteria.

Skin corrosion/irritation: Ethylene mono butyl ether.

Warning! According to the harmonised classification and labelling (ATP15) approved by the European Union, this substance causes skin irritation.

Skin irritation Category 2.

Serious eye damage/irritation: Ethylene mono butyl ether.

Warning! According to the classification provided by companies to ECHA in REACH registrations this substance causes serious eye irritation.

Eve irritation Category 2.

Respiratory or skin sensitization: Does not meet the GHS Classification criteria.

Germ cell mutagenicity: Does not meet the GHS Classification criteria.

Carcinogenicity: Does not meet the GHS Classification criteria.

Reproductive toxicity: Does not meet the GHS Classification criteria.

STOT-single exposure: Does not meet the GHS Classification criteria.

STOT-repeated exposure: Does not meet the GHS Classification criteria.

Aspiration hazard: Does not meet the GHS Classification criteria..

# **SECTION 12: Ecological Information**

### **Ecotoxicity**

Agua Wet is harmful to aquatic life with long lasting effects.

The product will not enter the environment under normal use if used as indicated on the label. Care should however be taken to avoid any additional release to ground water or sewage systems (even in small quantities), for example through inappropriate disposal.

No eco-toxicological data is available for the formulated product. This ecological assessment is based on data available for the active ingredient of the product

Substance

Crustacea (Daphnia magna): 0.53 mg/L for 48h.

Fish: 1.2 mg/L for 96h.

Algae and aquatic plants: 0.975 for 72h.

#### Toxicity to other species

Birds: No information available. Bees: No information available.

Earthworm (Eisenia fetida): >1000 mg/kg.

#### Other Environmental and Adverse Effects:

Persistence and Degradability: Fatty Alcohol Ethoxylate.

Readily biodegradable.

#### Bioaccumulative Potential: Fatty Alcohol Ethoxylate.

BCF (Aquatic Species): Alcohol ethoxylates are not expected to bioaccumulate due to a rapid biotransformation and excretion.

#### **Mobility in Soil:**

No data available.

#### Other Adverse Effects:

No known significant effects or critical hazards.

# **SECTION 13: Disposal Considerations**

#### Waste handling and disposal

Dispose product related waste in accordance with all local regulations and prevent the contamination of water, food, or feed by storage or disposal of the waste.

#### **General container handling**

Empty all pesticides from the container by placing it upside down over the spray tank and holding it there for at least 30 seconds. Puncture the rinsed container to render it useless and send to a recycler. Do not use empty containers for any other purpose.

# **SECTION 14: Transport Information**

	Land Transport (ADR/RID)	Inland Waterways (AND/ADNR)	See Transport (IMDG)	Air Transport (ICAO-TI/IATA- DGR)
UN Number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN Proper Shipping Name	-	-	-	-
Transport Hazard Class	-	-	-	-
Transport Hazard Class	-	-	-	•

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Pictogram				
Transport	-	-	-	-
Subsidary				
Class				
Packaging	-	-	-	-
Group				
Environmental	-	-	-	-
Hazard				

Not classified as a dangerous good.

# **SECTION 15: Regulatory Information**

#### **South Africa**

Regulations for Hazardous Chemical Agents – 2021 – SA Occupational Health and Safety Act. - Handling, labelling and Safety Data Sheets for hazardous and GHS classified substances and mixtures. Occupational Exposure Limits.

Hazardous Substances Act, 1973 (Act No.15 of 1973) - Requirements on the prohibition and control of the importation, manufacture, sale, use, operation, application, modification, disposal or dumping of hazardous substances.

Occupational Health and Safety Act No. 85 of 1993.- Occupational Health and Safety Standards for employers and users working with and around hazardous chemical substances.

National Road Traffic Act, 1996 (ACT NO. 93 of 1996). - The identification and classification of dangerous goods for transport by road and rail modes.

#### **Botswana**

Pesticides and Toxic Substances Regulations. 1994 (2006) - Control and management of pesticides and other toxic substances.

Environmental and Pollution Control Act. 1990 - Hazardous waste disposal, hazardous substances, pesticides and effluent waste water/discharge.

#### Namibia

Labour Act 11 of 2007 - Hazardous substances classification, labelling, Chemical Safety Data Sheets and Occupational Exposure Limits. Notification of the use of carcinogens and other controlled substances.

Regulations relating to the Health and Safety of Employees at Work Government Notice 156 of 1997. Labour Act 11 of 2007 schedule, item 2(2). - Occupational Health and Safety Standards for employers and users working with and around hazardous chemical substances.

#### **SECTION 16: Other Information**

#### Indication of changes

Alignment to the GHS.

#### Relevant classification and H-Statements (Number and full text):

Skin Corrosion/Irritation- category 2 H315 Causes skin irritation

Serious Eye Damage/Eye Irritation-Category 2

H319: Causes serious eye irritation

Hazardous to the Aquatic Environment, Acute Hazard- Category 1

H400: Very toxic to aquatic life

Hazardous to the aquatic environment, long-term hazards- Category 3

H412: Harmful to aquatic life with long lasting effects

#### **Key to Abbreviations**

	751 O TIALIO 110
AND	European Provisions concerning the International Carraige od Dangerous
	Goods by inland Waterways
ADR	The European Agreement concerning the International Carraige of Dangerous
	Goods by Road
ATE	Acute Toxicity Estimate
COD	Chemical Oxygen Demand
GHS	Globally Harmonised System of Classification and Labelling of Chemicals
IATA	International Air Transport Association
ICAO	International Civil Aviation Organisation
IMDG	International Maritime Dangerous Goods
Log <sub>Pow</sub>	Logarithm of the octanol/water partition coefficient
LD50	Lethal Dose 50
LC50	Lethal Concentration 50
RID	The Regulations concerning the International Carraige of Dangerous Goods by
	Rail
SDS	Safety Data Sheet

#### **Notice to Reader**

United Nations

UN

The information contained in this Safety Data Sheet relate only to the specific product and do not relate to the use of the product in combination with any other product or process. Information in the SDS is supplied to the best of ROLFES AGRI (PTY) LTD's knowledge and are believed to be current and correct as of the date on this SDS. All reasonable efforts were exercised to compile this SDS in accordance with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

The SDS only provides information applicable to the health, safety and environmental hazards of this product at the date of issue in order to facilitate the safe use, handling, storage and transport of this product and does not replace any product information or product specifications.

It is not possible for ROLFES AGRI (PTY) LTD to anticipate or control all conditions under which this product may be used, handled, stored or transported. The obligation of the user, receiver, handler or transporter remains to review the content of the SDS prior to potentially exposing persons/employees to the product and to consider any risks that may associated with the hazards of the product during use, handlings, storage or transportation. Appropriate health, safety and environmental protection risk mitigating measures must be in place and such information must be communicated to all persons that might be involved with and exposed to this product.

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This document is intended only as a guide to the appropriate precautionary handling

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and use of the product by a properly trained person. Individuals receiving the information must exercise their independent judgement in determining its appropriateness for a particular purpose. When this product is sold, risk passes to the purchaser in accordance with the specific terms and conditions of sale. Accordingly, Rolfes Agri Proprietary Limited will not be responsible for damages resulting from use or reliance upon this information.

**END OF SAFETY DATA SHEET**