SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: NO MORE FOAM
Other identifier: NO MORE FOAM
Recommended use: Adjuvant
Restrictions on use: Agriculture
Supplier **Rolfes Agri (Pty) Ltd**
288 Mundt Street
Waltloo
Pretoria, South Africa
Telephone: +27(0)12 803 0145
E-mail Address: info@rolfesagri.co.za
Emergency Phone Numbers:
National Poison Centre:
Tygerberg Poison Information Centre:
Tel: +27 861 555 777
Spill Response and Transport Incidents
Spill Tech, 086 100 0366, www.spilltech.co.za
Oil and chemical pollution control 083 253 6618

2. HAZARDS IDENTIFICATION

GHS classification and labelling of chemicals and the Regulations for Hazardous Chemical Agents - 2021.		
Hazard class	**Hazard category**	**H-statement**
Not classifiable in terms of GHS		

The most important adverse effects:
Physiochemical effects: None known.

Human health effects: None known.

Pictograms: No Pictograms.

Signal word: No signal word.

Hazard statements: Not Hazardous.

Precautionary statements:
P101: If medical advice is needed, have product container or label at hand.
P102: Keep out of reach of children.
P103: Read carefully and follow all instructions.
P501: Empty all contents 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.

Special labelling of certain mixtures:
None known.
Other hazards:

None known.
Toxicity:
Classification according to GHS: Not Classified.

3. COMPOSITION / INFORMATION ON INGREDIENTS

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

Component	CAS Number	Conc. (m/v) %	GHS Classification
Polyethylene glycol	25322-68-3	>= 0.9 – <= 1.1 %	Not Classified

4. FIRST AID MEASURES

General Advice: First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). If potential for exposure exists refer to Section 8 for specific personal protective equipment.

Eye contact: Immediately flush eyes with water; remove contact lenses, if present, after the first 5 minutes, then continue flushing eyes for at least 15 minutes. Obtain medical attention without delay, preferably from an ophthalmologist. Suitable emergency eye wash facility should be immediately available.
Skin contact: Wash off with plenty of water and non-abrasive soap.
Inhalation: No emergency medical treatment necessary.
Ingestion: If exposed or concerned, rinse mouth with water. No emergency medical treatment necessary.

Most important symptoms/effects, acute and delayed: Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicology Information.
Notes to physician: No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

5. FIRE FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media:

Use Alcohol-resistant foam. Carbon dioxide (CO2). Dry chemical. Water spray.

Unsuitable extinguishing media: None known.

Specific hazards arising from the chemical including thermal decomposition products: Carbon oxides. Silicon oxides.

Special protective equipment and precautions for fire-fighters: Firefighters must wear emergency equipment including positive pressure self-contained breathing apparatus with a full-face mask. Remove unaffected containers from fire area if possible.

Additional provisions: Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflammation, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

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: Do not release the product to the aquatic environment above defined regulatory levels Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.

Methods for cleaning up:

For small spills, Soak up with inert absorbent material. Clean up remaining materials from spill with suitable absorbent. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.

For large spills, For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. See sections: 7, 8, 11, 12 and 13.

7. HANDLING AND STORAGE REQUIREMENTS

Precautions for safe handling

Avoid inhalation of vapour or mist. Take care to prevent spills, waste and minimize release to the environment. Handle in accordance with good industrial hygiene and safety practice. CONTAINERS MAY BE HAZARDOUS WHEN EMPTY. Since emptied containers retain product residue follow all (M)SDS and label warnings even after container is emptied.

Use only with adequate ventilation. See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.

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.

Do not store with the following product types: Strong oxidizing agents.

Unsuitable materials for containers: None known.

Specific end use(s)

Use as directed. Use original container.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Control parameters

If exposure limits exist, they are listed below. If no exposure limits are displayed, then no values are applicable.

Component	Regulation	Type of listing	Value
Polyethylene glycol	US WEEL	TWA aerosol	10 mg/m3

Exposure controls

Engineering controls: Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations.

PERSONAL PROTECTIVE EQUIPMENT:

Respiratory protection: Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. For most conditions no respiratory protection should be needed; however, if discomfort is experienced, use an approved air-purifying respirator. The following should be effective types of air-purifying respirators: Organic vapor cartridge with a particulate pre-filter.

Skin and Hand Protection: Use gloves chemically resistant to this material when prolonged or frequently

repeated contact could occur. Examples of preferred glove barrier materials include Butyl rubber. Neoprene. Nitrile/butadiene rubber ("nitrile" or "NBR"). Ethyl vinyl alcohol laminate ("EVAL"). Polyvinyl chloride ("PVC" or "vinyl"). Natural rubber ("latex"). Avoid gloves made of: Polyvinyl alcohol ("PVA"). NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier.
Eye/Face Protection: Use safety glasses (with side shields).
Other protection: Wear clean, body-covering clothing.
Hygiene Measures: Wash the hands and 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance/physical state: Liquid.
Odour: Slight odour.
Colour: Off-white.
Boiling Point (760 mmHg): >100°C (> 212°F)
Vapour Pressure (mm Hg): No data available.
Evaporation Rate: No data available.
Relative Vapour Density: No data available.
Partition coefficient n-octanol/water: No data available.
Solubility in water: No data available.
Decomposition temperature: No data available.
Melting point/freezing point: No data available.
pH: 3 – 5.5
Density/relative density(g/cm3): 1
Flammability: Not applicable.
Flash Point: closed cup >100 °C (212 °F)
Flammable limits-LEL: No data available.
Upper/Lower flammability limit: No data available.
Auto-ignition temperature: No data available.
Kinematic Viscosity: 3300 cSt at 25 °C (77 °F)
Explosive properties: Not explosive.
Oxidizing properties: The substance or mixture is not classified as oxidizing.
Molecular weight: No data available.
Particle size: Not applicable.
Surface tension: 23.3 dyn/cm 1024 F - SURFACE TENSION - WILHELMY PLATE - 0.5% SOLUTION AT 25°C.

10. STABILITY AND REACTIVITY

Reactivity: Not classified as a reactivity hazard.
Chemical Stability: Stable under normal conditions.
Possibility of Hazardous Reactions: Can react with strong oxidizing agents.
Conditions to Avoid: None known.

Incompatible Materials: Avoid contact with oxidizing materials.

Hazardous Decomposition Products: Decomposition products can include and are not limited to: Formaldehyde. Irritating fumes. Aldehydes. Alcohols. Ethers. Organic acids. Acetaldehyde.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY: Calculated.
Acute Toxicity Oral LD_{50}: >5000 mg/kg Estimated.
Acute Toxicity Dermal LD_{50}: >2000 mg/kg Estimated.
Acute Toxicity Inhalation: Not classified.
Skin Corrosion/Irritation: Not classified.
Eye Damage/Irritation: Not classified.
Skin Sensitization: Not classified.
Respiratory Sensitization: Not classified.
Germ cell mutagenicity: Not classified.
Carcinogenicity: Not classified.
Reproductive toxicity: Not classified.
Specific target organ toxicity – single exposure: Not classified.
Specific target organ toxicity – repeated exposure: Not classified.
Aspiration hazard: Not classified.
Symptoms related to the physical, chemical, and toxicological characteristics.
No information available.

12. ECOLOGICAL INFORMATION

ECOTOXICITY:
Acute toxicity to fish
Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50/EL50/LL50 >100 mg/L in the most sensitive species tested).
LC50, Cyprinodon variegatus (sheepshead minnow), semi-static test, 96 Hour, > 1,000 mg/l, OECD Test Guideline 203.

Acute toxicity to aquatic invertebrates
EC50, Acartia tonsa, 48 Hour, 629 mg/l.

Acute toxicity to algae/aquatic plants
ErC50, Skeletonema sp., Growth inhibition, 72 Hour, > 1,000 mg/l, ISO 10253.

Long-term (chronic) aquatic hazard Chronic toxicity to fish

Based on information for component(s):
NOEC, Fish, 0.1 - 1 mg/l.

Toxicity to soil-dwelling organisms
LC50, Corophium volutator (sandhopper), >10000 mg/kg

ENVIRONMENTAL EFFECTS:
Persistence and degradability
Biodegradability: For this family of materials: Based on stringent OECD test guidelines, this material cannot be considered as readily biodegradable; however, these results do not necessarily mean that the material is not biodegradable under environmental conditions.
10-day Window: Fail
Biodegradation: 48%
Exposure time: 28 d
Method: OECD Test Guideline 301D or Equivalent.
Theoretical Oxygen Demand: 1.67 - 1.77 mg/mg
Chemical Oxygen Demand: 1.81 mg/mg
Bio-accumulative Potential:
Bioaccumulation: For this family of materials: No bioconcentration is expected because of the relatively high-water solubility.
Mobility in soil: No data available.
Results of PBT and vPvB assessment: No data available.
Other adverse effects: No data available.

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. The product container/bags may be taken to a registered waste disposal site or incineration plant.
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.

14. TRANSPORT INFORMATION

	Land Transport (ADR/RID)	Inland Waterways (AND/ADNR)	Sea 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 Pictogram	-	-	-	-
Packing Group	-	-	-	-

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation for the mixture.

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 wastewater/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.

16. OTHER INFORMATION

Packaging: Packed in 500 ml, 1; 5; 20; 210 L plastic containers or plastic bottles and labelled according to South African regulations and guidelines.

Relevant classification and H-Statements:
Not classified.
Key to Abbreviations

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_{Pow}	Logarithm of the octanol/water partition coefficient
LD_{50}	Lethal Dose 50
LC_{50}	Lethal Concentration 50
RID	The Regulations concerning the International Carraige of Dangerous Goods by Rail
SDS	Safety Data Sheet
UN	United Nations

Notice to Reader

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).

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END OF SAFETY DATA SHEET