





SAFETY DATA SHEET

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

INTELI-BUFF 5

Revised on / Version: 01/08/2022 / 0005 PAGE 1 OF 11

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

SECTION 1: Product and Company Identification

Identification of the product/preparation

Product Name:	INTELI-BUFF 5
Trade Name/Synonyms:	INTELI-BUFF 5
Registration Number:	L10540
Product Description and Type:	A water-soluble buffer for specific use with those agricultural chemicals whose optimal performance in spray water requires a pH of 5. Also contains a wetting agent and humectants

Active Ingredient

<u> </u>		
Formula:	Fatty alcohol ethoxylate	
CAS Number:	68439-50-9	

Supplier

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

> 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
Hazardous to the Aquatic Environment, Acute Hazard	2	H401
Skin Corrosion/Irritant	3	H316
Serious Eye Damage/Eye Irritation	2	H319

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
H401	Toxic to aquatic life
H316	Causes mild skin irritation
H319	Causes serious eye irritation

Precautionary Statements:

General -

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

Prevention -

Statement	Precautionary Statement	
Number		
P264	Wash affected area thoroughly after handling	
P273	Avoid release to the environment.	
P280	Wear safety goggles and face shield when handling this product.	

Reponse -

Statement Number	Precautionary Statement
P332 + P317	If skin irritation occurs, get medical help.
P337 + P317	If eye irritation persists, get medical help.
P305 + P351 +	IF IN EYES, rinse cautiously for several minutes. Remove contact lenses, if
P338	present and easy to do. 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.

Other Hazards

None

SECTION 3: Composition/Information on Ingredients

Mixture

Common Name:	Fatty alcohol ethoxylate	
IUPAC/Chemical	Alcohols, C12-14, ethoxylated, < 2.5 EO	
Name:		
Chemical Family:		
Formulation:	Buffering system 820g/L	
	Wetting agent 56 g/L	

Ingredients with Hazard Concerns (GHS)

According to UN GHS criteria.

Hazardous Component	CAS Number	Weight - %	GHS Classification
Alcohol ethoxylate (7-9 EO)	68439-50-9	5.67	Aquatic Acute 1 MFactor = 1 Aquatic Chronic 3 Eye Dam 1
Citric acid	5949-29-1	3.04	Skin Irri 2 Eye Irri 2 STOT SE 3

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.

Description of First-aid Measures

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.
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SECTION 6:	Accidental	Kelease	weasures

	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 IN EYES: rinse cautiously with water for several minute. Remove contact lenses, if present or easy to do so. Continue rinsing. If eye irritation persists, get medical help
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 exposed or concerned, get medical advice.

Most important symptoms/effects, acute and delayed

Symptoms of exposure to the product include: Skin irritation, eye irritation and aquatic.

Indication of any immediate medical attention and special treatment needed

Notes to physician: None

Specific treatments: Treat symptomatically and supportively.

SECTION 5: Firefighting Measures

Suitable (and unsuitable) extinguishing media	Use carbon dioxide, dry chemical, alcohol resistant foam, or water spray. Do not use water jets.
Specific hazards arising from the chemical including thermal decomposition products	Fires involving the product may produce irritating or poisonous vapours, mists, or other products of combustion.
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 site's Internal Emergency Plan and the Workplace Specific Procedures for actions to be taken after an accident or other emergencies.

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.

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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

Do not return product residues to the storage containers. 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 afterhandling. 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

National Occupational Exposure Limits – Restricted limits for hazardous chemical agents:

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

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*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
Not applicable	N/A	N/A	N/A

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

Annogrange	Appearance/physical state	Liquid
Appearance	Odour characteristics	Vinegar odour

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	Colour	Clear Blue
	Boiling point (°C)	>100°C
Volatility	Vapour pressure (Pa)	Not applicable
	Evapouration Rate at 20 °C	Not applicable
	Relative density (kg/m³, relative density of water	1.11
	=1)	
	Solubility in water (g/100mL)	Soluble in water
Product	Decomposition temperature (°C)	Not applicable
Description	Melting point/freezing point (°C)	Not applicable
	pH	4.89
	Density/relative density (g/cm ³⁾	1.11
	Particle characteristics	Not applicable
	Flammable (Y/N)	Not applicable
Elemmobility	Flash point (°C)	Not applicable
Flammability	Flammable limits-LEL	Not applicable
	Auto-ignition Temperature (°C)	Not applicable

^{*}Not relevant due to the nature of the product, not providing information property of its hazards.

Other Hazard Information

None

SECTION 10: STABILITY AND REACTIVITY

Reactivity

The product is stable under normal ambient 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

SECTION 11: Toxicological Information

be produced.

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.

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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: No information available.

Acute oral toxicity: No information available.

Acute dermal toxicity: No information available.

Acute inhalation toxicity: No information available.

<u>Skin corrosion/irritation:</u> Citric acid: According to the classification provided by companies to ECHA in CLP notifications this substance causes skin irritation. Classified for Skin irritation. Category 3

Serious eye damage/irritation: Citric acid & Alcohol ethoxylate (7-9 EO)

Danger! According to the classification provided by companies to ECHA in CLP notifications this substance causes serious eye irritation. Classified for Category 2

Respiratory or skin sensitization: No information available.

Germ cell mutagenicity: No information available.

Carcinogenicity: No information available.

Reproductive toxicity: No information available.

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

STOT-repeated exposure: No information available.

Aspiration hazard: No information available.

Symptoms related to the physical, chemical, and toxicological characteristics

Causes eye irritation, skin irritation.

SECTION 12: Ecological Information

Ecotoxicity

Short-term (Acute) hazard Aquatic: Alcohol ethoxylate (7-9 EO)

Warning! According to the classification provided by companies to ECHA in REACH registrations this substance is very toxic to aquatic life and is harmful to aquatic life with long lasting effects.

0.53 mg/L for Daphnia magma

1.2 mg/L for Fresh Water Fish

0,976 mg/L for Desmodesmus subspicatus

Acute Aquatic Toxicity is classified under Category 2.

Long-term (Chronic) hazard Aquatic: Alcohol ethoxylate (7-9 EO)

Does not meet the GHS classification criteria.

Bio-degradability in the aquatic environment: the study does not need to be conducted because the substance is readily biodegradable.

Toxicity to other species

Birds: No information available Bees: No information available

Other Environmental and Adverse Effects:

Persistence and Degradability: Fatty Alcohol Ethoxylate.

Readily biodegradable.

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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: Bentazone-Sodium.

No information 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.

Additional special precautions

The product and its container must always be disposed of in a safe manner. Care should be taken when handling emptied containers that have not been cleaned or

rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

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

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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 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.

SECTION 16: Other Information

Indication of changes

Alignment to the GHS.

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

Skin Corrosion/Irritation- Category 3 H316 Causes mild skin irritation.

Serious Eye Damage/Eye Irritation-Category 2

H319: Causes serious eye irritation

Hazardous to the Aquatic Environment, Acute Hazard- Category 2

H401: Toxic to aquatic life.

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

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COD GHS IATA	Chemical Oxygen Demand Globally Harmonised System of Classification and Labelling of Chemicals International Air Transport Association
ICAO	International Civil Aviation Organisation
IMDG	International Maritime Dangerous Goods
Log _{Pow}	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
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).

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, 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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