

SAFETY DATA SHEET

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

INTELI-BUFF 7

Revised on / Version: 01/08/2022 / 0004
Replaces Revision of / Version: 15/07/2019 / 0003

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SECTION 1: Product and Company Identification

Identification of the product/preparation

Product Name:	INTELI-BUFF 7
Trade Name/Synonyms:	INTELI-BUFF 7
Registration Number:	L6895
Product Description and Type:	A water-soluble buffer and non-ionic wetting agent for specific use with those agricultural chemicals whose optimal performance in spray water require a neutral pH.

Active Ingredient

Formula:	Diammonium phosphate
CAS Number:	7783-28-0

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 Emergency Helpline	Rolfes Agri (Pty) Ltd	+27(0)12 803 0145
Spill Response and Transport Incidents	Spill Tech, Oil and chemical pollution control	086 100 0366 083 253 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
Acute Toxicity; Oral	2	H300
Serious Eye Damage/Eye Irritation	1	H318
Skin Corrosion/Irritant	3	H316

Label Elements

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

Pictograms:**Signal Word:**

Danger

Hazard Statements:

Statement Number	Hazard Statement
H300	Fatal if swallowed
H318	Causes serious eye damage
H316	Causes mild skin 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 Number	Precautionary Statement
P280	Wear safety goggles and full face/ half mask respirator when handling this product.
P264	Wash affected area thoroughly after handling.
P270	Do not eat, drink, or smoke when using this product

Response -

Statement Number	Precautionary Statement
P332 + P317	If skin irritation occurs: Get medical help.
P305 + P354 + P338	IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P301 + P316	IF SWALLOWED: Get emergency medical help immediately
P321	Specific treatment (See first aid on this sds)
P330	Rinse mouth.

Storage -

Statement Number	Precautionary Statement
P405	Store locked up.

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 known.

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

Common Name:	AQUA-RIGHT® 7
IUPAC/Chemical Name:	Diammonium hydrogen phosphate
Chemical Family:	
Formulation:	Buffering systems 381 g/L

Ingredients with Hazard Concerns (GHS)

According to UN GHS criteria.

Hazardous Component	CAS Number	Weight - %	GHS Classification
Phosphoric acid	7664-38-2	5-10%	Metal Corr. 1 Acute Oral. 4 Eye damage. 1
Poly Alkyl Glucoside	68515-73-1	5-10%	Skin Irrit. 2 Eye Dam. 1 Acute toxicity (Oral): Category 4 Long-term (chronic) aquatic hazard: Category 3

NOTE: There are no other ingredients present according to the current knowledge of the supplier (considering 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

General Advice	The symptoms resulting from direct exposure to the product could appear a while after exposure. If there is 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 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 skin irritation occurs: Get medical help. Remove all contaminated clothing and shoes. Wash contaminated clothing before re-use. Rinse the skin immediately with plenty of water
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 SWALLOWED: Get emergency medical help immediately. Do not induce vomiting. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain an open airway and prevent aspiration. Keep patient quiet and maintain normal body temperature. Rinse mouth and administer 5 ml/kg up to 200 ml of <u>water</u> for dilution if the patient can swallow, has a strong gag reflex, and does not drool. Do not attempt to neutralize because of exothermic reaction.

Most important symptoms/effects, acute and delayed

Symptoms of exposure to the product include skin irritation, eye irritation and vomiting.

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.

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**

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 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

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

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

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.
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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	Appearance/physical state	Liquid
	Odour characteristics	Pungent odour
	Colour	Light brown to dark brown colour
Volatility	Boiling point (°C)	>100 °C
	Vapour pressure (Pa)	Not applicable
	Evaporation Rate at 20 °C	Not applicable
Product Description	Relative density (kg/m ³ , relative density of water =1)	Not applicable
	Solubility in water (g/100mL)	Soluble in water
	Decomposition temperature (°C)	Not applicable
	Melting point/freezing point (°C)	Not applicable
	pH	6.8-7.0
	Density/relative density (g/cm ³)	1.24
	Particle characteristics	Not applicable
Flammability	Flammable (Y/N)	Not applicable
	Flash point (°C)	Not applicable
	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 known

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

Incompatible 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: No information available.

Acute oral toxicity: Phosphoric Acid and Poly Alkyl Glucoside

Danger! According to the harmonised classification and labelling (CLP00) approved by the European Union, this substance causes severe skin burns and eye damage. Additionally, the classification provided by companies to ECHA in REACH registrations identifies that this substance is harmful if swallowed.

Acute dermal toxicity: No information available.

Acute inhalation toxicity: No information available.

Skin corrosion/irritation: Poly Alkyl Glucoside

Classified for Skin irritation Category 3

Serious eye damage/irritation: Phosphoric Acid and Poly Alkyl Glucoside

Danger! According to the harmonised classification and labelling (CLP00) approved by the European Union, this substance causes severe skin burns and eye damage. Additionally, the classification provided by companies to ECHA in REACH registrations identifies that this substance causes serious eye damage.

Classified for Category 1

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 and vomiting.

SECTION 12: Ecological Information

Ecotoxicity

Short-term (Acute) hazard Aquatic: Does not meet GHS classification criteria.

Long-term (Chronic) hazard Aquatic: Poly Alkyl Glucocide
1.76 mg/L (nominal, active ingredient) for *Daphnia magna*
1.8 mg/L (nominal, active ingredient) for *Danio rerio* for 28d.

Therefore, Not classified for Aquatic Chronic Toxicity 3.

Bio-degradability in the aquatic environment:

Readily biodegradable.

Toxicity to other species

Birds: No information available

Bees: No information available

Other Environmental and Adverse Effects:

Persistence and Degradability: Diammonium Phosphate

Readily biodegradation study does not need to be conducted since the substance is inorganic

Bioaccumulative Potential:

Diammonium Phosphate

Simple inorganic salts with high aqueous solubility will exist in a dissociated form in an aqueous solution. Such a substance has a low potential for bioaccumulation.

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

Avoid and minimize the generation of waste.

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. Do not use empty containers for any other purpose. The product or empty containers must not be disposed of as part of general waste.

Special help is available for the disposal of Agricultural Chemicals. The product label will supply general advice regarding disposal of small quantities, and how to cleanse containers.

General container handling

Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Empty containers and offer for recycling, if an available option. Recondition if appropriate, or puncture and dispose of in a hazardous waste landfill, or by other procedures approved by the local authorities.

Contaminated packaging: Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

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 Subsidiary Class	-	-	-	-
Packaging Group	-	-	-	-
Environmental Hazard	-	-	-	-

Not classified as dangerous goods.

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):

Acute Toxicity; Oral- Category 2

H300: Fatal if swallowed.

Serious Eye Damage/Eye Irritation- Category 1

H318: Causes serious eye damage.

Skin Corrosion/Irritant – Category 3

H316: Causes mild skin irritation.

Key to Abbreviations

AND	European Provisions concerning the International Carriage of Dangerous Goods by inland Waterways
ADR	The European Agreement concerning the International Carriage 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
LD50	Lethal Dose 50
LC50	Lethal Concentration 50
RID	The Regulations concerning the International Carriage 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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