

# **KYNOCH FERTILIZER**

# **SAFETY DATA SHEET**

# Venus WS

:

Date Issued / Revised Date New version Date previously revised Replaced version 25 September 2022 3.0 1 February 2021 2.0

Prepared according to: United Nations GHS (Rev 9E) (2021) and SANS 10234:2019 (This Safety Data Sheet conforms to the requirements set by the Department of Agriculture, Land reform and Rural development of the Republic of South Africa on the 29 March 2022)

### **SECTION 1: IDENTIFICATION**

#### 1.1 GHS product identification

Product Name

: Venus WS

<sup>1</sup> GHS - Globally Harmonized System of Classification and Labelling of Chemicals

1.2 Other means of ide	entification
Description	: NPK Blend: with Potassium nitrate.
Chemical name	: Mixture – N/A
CAS Number <sup>2</sup>	: Mixture – N/A
EC Number <sup>3</sup>	: Mixture – N/A

<sup>2</sup> "CAS Number" - CAS Number is a numerical designation for chemicals that is maintained by the Chemical Abstracts Service (CAS) of the American Chemical Society.

<sup>3</sup> "EC Number" - The European Community number (EC number) is a unique identifier that was assigned to substances for regulatory purposes within the European Union by the European Commission.

1.3 Recommended use of r	naterials and restrictions on use
Recommended use of material	: Intended to be used as a fertilizer and in fertilizer blends
Description	: Source of plant nutrients
Restrictions on use	: None Identified

1.4 Supplier's details	
Supplier's details	: 1st Floor, ETG House
	62 Wierda Road East
	Sandton
	2196
	Tel no: (011) 317-2000

1.5 Emergency phone n	umbe	r
Emergency phone number		: Dial Triple Zero (000) and ask for fire
		: Ambulance or the Fire department – 10177
		: Spilltech - 086 100 0366

# **SECTION 2: HAZARD IDENTIFICATION**

#### 2.1 Classification of substance or mixture

Product Defined

: Mixture

#### Summarized Classification

Types of Hazards	Hazard Class	Category/subcategory	H-Statement
Physical Hazards :	No Classification		
Health Hazards :	No Classification		
Environmental Hazards :	No Classification		

Classification according to the United Nations GHS (Rev 9E) (2021) and SANS 10234:2019

<sup>1</sup> "Not Classified" – Data conclusive but not at sufficient levels for classification.

<sup>2</sup> "H-Statement" – Hazard Statement. Full decryption in Section16

Raw material that are classified is listed below. The rest of the components is groups under "other".

Substance	CAS Number	Composition	Classification
Potassium Nitrate	7757-79-1	10% - 70%	Ox. Sol. 3
Other	471-34-1	30% - 90%	Not Classified

Reference: (European Chemical Agency [ECHA], n.d.) & (Environmental protection agency [EPA]. New Zealand Government, n.d.) & (The Australian Industrial Chemicals Introduction Scheme [AICIS], n.d.) & (International Labour organization [ILO], n.d.) & (ChemSafetypPro, n.d.)

#### 2.2 GHS Label elements, including precautionary statements

Pictogram	:	No Classification
Pictogram Name	:	No Classification
Signal Word	:	No Signal word.
Hazard Statements	:	N/A
Precautionary Statements	:	N/A

Reference: (ECHA, n.d.) & (Pubchem, GHS, n.d.)

Composition : N/A	2.3 Other haz	nazards that do not result in classif
	Composition	: N/A
Hazards : N/A	Hazards	: N/A

Reference: (European Chemical Agency [ECHA], n.d.) & (Pubchem, search, n.d.)

### **SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS**

#### 3.1 Substance

Substance

: Not Applicable

3.2 Mixture	
Components	: KNO3, Other
Substance 1	
Common name	: Potassium Nitrate
EC Name	: Potassium Nitrate
Chemical Formula	: KNO3, HNO3.K
Molecular Weight	: 101.103 g/mol
Nutrient Content	13% Total Nitrogen (N), 13% Nitric Nitrogen (NO <sub>3</sub> ), 38% Potassium (K)
CAS Number	: 7757-79-1
EC Number	<u>-</u> 231-818-8
Common name Reference: (European Chemical A	: Potassium Nitrate gency [ECHA], n.d.) & (Pubcem, Search, n.d.)

# **SECTION 4: FIRST AID MEASURES**

4.1 Description of first	aid measures
General information	: Prevent dispersion of dust.
After inhalation	: If inhaled, remove to fresh air. Obtain medical attention if symptoms occur.
After skin contact	: Remove affected clothing. Immediately rinse with water (can use mild soap). If skin irritation continues, consult a doctor.
After eye contact	: Rinse opened eye for several minutes under running water (remove contact lenses if easily possible). Obtain medical attention if symptoms occur.
After swallowing	: Rinse out mouth. Make victim drink water (maximum of 2 drinking glasses). Do NOT induce vomiting. If symptoms persist consult doctor.

Reference: (European Chemical Agency [ECHA], n.d.)

4.2 Most important symptoms a	nd effects, both acute and delayed	
Effects :	The substance is irritating to the eyes, skin and respiratory tract. T substance may cause effects on the blood. This may result in the formation of methaemoglobin. The effects may be delayed.	he
Symptoms :	Inhalation - Adverse symptoms may include the following: co wheezing and breathing difficulties.	oughing
:	Ingestion - Adverse symptoms may include the following: st pains, nausea or vomiting, diarrhoea	omach
:	Skin contact - Adverse symptoms may include the following: red dryness.	dness,
:	Eye contact - Adverse symptoms may include the following: pa watering, redness	ain,

Reference: (International Labour organization [ILO]. (n.d.)

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

No further relevant information available

### **SECTION 5: FIRE-FIGHTING MEASURES**

5.1 Suitable extinguishing m	edium
Suitable extinguishing agents	: Water - Use flooding quantities of water for extinction.
Inappropriate extinguishing media	: Do NOT use chemical extinguisher or foam or attempt to smother the fire with steam or sand.
	Sand
	• Foam
	Carbon dioxide (CO2)
	Dry chemical
	Do not use a heavy water stream.
Notes	: Use fire extinguishing methods suitable to surrounding conditions.
5.2 Specific hazards arise fro	om chemical
5.2 Specific hazards arise fro	<ul> <li>M chemical</li> <li>Not combustible but enhances combustion of other substances. Gives off irritating or toxic fumes (or gases) in a fire. Risk of fire and explosion on confinement and exposure to high temperatures or when contaminated with other materials.</li> </ul>
•	: Not combustible but enhances combustion of other substances. Gives off irritating or toxic fumes (or gases) in a fire. Risk of fire and explosion on confinement and exposure to high temperatures or when contaminated
•	: Not combustible but enhances combustion of other substances. Gives off irritating or toxic fumes (or gases) in a fire. Risk of fire and explosion on confinement and exposure to high temperatures or when contaminated with other materials.
Warning	<ul> <li>Not combustible but enhances combustion of other substances. Gives off irritating or toxic fumes (or gases) in a fire. Risk of fire and explosion on confinement and exposure to high temperatures or when contaminated with other materials.</li> <li>Toxic fumes may be formed in fire.</li> </ul>
Warning Hazardous Combustion Products	<ul> <li>Not combustible but enhances combustion of other substances. Gives off irritating or toxic fumes (or gases) in a fire. Risk of fire and explosion on confinement and exposure to high temperatures or when contaminated with other materials.</li> <li>Toxic fumes may be formed in fire.</li> <li>Nitrous gases (NOx) oxides of nitrogen, ammonia, Sulphur oxides</li> </ul>

5.3 Special protective action for Fire-Fighters				
Special protective actions for fire- fighters	: Fire fighters should use water to keep fire exposed containers cool and disperse vapour.			
	: Move container from fire area if it can be done without risk.			
	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.			
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self- contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.			
	: Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.			

### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

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

Percussions

: No action shall be taken involving any personal risk or without suitable training.

Equipment	: Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
Procedure	<ul> <li>Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Provide adequate ventilation.</li> </ul>
<sup>1</sup> DDF _ Dersonal precautions protective	a equipment

<sup>1</sup> PPE – Personal precautions, protective equipment.

6.2 Environmental precautions	;
Environmental	<ul> <li>Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.</li> </ul>
	<ul> <li>Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</li> </ul>
	: Discharge into the environment must be avoided.
6.3 Methods and material for o	ontainment and cleaning up
Small Spill	: Vacuum or sweep up material and place in a designated, labelled waste container. Clean up affected area with a large amount of water. Do not

Large Spill : Move containers from spill area. Vacuum or sweep up material and place in a designated, labelled waste container. Recycle, if possible. Clean up affected area with a large amount of water. If spilled substance enters a watercourse, inform the local authority. Do not collect spilled material in sawdust or other combustible material.

collect spilled material in sawdust or other combustible material.

6.4 Reference to other sections			
Section 7	: Information on safe handling.		
Section 8	: Information on personal protection equipment.		
Section 13 Reference: (ECHA, n.d.)	: For disposal information.		

# **SECTION 7: HANDLING AND STORAGE**

7.1 Precautions for safe handling			
Handling	: Ensure adequate ventilation. Avoid ingestion and inhalation. Avoid dust formation. Wear protective gloves/eye protection/face protection/. Do not get in eyes, on skin, or on clothing. Wash hands thoroughly after handling.		
	: Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed.		
	: For precautions see section 2.2.		

7.2 Conditions for safe stora	age	, including any incompatibilities
Storerooms and receptacles	:	Store in a dry place. Hygroscopic solid.
One common storage facility	:	Keep away from heat and precaution to avoid mixing with combustible materials, reducing agents and metals.
		Segregate from alkalies and alkalizing substances. Segregate from nitrites and alkaline substances.
	:	Incompatible products:
		Separate from reducing agents and combustible materials. Keep away from acids or bases.
		Strong bases. Strong oxidizers.
	:	Incompatible materials: Sources of ignition. Direct sunlight.
		On farm keep away from hay, grain, diesel, etc.
Handling of product	:	Keep container tightly closed.
Room conditions	:	Keep in a dry, well-ventilated place. Recommended storage temperature at < 30°C. (Room temperature). DO NOT expose the substance to temperatures above 50 °C.
	:	Protect against humidity (product is hygroscopic and tends to
		cake or disintegrate).
Storage Class	:	(TRGS 510): 10 - 13 Other liquids and solids: Non-Combustible Solids
Reference: (BAUA, 2016)		
7.3 Specific end use(s)		

Specific end Use(s) : Apart from the uses mentioned in section 1.3 no other specific uses are stipulated

# **SECTION 8: EXPOSURE CONTROL AND PERSONNEL PROTECTION**

8.1 Control Parameters						
	Compound	Cas Number		TWA <sup>1</sup>	STEL <sup>2</sup>	
South African Labour Department	All substances			Not Listed	Not Listed	
International Labour organization (ILO)	All substances			Not Listed	Not Listed	
OCHA	All substances			Lot Listed	Not Listed	

<sup>1</sup> TWA – Long term exposure: Time Weighted Average (8 hour period) <sup>2</sup> STEL – Short term exposure: Short term exposure limit (15 min period) Reference: (South African Labour Department, 2021) & (ILO, n.d.) & (OSHA, n.d.)

Routes of exposure	: The substance can be absorbed into the body by inhalation and by ingestion.
Inhalation	: Evaporation at 20°C is negligible; a harmful concentration of airborne particles can, however, be reached quickly when dispersed, especially if powdered.
Skin	: No effect
Еуе	: Redness

Indigestion	Abdominal pain. Blue lips, fingernails and skin. Confusion. Convu Dizziness. Headache. Nausea. Unconsciousness.	lsions.
Effects of short-term exposure	The substance is irritating to the eyes, skin and respiratory tract. I substance may cause effects on the blood. This may result in the f of methaemoglobin. The effects may be delayed.	
Effects of long-term or repeated exposure	Repeated or prolonged contact with skin may cause dermatitis.	

Reference: (European Chemical Agency [ECHA], n.d.) & (ILO, n.d.)

8.2 Appropriate engineering controls			
Engineering controls	: Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations, and safety showers are close to the workstation location.		
	See Section7.		

8.2 Individual protection measures				
Eye/face protection	:	Wear safety glasses. Use equipment for eye protection tested and approved under appropriate government standards. SABS adoption: SANS 50166:2018(SA), EN 166(EU) or NIOSH (US).		
Skin Protection	:	Handle with gloves.		
		Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.		
Body Protection	:	Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.		
Respiratory protection	:	Respiratory protection is necessary.		
		Where protection from nuisance levels of dusts is desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).		
Control of environmental exposure	:	No special environmental precautions required		



# **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

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<b>Y</b> 1	Pro	ne	rti	28
				60

Physical state	:	Solid <sup>1</sup>
Composition	:	Mixture <sup>2</sup>
Colour	:	N/A
Odour	:	N/A

Melting point/freezing point	:	N/A
Boiling point or initial boiling point and boiling range	:	N/A
Flammability	:	N/A
Lower and upper explosion limit/flammability limit	:	N/A
Flash point	:	N/A
Auto-ignition temperature	:	N/A
Oxidizing Properties	:	N/A
Explosive properties	:	N/A
Decomposition temperature	:	N/A
рН	:	N/A
Kinematic viscosity	:	N/A
Solubility	:	N/A
Partition coefficient: n-octanol/water (log value)	:	N/A
Vapour pressure	:	N/A
Density and/or relative density	:	N/A
Relative vapour density	:	N/A
Bulk Density (Volumetric)	:	N/A
Particle characteristics	:	N/A

<sup>1</sup> "Solid" – Is a substance that cannot be classified as a liquid or Gas.
 <sup>2</sup> "Mixture" – A mixture is composed of two or more substances in which they do not react.

# **SECTION 10: STABILITY AND REACTIVITY**

Reactivity	: Stable under recommended storage and handling conditions.
	An oxidizing agent. Non-combustible but accelerates the burning of combustible materials.
Chemical stability	: Stable under normal conditions.
Hazardous Reactions	: Hazardous reactions or instability may occur under certain conditions of storage or use. Conditions may include the following:
	<ul><li>Contact with incompatible substances.</li><li>Contact with combustible materials.</li></ul>
	<ul> <li>Reactions may include the following:</li> <li>Risk of causing or intensifying fire</li> <li>If mixed with chlorine or hypochlorites, it may form nitrogen trichloride which may explode spontaneously in air.</li> <li>Under normal conditions of storage and use, hazardous reactions will not occur.</li> </ul>
Conditions to Avoid	: Decomposes on heating. Avoid confinement. Avoid Moisture.

Incompatible Materials	:	Moisture-sensitive material. Hygroscopic. Keep container tightly closed. Avoid contamination by any source including metals, dust and organic materials. Incompatible with copper alloys, copper, and zinc. May be incompatible with some materials of construction. Contact your sales representative or a metallurgical specialist to ensure compatibility with your equipment.
		Separate from reducing agents and combustible materials. Keep away from acids or bases.
		Alkalies, strong acids, copper, and its alloys.
Hazardous Decomposition Products	:	Hazardous decomposition products formed under fire conditions - Nitrogen Oxides, Sulphur Oxides.

Reference: (Pubchem, search, n.d.)

### **SECTION 11: TOXICOLOGY**

### 11.1 Acute Toxicity

Classification

: No Classification

Interpretation

: None of the substances have acute toxicity properties.

Method	Compound	Cas Number	Measure	Value	Subject
Oral	Potassium Nitrate	7757-79-1	LD50 <sup>1</sup>	>2000 mg/kg bw <sup>2</sup>	Rat
Inhalation	Potassium Nitrate	7757-79-1	LC50	>527 mg/L air	Rat
Dermal	Potassium Nitrate	7757-79-1	LD50	>5000 mg/kg bw	Rat

<sup>1</sup> "LD50" – Lethal Doses. The dosage at which 50% mortality was observed.

 $^2$  "LC50" – Lethal Concentration. The concentration at which 50% mortality was observed.  $^3$  "bw" - body-weight/day

Reference: (ECHA, n.d.) & (Pubchem, search, n.d.)

11.2 Skin corrosion/	irritation	
Classification	: No classification	
Description	: None of the substances qualify to be classified.	
Subjects	: Rabbits	
Reference: (ECHA, n.d.)		
11.3 Serious eye damage/irritation		

Classification	: No Classification	
Description	: None of the substances qualify to be classified.	
Subjects	: Rabbits	
Reference: (ECHA, n.d.)		

11.4 Respiratory or skin sensitisation		
Classification	No classification	
Description	None of the substances qualify to be classified.	
Subjects	Mouse	
Reference: (ECHA, n.d.)		

11.5 Germ cell mutagenicity	
Classification	: No classification
Description	: None of the substances qualify to be classified.
Subjects	: Salmonella typhimurium strains
Reference: (ECHA, n.d.)	

### 11.6 Carcinogenicity

Classification	: No data available
Reference: (ECHA, n.d.)	
11.7 Peproductive toxici	
11.7 Reproductive toxici	ity

11.7 Reproductive toxicity	
Classification	: No classification
Description	: None of the substances qualify to be classified.
Subjects	: Rat
Reference: (ECHA, n.d.)	

11.8 STOT <sup>2</sup> - single exposure		
Classification	: No data available	
<sup>2</sup> "STOT" - Specific target org	an toxicity.	
Reference: (ECHA, n.d.) & (Pubchem, search, n.d.)		

11.9 STOT <sup>2</sup> - repeate	d exposure
Classification	: No classification
Description	: None of the substances qualify to be classified.
Subjects	: Rat
<sup>2</sup> "STOT" - Specific target organ t	oxicity.
Reference: (ECHA nd) &	(Pulpham search n.d.)

Reference: (ECHA, n.d.) & (Pubchem, search, n.d.)

#### 11.10 Aspiration hazard

Classification

: No data available

Reference: (ECHA, n.d.) & (Pubchem, search, n.d.)

11.11 Route of Exposure and potential effects			
Swallowing	:	Convulsions. Headache. Nausea. Vomiting.	
Inhalation	:	Cough. Shortness of breath. Sore throat.	
Eye exposure	:	Redness	
Skin exposure	:	No symptoms	
Reference: (ECHA, n.d.)			

### 11.12 Long- and short-term effects

#### No data available

Reference: (ECHA, n.d.)

# **SECTION 12: ECOLOGICAL INFORMATION**

:

#### 12.1 Toxicity

Classification

: Triggers for classification are not met.

#### **Aquatic Toxicity**

Compound	Cas Number	Organism	Species	Time	Measure	Value
Potassium Nitrate	7757-79-1	Fish	Oncorhynchus Mykiss	96-h	LC50 <sup>1</sup>	> 100 mg/L
Potassium Nitrate	7757-79-1	Fish	Fathead minnow	32-d	NOEC <sup>2</sup>	58 mg/L
Potassium Nitrate	7757-79-1	Aquatic invertebrates	Daphnia magna	96-h	EC50 <sup>1</sup>	490 mg/L
Potassium Nitrate	7757-79-1	Aquatic invertebrates	Daphnia magna	12-d	NOEC	>245 mg/L
Potassium Nitrate	7757-79-1	Aquatic Algae and Cyanobacteria	benthic diatoms	10-d	EC50	>1700 mg/L
Potassium Nitrate	7757-79-1	Micro-organisms	Activated sludge of a predominantly domestic sewage	3-h	EC50 <sup>1</sup>	>1000 mg/L

<sup>1</sup> "LC50 /EC50" - (Median Lethal Concentration/Median Effective Concentration) They are the concentrations at which 50% mortality or inhibition of a <sup>2</sup> "NOEC" - No Observed Effect Concentration. NOEC is the highest tested concentration for which there are no statistically significant difference of effect

when compared to the control group.

#### **Terrestrial Toxicity**

#### None of the other substance justify the testing for Terrestrial Toxicity

2

Reference: (ECHA, n.d.) & (Pubchem, search, n.d.)

12.2 Persistence and degradability			
Stability	: All substances: The substance does not hydrolyse nor is there evidence for photodegradation.		
	In aqueous solution, ammonium nitrate is completely dissociated into the ammonium ion (NH4+) and the nitrate anion (NO3 -). Hydrolysis of ammonium nitrate does not occur.		
Biodegradation	<ul> <li>Readily biodegradation study does not need to be conducted since the substances is inorganic.</li> </ul>		
Reference: (ECHA, n.d.)			

12.3 Bioaccumulate potenti	al	
Description	:	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.
Reference: (ECHA, n.d.)		

12.4 Mobility in soil	
Adsorption	: Nitrate is not bound to the soil and will follow water movements. Nitrate can therefore leach when the soil receives more water than it can take up. This happens (in) mainly in the late autumn, winter, and early spring. There exist a lot of studies on the environmental impact of NO3 and NH4+/NH3.
Adsorption	: Ammonia is bound in soil by the attraction of the positive charge on the ammonium ion to the negatively charged soil micelles. In soil, ammonium is adsorbed primarily by four mechanisms: chemical (exchangeable), fixation (non-exchangeable), reaction with organic matter and physical attractive forces. Since ammonia is so poorly mobile in soil, it is unlikely to leach to groundwater except under unusual circumstances, such as when the cation exchange capacity of the soil is exceeded. The worst situation for ammonium leaching would probably occur when the soil is at field capacity with respect to water.
Volatilization <i>Reference: (ECHA, n.d.)</i>	: Volatilization is unlikely due to the properties of the substance.
12.5 Other adverse effects	

#### Classification

: No data available

### SECTION 13: DISPOSAL CONSIDERATIONS

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

### **SECTION 14: TRANSPORT INFORMATION**

#### **12.1 UN Modelled regulations**

UN Number	:	No classification
UN proper shipping name	:	No classification
Transport hazard class(es)	:	No classification
Label	:	No classification
Packing group	:	No classification
Environmentally hazardous	:	No classification

Special precautions:	:	ADR/RID -
		IMDG <sup>2</sup> -
		IATA <sup>3</sup> -
Transport in Bulk according to IMO instructions	:	Not specified

Reference: (ILO, n.d.) & (ECHA, n.d.) & (Hazmat Tool, n.d.) & (BAM, 2021)

<sup>1</sup> ADR/RID - International Carriage of Dangerous Goods by Rail (RID) and by Road (ADR)
 <sup>2</sup> IMDG - The International Maritime Dangerous Goods (IMDG)
 <sup>3</sup> IATA - International Air Transport Association (IATA)

### **SECTION 15: REGULATORY INFORMATION**

### 15.1 Safety, Health and environmental regulations specific for the substance or mixture

Regulations	:	This Safety Data Sheet conforms to the requirements set by the Department of Agriculture, Land reform and Rural development of the Republic of South Africa, United Nations GHS (Rev 9E) (2021) and SANS 10234:2019, on the 29 March 2022.
Restrictions	:	The substance is not subjected to any prohibitions or restriction in South Africa.
Chemical Safety Assessment:	:	For this product a chemical safety assessment was not carried out.

### **SECTION 16: OTHER INFORMATION**

16.1 Preparation and revision				
Latest Version				
Version Number	:	Ver. 3		
Preparation Date	:	25 September 2022		
Where the changes as made	:	Complete overall of all data to comply with GHS regulations		
Previous Version				
Version Number	:	Ver. 2		
Preparation date	:	February 2021		

16.2 Abbreviations and A	Acronyms
GHS	: Globally Harmonized System of Classification and Labelling of Chemicals
ECHA	: European Chemical agency
AICIS	: The Australian Industrial Chemicals Introduction Scheme
EPA-NZ	: Environmental protection agency New Zealand
ILO (WHO)	: International labour organization (World health organization)
CAS Number	: CAS Number is a numerical designation for chemicals that is maintained by the Chemical Abstracts
	Service (CAS) of the American Chemical Society.
EC Number	The European Community number (EC number) is a unique identifier that was assigned to substances for regulatory purposes within the European Union by the European Commission.
H-Statement	: Hazard Statement
P-Statement	: Precautionary Statements
Hazard Statements	H272 - May intensify fire; oxidiser
	H302 - Harmful if swallowed
	H318 - Causes serious eye damage
Precautionary Statements	P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Date Issued: 25-9-2022, Version 3.0 Previously Issued: 1-2-2021, Version 2.0 / Prepared according to United Nations GHS (Rev9E)

P220 - Keep away from clothing or other combustible materials.	
P264 - Wash hands [and] thoroughly after handling.	
P270 - Do not eat, drink or smoke when using this product.	
P265 Do not touch eves.	
P280 - Wear protective gloves/protective clothing/eye protection/face protection/	hearing
protection/	5
H272 - May intensify fire; oxidiser	
H302 - Harmful if swallowed	
H318 - Causes serious eve damage	
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignitic	n sources. No
smokina.	
P220 - Keep away from clothing or other combustible materials.	
P264 - Wash hands [and] thoroughly after handling.	
P270 - Do not eat, drink or smoke when using this product.	
P265 Do not touch eyes.	
P280 - Wear protective gloves/protective clothing/eye protection/face protection/	hearina
protection/	5
N/A : Not Applicable	
Not Classified Data conclusive but not at sufficient levels for classification	
PPE : Personal precautions, protective equipment.	
TWA Time Weighted Average	
OEL : Occupational Exposure Limits	
STOT Specific target organ toxicity	
LC50 / EC50 : (Median Lethal Concentration/Median Effective Concentration): They are the concentrat	tions at which
50% mortality or inhibition of a function (e.g., growth or growth rate) was observed.	
NOEC : (No Observed Effect Concentration) NOEC is the highest tested concentration for which	າ there are no
statistically significant difference of effect when compared to the control group	
ECx : It is the concentrations at which x % (10% for EC10) effect was observed or derived sta	tistically when
compared to the control group	,
LD0 Lethal Dose 0, represents the dose at which no individuals are expected to die.	
LC0 Lethal concentration 0, represents the concentration at which no individuals are expect	əd to die.
LDLo Lethal dose low, is the lowest dosage of a compound that is introduced to the human b	
	ody or that of

#### 16.3 References

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(The Australian Industrial Chemicals Introduction Scheme (AICIS) helps protect Australians and the environment by assessing the risks of industrial chemicals and providing information to promote their safe use. Focus mainly on heath aspects.)

#### 16.4 Disclaimer

The information contained in this SDS does not constitute a risk assessment, and should not replace the user's own assessment of risks as required by other health and safety legislation.

This SDS summarises at the date of issue our best knowledge of the health, safety and environmental hazard information related to the product and in particular how to safely handle, use, store and transport the product. Since Kynoch cannot anticipate or control the conditions under which the product may be handled, used, stored or transported, each user must, prior to usage, review this SDS in the context of how the user intends to handle, use, store or transport the product and beyond, and communicate such information to all relevant parties.

We shall not assume any liability for the accuracy or completeness of the information contained herein or any advice given unless there has been gross negligence on our part.