



AN ILLOVO SUGAR AFRICA COMPANY

SAFETY DATA SHEET CROP GUARD®

Revision Date: 13/09/2023

Revision Number: 01

1. PRODUCT AND COMPANY IDENTIFICATION

Identification of the product/preparation

Product name : **CROP GUARD®**
 Registration number : L6864, Act No. 36 of 1947
 Chemical constituents : 2-Furan carboxaldehyde (furfural) 900 g/l,
 Inerts 100g/l
 Product use : Contact emulsifiable concentrate nematicide
 for the control of nematodes on crops

Active Ingredient

Formula : $C_5H_4O_2$
 CAS-no. : 98-01-1
 Annex-1 no. : 605-010-00-4
 EC-no. : 202-627-7
 FEMA-no. : 2489

Supplier

Company name : Illovo Sugar (South Africa) Proprietary
 Limited
 Address : 1 Nokwe Avenue
 Ridgeside
 Umhlanga Rocks
 Durban
 4320
 South Africa
 Phone no. : + 27 84 554 9664
 E-mail address : commercialdownstreamsds@illovo.co.za

Emergency phone numbers

Spills and transport disasters:

Local South Africa : 0800 17 27 43 Rapid Spill Response
 International : +27 82 775 3305

Medical Information:

South Africa : +27 82 446 8946 Human and animal poisoning:
 Griffon Poison Information Centre
 South Africa : +27 824 910 160 Bloemfontein Poison Control and
 Medicine Information Centre
 South Africa : +27 861 555 777 Poisons Information Helpline of
 the Western Cape



SAFETY DATA SHEET CROP GUARD®

Revision Date: 13/09/2023
Revision Number: 01

Relevant identified uses of the product and uses advised against

Agricultural remedy for nematicidal activity.

Contact nematicide and is not systemic.

The product should only be used as directed on the label.

2. HAZARD 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 – SANS10234 and the Regulations for Hazardous Chemical Agents - 2021.

Classification

Acute Toxicity Oral	Category 3	H301
Serious Eye Damage/Irritation	Category 2A	H319
Acute Toxicity Inhalation	Category 3	H331
STOT SE	Category 3	H335
Carcinogenicity	Category 2	H351

Label Elements

South Africa. GHS classification and labelling of chemicals – SANS10234, and the Regulations for Hazardous Chemical Agents - 2021.

Pictograms:



Signal Word:

Danger

Hazard Statements:

H301	Toxic if swallowed.
H331	Toxic if inhaled.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.



SAFETY DATA SHEET CROP GUARD®

Revision Date: 13/09/2023

Revision Number: 01

Precautionary Statements:

General

- P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.

Prevention

- P203 Obtain, read, and follow all safety instructions before use.
P261 Avoid breathing fumes/mist/vapours/spray.
P270 Do not eat, drink, or smoke when using this product.
P271 Use only outdoors or with adequate ventilation.
P280 Wear protective gloves, protective clothing, and eye protection.
P264 + P265 Wash hands and face thoroughly after handling. Do not touch eyes.

Response

- P316 Get emergency medical help immediately.
P318 If exposed or concerned, get medical advice.
P330 Rinse mouth.
P301 + P316 IF SWALLOWED: Get emergency medical help immediately.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P337 + P317 If eye irritation persists: Get medical help.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Storage

- P405 Store locked up.
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

Disposal

- P501 Dispose of contents/container to a specialised hazardous waste processing facility in accordance with local/regional regulations.

3. INGREDIENT INFORMATION

Mixture

Ingredients with Hazard Concerns (GHS)

According to UN GHS criteria.



SAFETY DATA SHEET

CROP GUARD®

Revision Date: 13/09/2023

Revision Number: 01

Hazardous Component	CAS and EC Numbers	Weight - %	GHS Classification
2-Furan carboxaldehyde (furfural)	98-01-1 and 202-627-7	90%	Flammable Liquid, Category 3. Acute Toxicity Oral, Category 3. Acute Toxicity Dermal, Category 4. Acute Toxicity Inhalation, Category 3. Skin Corrosion/Irritation, Category 2. Serious Eye Damage/Irritation, Category 2. STOT SE, Category 3 - Respiratory Irritation. Carcinogenicity, Category 2. Aquatic Toxicity Chronic, Category 3.

4. FIRST AID MEASURES

Inhalation

Remove to fresh air. If breathing is difficult have qualified personnel administer oxygen. If breathing has stopped, administer artificial respiration. Obtain immediate medical attention even if no symptoms (such as wheezing, coughing, shortness of breath, or burning in the mouth, throat, or chest) develop.

Skin contact

Wash skin with plenty of soap and water for several minutes. Remove all contaminated clothing and launder before reuse. Get medical attention if irritation develops or persists.

Eye contact

Immediately flush eyes with large quantities of water for several minutes, while holding the eyelids apart. Remove contact lenses if easy to do so. Continue rinsing. Get medical attention if irritation occurs and persists. Do not put any ointments, oils, or medication in the victim's eyes without specific instructions from a physician.

Ingestion

If conscious, rinse mouth with water. Never give anything by mouth to an unconscious or convulsing person. If the victim is conscious and not convulsing, give 1 or 2 glasses of water to dilute the product.

Do NOT induce vomiting unless directed to do so by a medical professional due to the risk of aspirating the chemical into the victim's lungs. Obtain immediate medical attention.

If the victim is convulsing, ensure that the victim's airway is open and lay the victim on his/her side with the head lower than the body.



SAFETY DATA SHEET CROP GUARD®

Revision Date: 13/09/2023

Revision Number: 01

Most important symptoms/effects, acute and delayed

Eye contact

May cause severe eye irritation with redness and tearing.

Ingestion

Toxic if swallowed. Swallowing may cause gastrointestinal irritation, nausea, salivation, dizziness vomiting and diuresis.

Skin contact

May be harmful in contact with skin and cause skin irritation.

Inhalation

Toxic if inhaled. Vapours or mists may cause respiratory tract irritation, dizziness, weakness, fatigue, nausea, headache, loss of sense of taste, difficulty in breathing, unconsciousness, and asphyxia. May cause delayed pulmonary edema. Furfural has been shown to cause damage to nasal tissues and lungs in studies with laboratory animals.

Delayed effects

Furfural has been shown to cause liver and kidney damage in animal studies. Ingestion of large doses of furfural may cause cyanosis.

May cause cancer - based on animal data. Risk of cancer depends on level and duration of exposure.

Indication of immediate medical attention and special treatment, if necessary

Immediate medical attention is required for inhalation and ingestion.

5. FIRE-FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media

For small fires use dry chemical, CO₂, or water spray to extinguish. Do not use high volume water jets due to potential contamination.

For larger fires use dry chemical, CO₂, alcohol-resistant foam, or water spray. If it can be done safely, move undamaged containers away from the area around the fire. If water is used for firefighting, dike and collect water to prevent run-off from the site.

Specific hazards arising from the chemical

This product is combustible and could pose a fire hazard when heated above the flashpoint. Closed containers may explode if exposed to extreme heat. Direct application of water to hot liquids may cause a violent steam eruption. Combustion may produce oxides of carbon and other toxic and irritating gases.



SAFETY DATA SHEET CROP GUARD®

Revision Date: 13/09/2023
Revision Number: 01

Special protective equipment and precautions for fire-fighters

Firefighters should wear full emergency equipment and positive pressure self-contained breathing apparatus. Cool fire exposed containers and structures with water. Contain water used in firefighting from entering sewers or natural waterways.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures

Do not breathe vapours, mists, or spray. Ventilate area. Prevent contact with eyes, skin, and clothing. Do not touch or walk through spilled material. Stop leaks and contain spills if it can be done without risk.

Wear appropriate protective clothing recommended in Section 8 of the SDS. Use non-sparking tools and equipment. Eliminate all ignition sources. Ventilate the area.

Environmental precautions

Avoid releases to the environment. Do not spread this substance to other areas - keep contained and isolated. Report spills and releases as required to appropriate authorities.

Methods and materials for containment and cleaning up

Small Spills:

Soak up the spilt product with suitable inert absorbent material. Apply enough absorbent material to completely cover the spilt product. Shovel up the spilt material using non-sparking tools and place into a labelled waste container. Cover the container for subsequent safe disposal. Dispose of collected spilt material as hazardous waste.

Larger Spills:

Note: Do not wash away into sewers.

Contain/dyke/cover to prevent dispersal using absorbent material, absorbent socks, pillows, or pads supplied in a spill kit. Collect the spilt product and place it into suitable labelled containers for proper disposal.

Flush spill area with water to remove any residues and contain the wash water. Keep product and wash water out of drains, sewers, ditches, and waterways. Dig up heavily contaminated soil.

If spill is in water, contain contaminated water for disposal as hazardous waste.

7. HANDLING AND STORAGE

Precautions for safe handling

Prevent contact with eyes, skin, and clothing. Do not breathe vapours or mists. Wear protective clothing and equipment as described in Section 8 of the SDS.



SAFETY DATA SHEET CROP GUARD®

Revision Date: 13/09/2023

Revision Number: 01

Use only with adequate ventilation. Do not eat or drink during the application of the product or before washing the hands and face. Wash thoroughly with soap and water after handling.

Keep containers closed when not in use. Keep product away from heat, sparks, flames, and all other sources of ignition. Do not permit smoking in use or storage areas.

Avoid drift of spray mist onto other crops, grazing, rivers, dams, and areas not under treatment. Clean applicator after use and dispose of wash water where it will not contaminate other areas.

Conditions for safe storage, including any incompatibilities

Always store locked up. Check containers periodically for leaks. Store in tightly closed containers in a cool, well-ventilated, and dark area.

Keep away from food and feedstuffs. Protect containers from physical damage. Do not cut, drill, grind, or weld on or near this container; residual vapours may ignite. Keep containers closed when not in use. Follow all SDS precautions in handling empty containers. Store away from incompatible materials like oxidizers. Keep out of reach of children, uninformed persons, and animals.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Components with workplace control parameters – National Occupational Exposure Limits

An occupational exposure limit (restricted limit) has been established for 2-furan carboxaldehyde (furfural) by the South African Department of Employment and Labour.

Component	Type	Control Parameter	Update	Basis
2-furan carboxaldehyde (furfural)	OEL- eight-hour TWA	0.4 ppm	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.			
TWA	Time Weighted Average			

A Biological Exposure Index (BEI) for 2-furan carboxaldehyde (furfural) has also been established by the South African Department of Employment and Labour:



SAFETY DATA SHEET CROP GUARD®

Revision Date: 13/09/2023

Revision Number: 01

Component	Agent/Determinant	Sample Matrix	Sample Time	Value
2-furan carboxaldehyde (furfural)	Furoic acid	Urine	End of shift	200 mg/l

Note: BEI's are reference values intended as guidelines for the evaluation of potential health hazards in the practice of industrial hygiene. BEIs must not be used as statutory reference values.

Appropriate engineering controls

Use with general or adequate local exhaust ventilation to maintain exposure as low as possible and below the occupational exposure limit.

Personal Protective Equipment

Respiratory protection: In operations where exposure levels are exceeded or expected to be high, an approved respirator (full face) with an organic vapour cartridge or supplied air respirator should be used. Respirator selection and use should be based on contaminant type, form, and concentration. Follow applicable regulations and good industrial hygiene practice.

Skin protection: Impervious gloves recommended (butyl rubber). Information on glove penetration time is available from the manufacturer of the glove. Wash gloves when contaminated. Dispose of and replace immediately when contaminated inside, when perforated, when contamination on the outside cannot be removed or when signs of damage.

Eye protection: Splash resistant safety goggles and a face shield are recommended if a full-face respirator is not used.

Other: Impervious coveralls, apron, and boots as required to prevent skin contact and contamination of personal clothing. Overalls must be buttoned to the neck and sleeves worn over the gloves. A safety shower and eye wash should be available in the immediate work area.

General Hygiene Considerations: Do not smoke during use or handling. Observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, using the lavatory, and smoking. Routinely wash work clothing and personal protective equipment. Contaminated work clothing should not be allowed out of the workplace and should be laundered separately.



SAFETY DATA SHEET

CROP GUARD®

Revision Date: 13/09/2023

Revision Number: 01

9. PHYSICAL AND CHEMICAL PROPERTIES

PROPERTY	DATA AND INFORMATION	TEST METHOD
Appearance/physical state	Liquid, oily	
Odour characteristics	: Pungent, almond	
Colour	: Yellow liquid - turns reddish-brown upon exposure to light and air	
Density at 20°C	: 1.1594 kg/l	ASTM D4025
Water solubility at 20 °C (g/l)	: 83 - Furfural	
Flash point (°C)	: 63	ASTM D93
Flammable limits-LEL	: No data available	
Vapour pressure (20°C)	: 340 Pa - Furfural	OECD 104
Decomposition temperature	: Not available	
pH	: 7.02	ASTM E70
Boiling point	: 161.8°C @ 760 mmHg - Furfural	
Melting point/freezing point	: -37°C - Furfural	
Auto-ignition temperature	: 392 °C - Furfural	
Vapour density	: 3.3 - Furfural	
Solubility in water	: 8.3 g/100ml - Furfural	
Water content (%m/m)	: 0.124	ASTM E203

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions of use.

Chemical stability

Stable under normal ambient conditions of use, storage, and transport. Turns to red brown on exposure to air and light. Would not under normal conditions form hazardous atmospheres with air, but under high ambient temperatures or under moderate heating could release vapour in sufficient quantities to produce hazardous atmospheres with air.

Possibility of hazardous reactions

None known under conditions of normal use. Violent reactions possible with strong bases and acids, reducing agents and oxidizing agents.



SAFETY DATA SHEET

CROP GUARD®

Revision Date: 13/09/2023

Revision Number: 01

Conditions to avoid

Keep away from heat, sparks, and other sources of ignition.

Incompatible materials

Avoid contact with strong bases and acids, reducing agents and oxidizing agents.

Hazardous decomposition products

Combustion may produce oxides of carbon.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

The substance may be absorbed into the body by inhalation of vapour or spray and/or by ingestion.

The substance may come into contact with the skin or eyes.

Information on toxicological effects

Acute toxicity:

The product is toxic if inhaled or swallowed.

Product/Ingredient Name	Dose Acute -	Species	Test Result and Method
Crop Guard	120 mg/kg	Rat	ATE _(MIX) Oral
Furfural (>99%)	108 mg/kg	Rat	LD ₅₀ Oral (OECD 401)
Crop Guard	>2000 mg/kg	Rat	ATE _(MIX) Dermal
Furfural (>99%)	>2 000 mg/kg	Rat	LD ₅₀ Dermal ¹
Crop Guard	0.60 mg/l	Rat	ATE _(MIX) Inhalation (Dust/Mist)
Furfural (>99%)	0.54 mg/l	Rat	LC ₅₀ Inhalation ²

Data sources:

1. ECHA.
2. US EPA Health Effects Test Guidelines, OPPTS 870.1300 – 1998.

Skin Corrosion/Irritation

Assessment of skin corrosion/irritation to skin:

Based on available data, the classification criteria are not met.

Furfural (>99%): OECD No.404 and US EPA OPPTS 870.2500. Acute Dermal Irritation - New Zealand White Rabbits. Mild skin irritant.



SAFETY DATA SHEET

CROP GUARD®

Revision Date: 13/09/2023
Revision Number: 01

Serious Eye Damage/Irritation

Assessment of serious damage to eyes/eye irritation:

Based on available data, the classification criteria are met for serious eye irritation.

Furfural (>99%): OECD No.405 and US EPA OPPTS 870.2400. New Zealand White Rabbit. Causes serious eye irritation.

Respiratory/Skin Sensitization

Assessment of sensitization:

Based on available data, the classification criteria are not met.

Germ Cell Mutagenicity

Assessment of mutagenicity:

Based on available data, the classification criteria are not met.

Carcinogenicity

Assessment of carcinogenicity:

Based on available data, the classification criteria are met.

Furfural (>99%): suspected of causing cancer.

Furfural has been classified in the REACH registration as a carcinogen Category 2 based on studies in mice that showed increased incidences of hepatocellular adenomas and hepatocellular carcinomas.

None of the other components are listed as a carcinogen by IARC, NTP, OSHA and the EU CLP.

Reproductive Toxicity

Assessment of reproduction toxicity:

Based on available data, the classification criteria are not met.

Specific Target Organ Toxicity - Single Exposure

Assessment of STOT SE:

Based on available data, the classification criteria are met for respiratory irritation.

Furfural: vapours may irritate respiratory system - the liquid has a relatively low volatility so that inhalation of significant quantities is unlikely.

Specific Target Organ Toxicity - Repeated Exposure

Assessment of STOT RE:

Based on available data, the classification criteria are not met.

From repeated dose toxicity studies, evident that the substance may cause respiratory irritation particularly to the upper respiratory tract and the nose. No classification warranted.



SAFETY DATA SHEET

CROP GUARD®

Revision Date: 13/09/2023

Revision Number: 01

Aspiration Hazard

Assessment of aspiration hazard:

Based on available data, the classification criteria are not met.

Chronic effects

None known for the product.

12. ECOLOGICAL INFORMATION

Toxicity values - daphnia and other aquatic invertebrates

No eco-toxicological data are available for the product.

The ecotoxicological assessment is based on the active ingredient, furfural.

The product is not harmful to aquatic life.

Furfural:

Species	Time	LC ₅₀ fresh water
Crustacea (Daphnia)	48h	19.94 mg/L
Fish (Rainbow Trout)	96h	3.63 mg/L
Algae and aquatic plants	NOEC 8 days	2.7 mg/L

Persistence and Biodegradability

Furfural is readily biodegradable. Mechanical degradation is 100%; biological degradation is 96.3%.

Abiotic degradability:

Photolysis	Half-life (DT ₅₀ in air)	0.44 d
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Biodegradability:

Biodegradability in water - readily biodegradable.

Biochemical oxygen demand:

BOD (14 days):	93.5% degradation
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Bioaccumulation

Furfural has a BCF of 1.41 l/kg (estimation based on a calculation method) which suggest that the potential for bioaccumulation is low. No remarkable bioaccumulation potential (log K_{ow} 0.41).



SAFETY DATA SHEET CROP GUARD®

Revision Date: 13/09/2023

Revision Number: 01

Mobility in soil

If released to soil, furfural is expected to have very high mobility based upon an estimated K_{oc} of 40. Furfural may volatilize from dry soil surfaces based upon its vapour pressure.

Other adverse effects

None known for the product.

13. DISPOSAL CONSIDERATIONS

Dispose of contents and container in according to the requirements of local/regional/national/international regulations.

Pesticide Disposal: Pesticide wastes are hazardous. Improper disposal of excess pesticide, application mixture, or rinsate is a violation of local legislation. Do not allow to enter groundwater, surface water or drains and do not contaminate water, food, or feed by storage or disposal.

Dispose of pesticide waste by thermal treatment (if available) or to a hazardous waste facility in accordance with local requirements.

Container Handling: Non-refillable container and should not be reused or refilled. Triple rinse container (or equivalent) promptly after emptying as described below:

Containers ≤ 20 L triple rinse as follows: Empty the remaining contents into application equipment or mix tank and drain for 10 seconds after the flow begins to drip. Fill the container $\frac{1}{4}$ full with water and place the cap back onto the container. Shake for 10 seconds.

Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

Containers > 20 L triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container $\frac{1}{4}$ full with water. Replace and tighten container lids. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Empty the rinsate into the application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

Puncture and flatten (where appropriate) the nominally empty container. Offer for recycling by taking the container to a collection point from where it can be collected by an approved service provider.



SAFETY DATA SHEET

CROP GUARD®

Revision Date: 13/09/2023

Revision Number: 01

14. TRANSPORT INFORMATION

UN-No. : 2909

RID/ADR (rail/road)

Proper shipping name : PESTICIDE, LIQUID, TOXIC, N.O.S. (Furfural)

Class : 6.1

Subsidiary Class : None

Packaging Group : II

Risk label(s) : 6.1

Kemler-no. : 60

IMDG (sea)

Proper shipping name : PESTICIDE, LIQUID, TOXIC, N.O.S. (Furfural)

Class : 6.1

Packaging group : II

Risk label(s) : 6.1

Marine pollutant : -

MFAG/EmS : 300/6.1-01

Transport Pictogram



15. REGULATORY INFORMATION

Country specific general requirements

South Africa

REQUIREMENT

LEGAL REFERENCE AND ASPECT COVERED

Registration requirements

Fertilizer, Farm Feeds, Agricultural Remedies and Stock Remedies Act, 1947 (Act 36 of 1947) – registration to manufacture or sell an agricultural remedy.



SAFETY DATA SHEET CROP GUARD®

Revision Date: 13/09/2023

Revision Number: 01

Safety Data Sheet and occupational exposure limit requirements

Occupational Health and Safety Act (1993). Regulations for Hazardous Chemical Agents – 2021. Occupational safety requirements for hazardous chemicals.

SANS 10234: 2019. Globally Harmonized System of classification and labelling of chemicals (GHS). Summary of the GHS classification requirements and requirements for labels and Safety Data Sheets.

Control of handling of poisonous/hazardous and non-poisonous/non-hazardous substances/chemicals in industry and the workplace

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.

Extended Producer Responsibility

National Environmental Management: Waste Act, 2008 (Act No.59 of 2008) NEMWA: Extended Producer Responsibility Scheme for the Pesticide Sector.

Department of Environment, Forestry and Fisheries. National Environmental Management: Waste Act (59/2008): Regulations regarding extended producer responsibility.

Pesticide handling and storage safety

SANS10206: 2020. The Handling, Storage and Disposal of Pesticides. Occupational health and safety requirements for pesticides.

Transportation of dangerous goods

SANS 10228:2012 Edition 6: The identification and classification of dangerous goods for transport by road and rail modes.

Covers the identification of dangerous goods that can pose a significant risk to health and safety, or to property and the environment.

16. OTHER INFORMATION

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



SAFETY DATA SHEET CROP GUARD®

Revision Date: 13/09/2023

Revision Number: 01

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 Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
UN	United Nations

Reasonable effort was exercised to compile this SDS in accordance with the requirements of the Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

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

Illovo Sugar (South Africa) Proprietary Limited cannot anticipate or control all conditions under which this CROP GUARD® may be handled, used, and stored in the workplace. It therefore remains the obligation of each user, receiver, or handler to, prior to usage, review the content of this SDS in the context within which this product will be received, handled, or used in the workplace.

It must be ensured by the user, handler, or receiver that the necessary risk mitigating measures are in place with respect to health, safety, and environmental protection after conducting the relevant risk assessment in the workplace. It is also the responsibility of the receiver, handler, or user to communicate such information to all relevant parties that may be involved with and exposed to this product.

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AN ILLOVO SUGAR AFRICA COMPANY

SAFETY DATA SHEET CROP GUARD®

Revision Date: 13/09/2023

Revision Number: 01

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