

Safety Data Sheet

Amino Gluconate K

SDS No: SDS003/000

Effective Date: 24/08/2022

Revision no: 000

Product Code: 003

SECTION 1

COMPANY AND CHEMICAL PRODUCT IDENTIFICATION

Product Name: Amino Gluconate K
Chemical Identifier: Potassium Hydroxide
Product Use: Fertiliser
Restrictions on use: Agriculture

Supplier: In Line Trading 112 (Pty) Ltd. (Co. Reg. No. 2003/008663/07)
Cedar Lake Industrial Estate,
C/O M57 & Porcelain Roads, Olifantsfontein, 1666, Gauteng, RSA
Telephone: (011) 392 4072
Website: www.nutrico.co.za

Emergency Contact Numbers

Griffon Poison Information: +27 82 446 8946

SECTION 2

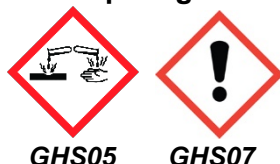
HAZARDS IDENTIFICATION

Classification as defined by Regulation (EC) 1272/2008 [CLP] EU & SANS 10234:2008

Hazard Classes	Hazard Category	Hazard Statement Code	Hazard Statements
Health			
Acute toxicity (oral)	4	H302	Harmful if swallowed
Acute toxicity (inhalation)	-	-	-
Acute toxicity (dermal)	-	-	-
Skin corrosion/irritation	1	H314	Causes severe skin burns and eye damage
Serious eye damage/irritation	1	H318	Causes serious eye damage
Reproductive toxicity	-	-	-
Environmental			
Hazardous to aquatic environment (acute)	-	-	-
Hazardous to aquatic environment (chronic)	-	-	-

Label elements: labelling as defined by Regulation (EC) 1272/2008 [CLP] EU & SANS 10234:2008

Hazard pictograms



Signal word - Danger

Precautionary statements

P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P264+P265	Wash hands thoroughly after handling. Do not touch eyes.
P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves/protective clothing/eye protection/face protection
P301+P317	IF SWALLOWED: Get medical help.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P302+P352	IF ON SKIN: wash with plenty of water
P302+P361+P354	IF ON SKIN: Take off Immediately all contaminated clothing. Immediately rinse with water for several minutes.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P354+P338	IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P316	Get emergency medical help immediately.
P332+P317	If skin irritation occurs: Get medical help.
P362+P364	Take off contaminated clothing and wash it before reuse.
P363	Wash contaminated clothing before reuse.
P405	Store locked up.
P501	Dispose of contents/container to in accordance with local regulation.

Special labelling of certain mixtures – None known

Other hazards – None known

Toxicity: Classification according to GHS: Category 4

SECTION 3 **COMPOSITION/INFORMATION ON INGREDIENTS**

Substance/Mixture: Mixture

Declared Active Ingredients:

Chemical name	CAS No.	EC No.	Conc. %w/w	Classification Regulation (EC) 1272/2008
Potassium Hydroxide	1310-58-3	215-181-3	<30%	H302, H314, H318

SECTION 4 **FIRST AID MEASURES**

Remove the affected person from the area of exposure. Wash off remaining material with plenty of water. In the event of any complaints or symptoms, avoid further exposure. Immediately consult a doctor.

INHALATION: Remove person from contaminated area to fresh air and assist breathing as needed. Seek medical attention if irritation persists.

SKIN: Remove contaminated clothing and shoes. Gently wipe off excess chemical. Wash skin gently and thoroughly with water and non-abrasive soap. Obtain medical attention if irritation persists.

EYES: Flush eyes with clean water for at least 15 – 20 minutes. Lift eyelids to facilitate irrigation. If present, remove contact lenses after 5 minutes and continue rinsing. **Seek medical attention immediately.**

INGESTION: Seek medical attention or call a poison control centre for treatment advice. Do not induce vomiting unless instructed to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person. If the person is alert, rinse mouth thoroughly with water and give 2 to 3 glasses of water to drink.

IMPORTANT ACUTE EFFECTS: Harmful if swallowed.
Causes severe skin burns and eye damage.
Causes serious eye damage.

IMPORTANT DELAYED EFFECTS: None.

NOTE TO PHYSICIAN: This product contains Potassium Hydroxide and Fulvic Acid. Treat symptomatically and supportively.

SECTION 5 **FIRE FIGHTING MEASURES**

Suitable Extinguishing Media: Use dry chemical, water fog, or foam.

Unsuitable Extinguishing Media: High volume water jet.

Specific hazards: None.

Special Fire Fighting Procedures: Remove spectators from surrounding area. Isolate the fire area and evacuate all personnel downwind of the fire. Fight fire from maximum distance and use unmanned hose holder or monitor nozzles. Keep upwind. Remove container from fire area if possible and without risk. Do not use high volume water jet, due to contamination risk. Do not scatter the burning material. Water can be used to cool unaffected containers but must be contained for later disposal. Contain fire control agents for later disposal. Avoid pollution of waterways by run-off from the site.

Personal protective equipment: Wear protective gloves/protective clothing/eye protection/face protection.

SECTION 6 **ACCIDENTAL RELEASE MEASURES**

Personal Precautions: Avoid contact with eyes. Do not breathe in spray mist or fumes. Ventilate area of spill or leak, especially in contained areas.

Protective equipment: Refer to Section 8 for personal protective equipment to be worn during containment and clean-up of a spill involving this product.

Emergency procedures: Alert firefighting personnel, evacuate unprotected personnel and animals.

Environmental Precautions: Prevent spilled product from entering sewers, waterways, or ground water. This product is classified to be toxic to aquatic organisms and causes long-term adverse effects in the aquatic environment. Any spillages or uncontrolled discharges into watercourses should be reported immediately to the police and the Department of Water/Environmental Affairs.

Methods & Materials for Containment: Contain spilled product by diking area with sand or earth.

Methods & Materials for Clean-up: Cover contained spill with an inert absorbent material such as sand, vermiculite, earth, or other appropriate material. Vacuum,

scoop, or sweep up material and place the material into a clean, dry, sealable container. Label containers with the contents and dispose of according to local regulations. Do not place spilled material back in original container. Do not re-use spill material. Collect washings and add to the drums already collected. Do not flush spilled material or washings into drains or waterways. To decontaminate the spill area, tools, and equipment, wash with water and suitable detergent. See section 13 for disposal considerations.

SECTION 7 **HANDLING AND STORAGE**

HANDLING

Precautions for safe handling:

Harmful if swallowed. Avoid contact with skin and eyes. Ensure adequate ventilation during handling and use. Do not handle broken packages without protective equipment. Immediately clean up spills that occur during handling. Keep containers closed when not in use.

General occupational hygiene:

Practice good hygiene when using this material. Wash hands before eating, drinking, chewing gum, smoking, using the toilet or applying cosmetics. Worker should shower at the end of each workday. Launder all clothing before it is re-used.

STORAGE

Conditions for safe storage:

Keep out of reach of unauthorised persons, children, and animals. Store in its original, labelled container, tightly closed, in an isolated, dry, cool, and well-ventilated area. Avoid excess heat. Not to be stored next to foodstuffs, feed, and water supplies.

Incompatible substances and mixtures: Refer to product label.

Packaging material: 5 L, 20 L, and 25 L drums.

SECTION 8 **EXPOSURE CONTROLS AND PERSONAL PROTECTION**

Permissible concentration: No occupational exposure limits have been determined for the significant ingredients in this product.

ENGINEERING CONTROLS:

It is essential to provide adequate ventilation. The measures appropriate for a particular worksite depend on how this material is used and on the extent of exposure. Local Exhaust: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OELs or other specified exposure limits. Local exhaust ventilation is preferred. Ensure that control systems are properly designed and maintained. Comply with occupational safety, environmental, fire, and other applicable regulations.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection:

For most well-ventilated conditions, no respiratory protection should be needed. If used in a poorly ventilated area, use a NIOSH approved air-purifying respirator.

Hand Protection:	The use of chemically protective gloves is recommended to prevent against skin contact.
Eye Protection:	The use of chemical safety goggles is recommended to prevent against eye contact. Contact lenses are not protective eye devices.
Skin and Body Protection:	Wear appropriate protective clothing; boots, hat, and equipment to prevent repeated or prolonged skin contact with this substance.
Emergency eyewash:	Where there is any possibility that a handler's eyes may be exposed to this substance; an eye wash fountain should be provided or appropriate alternative within the immediate work area for emergency use.

SECTION 9
PHYSICAL AND CHEMICAL PROPERTIES

Property	Value/description	Method
Physical state	Liquid	Visual
Colour	Brown	Visual
Odour	Pungent smell	Organoleptic
pH (1% aqueous dilution)	11.5	CIPAC MT 75.3
Melting/Freezing point	Not available	
Boiling point	Not available	
Flash point	95°C	
Flammability	Not flammable	
Vapour pressure	Not available	
Relative Vapour Density	Not available	
Density	1.43 g/ml	Pycnometer
Solubility	Soluble in water	
n-Octanol/Water partition coefficient	Not available	
Auto-ignition temperature	Not available	
Decomposition temperature	Not available	
Viscosity	Not available	
Explosive properties	Not explosive	
Oxidising properties	Not oxidative	

SECTION 10
STABILITY AND REACTIVITY

Chemical Stability:	The product is stable for two years at ambient temperature and pressure, under normal storage and handling conditions. Avoid storage under extreme temperatures and conditions. Store below 50 °C, preferably below 30 °C, and not for prolonged periods in direct sunlight.
Reactivity:	Water
Possibility of Hazardous Reactions:	Thermal decomposition can lead to release of irritating gases and vapors. Contact with metals may evolve flammable hydrogen gas. Water reactive.
Conditions to Avoid:	Exposure to liquids.
Incompatible Materials:	Refer to product label.
Hazardous Decomposition Products:	Potassium oxides.

SECTION 11
TOXICOLOGICAL INFORMATION

GHS Classification: H302 Harmful if swallowed
H314 Causes severe skin burns and eye damage
H318 Causes serious eye damage

Toxicity	Effective dose/ concentration	Value	Species	Method
Acute Oral	LD ₅₀	986 mg/kg		GHS ATE calculation
Acute Dermal	LD ₅₀	4098 mg/kg		GHS ATE calculation
Acute Inhalation	LC ₅₀	>5 mg/L		GHS ATE calculation
Skin irritation	Causes severe skin burns			GHS classification
Eye damage	Causes serious eye damage			GHS classification
Skin sensitization	Not classified as a skin sensitizer			
Respiratory sensitization	Not classified as a respiratory sensitizer			
Mutagenicity/Genotoxicity	Not classified as a mutagen and not genotoxic			
Carcinogenicity	Not classified as a carcinogen			
Reproductive toxicity	Not classified as a reproductive toxicant			
Single target organ toxicity	Not classified as a target organ toxicant			
Chronic effects (e.g developmental)	None known			

SECTION 12
ECOLOGICAL INFORMATION

GHS Classification: Not classified

Toxicity	Effect dose/ concentration	Value	Test duration	Species	Method
Aquatic Fish Crustacea Algae	LC ₅₀ NOEC EC ₅₀ NOEC EC ₅₀	Data not available	-	-	-
Terrestrial Birds Bees Earthworms/Arthropods	LD ₅₀ LC ₅₀ LD ₅₀ (contact) LD ₅₀ (oral) -	Data not available	-	-	-

ENVIRONMENTAL EFFECTS

Persistence and degradability:

Persistence is unlikely

Bio-accumulative Potential:

Not determined

Mobility in soil:

Due to its water solubility, it is likely to be mobile in the soil.

Other adverse effects:

Not determined.

SECTION 13 **DISPOSAL CONSIDERATIONS**

Hazardous waste according to Directive 2008/98/EC (waste framework directive).

Waste: Open dumping or burning of this product is prohibited. Waste resulting from the use of this product cannot be reused or re-processed. Never pour untreated waste or surplus product into public sewers or where there is any danger of run-off or seepage into water systems. Do not contaminate rivers, dams or any other water sources with the product or used containers. Comply with local legislation applying to waste disposal. The product may be taken to a registered waste disposal site or incineration plant.

Container: Emptied containers retain product residues. Do not re-use the empty container for any other purpose. Triple rinse empty containers by inverting the empty container over the spray or mixing tank and allow draining for at least 30 seconds after the flow has slowed down to a drip. Thereafter, rinse the container three times with a volume of water equal to a third of that of the container. Add the rinsing to the contents of the spray tank before destroying the container in the prescribed manner. Destroy the container by perforating and flattening and dispose of through an approved waste dump site, incineration plant or recycling company. Observe all labelled safeguards until container is destroyed.

SECTION 14 **TRANSPORT INFORMATION**

UN Number: 1760

Road Transport ADR/IRD:

Class: 8

Packaging group: III

UN Proper Shipping Name: CORROSIVE LIQUID, N.O.S.

Maritime Transport IMDG/IMO:

Class:8

Packaging group: III

UN Proper Shipping Name: CORROSIVE LIQUID, N.O.S.

Marine Pollutant (Y/N): No.

Air Transport IATA/ICAO:

Class: 8

Packaging group: III

UN Proper Shipping Name: CORROSIVE LIQUID, N.O.S.

Special/Environmental Precautions: Wedge drums tightly to avoid movement.

Transport in bulk (according to MARPOL 73/78, Annex II and the IBC code): Not available.

SECTION 15 **REGULATORY INFORMATION**

Safety, health and environmental regulations/legislation for the mixture/substance:

OHSA 1993 Regulations for Hazardous Chemical Substances.

Relevant information regarding restrictions: None.

EU regulation: Regulation EC1272/2008 (EU-GHS/CLP)

Other national regulations: None.

Chemical Safety Assessment carried out? No chemical safety assessment was carried out for this product.

SECTION 16
OTHER INFORMATION

PACKAGING:

Packed in 5, 20, and 25 L plastic containers and drums/bags, labelled according to South African regulations and guidelines.

DISCLAIMER:

The information on this sheet is not a specification; it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage and use of the product. It is not applicable to unusual or non-standard uses of the product nor where instructions or recommendations are not followed. All information is given in good faith but without guarantee in respect of accuracy, and no responsibility is accepted for errors and omissions or the consequence thereof.