

Safety Data Sheet (SDS) GENG SL/01

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According to UN GHS 9th edition
Revision Date: 2023/01/16

First print date: 2019/03/20

Version: 2.2

SECTION 1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY/UNDERTAKING

Product identifier:

Identification as on the label/Trade name: **GENIE™ GRO**

Additional information: Product code GENG SL/01

Relevant identification uses of the substance and uses advised against:

Identified uses: Plant fertilizer.

Uses advised against: Use only as directed.

Details of the supplier of the Safety Data Sheet:

AECI Limited
14 Field Road, LILANTON

Emergency telephone numbers:

Griffon Poison information centre: 082 446 8946
Poisons Information Helpline: 0861 555 777
AECI Limited: (011) 823 8000 (o/h) Spill Tech: 086 100 0366 (a/h)

SECTION 2. HAZARD IDENTIFICATION

Classification of the substances or mixture

Genie™ Gro is not GHS classified and is not considered hazardous according to the criteria in South Africa: GHS Classification and Labelling of Chemicals – SANS 10234, and the South African Regulations for Hazardous Chemical Agents – 2021.

This SDS contains valuable information critical to the safe handling of this mixture. The SDS should be retained and available to employees and other persons who may be exposed to/come into contact the product.

For full text of H statements see section 16

The most important adverse effects

The most important adverse physiochemical effects: None.

The most important adverse human health effects: The product has a low acute oral, dermal and inhalation toxicity. Could cause skin and eye irritation in sensitive individuals.

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Label elements

Hazard pictograms:

Not applicable as the product is not GHS classified.

Signal Word: No Signal Word required.

Hazard Statements: Not applicable.

Precautionary Statements:

General – P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children.
P103 - Read carefully and follow all instructions.

Prevention – P280 Wear impervious rubber gloves and boots, protective clothing, and chemical safety glasses.

Disposal – P501 Dispose of contents/container in accordance with local and national regulations.

Special labelling of certain mixtures: None.

Other hazards: None

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture

Ingredients:

K-Humate is not hazardous in terms of the South African Regulations for Hazardous Chemical Agents – 2021.

Substance name (IUPAC)	CAS –No.	Concentration % By weight	Classification
	EC-No.		
Fulvic acid	479-66-3	20 – 30%	Acute Toxicity Oral (Category 4), H302. Acute Toxicity Dermal, (Category 4), H312. Acute Toxicity inhalation, (Category 4), H332.
	610-395-7		

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4. FIRST AID MEASURES

Description of first aid measures:

In case of inhalation: If inhaled, remove to fresh air. Keep person at rest and warm. Treat symptomatically and supportively as and when required. Obtain medical advice if necessary.

In case of skin contact: In case of contact, flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Obtain medical attention if irritation occurs and persist.

In case of eye contact: Check for and remove any contact lenses. In case of contact, hold eyelids apart and immediately flush eyes with plenty of water for at least 15 minutes. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Cold water may be used. Obtain medical attention if irritation occurs and persists.

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In case of ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If conscious, rinse mouth thoroughly with water. Loosen tight clothing such as a collar, tie, belt, or waistband. If vomiting occurs, lean patient forward or place on the left side (head-down position, if possible) to maintain an open airway and prevent aspiration. Refer for medical attention if you feel unwell.

Most important symptoms and effects, both acute and delayed:

Inhalation: None known.

Ingestion: None known.

Skin contact: Prolonged contact may cause irritation in sensitive individuals.

Eye contact: Prolonged contact may cause irritation in sensitive individuals.

Indication of any immediate medical attention and special treatment needed:

There is no specific antidote. Treat symptomatically and supportively.

SECTION 5. FIRE -FIGHTING MEASURE

Extinguisher media:

Suitable extinguisher media:

SMALL FIRE: Extinguish small fires with carbon dioxide, dry powder, or alcohol-resistant foam.

LARGE FIRE: Water spray can be used for larger fires or cooling of unaffected stock but avoid the accumulation of polluted run-off from the site

Unsuitable extinguishing media:

Do not use a solid water stream/high volume water jet as it may scatter and spread the fire.

Special hazards arising from the mixture:

In the event of fire, do not breathe fumes. Oxides of carbon may form as combustion products.

Advice for fire-fighters:

Stay at a maximum distance and avoid inhaling hazardous vapours. Keep container cool by spraying with water.

Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear. Be sure to use an approved/certified respirator or equivalent.

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 MEASURE

Personal precautions, protective equipment, and emergency procedures:

For non-emergency personnel: Isolate area. Keep unnecessary and unprotected personnel from entering the area. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection. Avoid contact with skin, eyes, and clothing.

For emergency responders: Do not breathe in fumes/vapours/spray mist and avoid contact of the spilt material with eyes, skin, or clothes. Wear appropriate protective clothing recommended in Section 8 of the SDS. Limit the access to emergency responders only. Isolate and ventilate the area of the spill or leak, especially when in confined areas. Do not touch or walk through spilled material as this could cause contamination. Contain spills if it can be done without risk and clean-up immediately.

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Environmental precautions:

Prevent spillage if safe to do so. Do not allow the spilt product to enter water courses and drains or to spread to other areas - keep the spilt material contained and isolated. Avoid contact with soil. Report spills and releases as required to appropriate authorities if it has caused environmental pollution (sewers, water ways, soil, or air).

Methods for containment and cleaning up:

For small spills: Contain spilled material. Cover the spill with absorb material from the spill kit (e.g., absorbent powder or scatter). Sweep together and scoop up with a shovel. Place the material in a labelled container for disposal. Dispose of collected spilt material in accordance with local requirements and national regulations. Clean the contaminated surface with water to remove any residues of the spilt product. Keep the wash water out of drains, sewers, and waterways.

For large spills. Prevent entry into sewers, water courses, basements, or confined areas. Wash spill ages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g., absorbent booms, pillows, or mats. Place spill residues into labelled containers for disposal according to local requirements and national regulations. Wash the affected area with water. Keep the wash water out of drains, sewers, and waterways.

Reference to other sections:

See section 1 for emergency contact information.
See section 7 for information on safe handling.
See section 8 for information on personal protection equipment.
See section 13 for information on disposal.

Additional information:

None known.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling:

Provide adequate information, instruction, and training to operators working with the product. Wear personal protective equipment during handling as described in Section 8 of this SDS. Avoid contact with skin, eyes, and clothing. Always provide good ventilation. Wash the hands thoroughly with soap after handling.
Remove contaminated clothing if the product gets inside and wash before re-use.

Protective measures: Observe directions on label and instructions for use.

Advice on general occupational hygiene: Do not eat drink or smoke when handling the product.

Regular cleaning of work area and work clothing is recommended. Maintain good normal industrial hygiene and housekeeping practices in areas where the product is handled/stored.

Conditions for safe storage, including incompatibilities:

Store the product in a segregated and secured area. Keep storage area cool and well-ventilated and storage containers tightly closed. Store only in properly labelled containers. Keep out of reach of children, uninformed persons, and animals. Check the condition of the storage area periodically (e.g., for leaks, spills, etc.). Store in accordance with national and local regulations.

Incompatible with acids.

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Specific end uses:

Use as directed. Use original container.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters:

Occupational exposure limits (OEL): None

Biological exposure indices (BEI): None

Additional exposure limits under the conditions of use:

Exposure control: Handle only in a well-ventilated area and in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. A Risk Assessment should be conducted before handling is to commence to determine specific exposure control.

Appropriate engineering controls: Good general ventilation should be sufficient to keep the airborne concentrations as low as possible. Ensure adequate ventilation in confined areas.

Hygiene measures: Wash hands thoroughly after handling the product, before eating, smoking, and using the lavatory, and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location and are easily accessible. Handle the product in accordance with good industrial hygiene and safety practice. Keep the product away from food, drink, and animal feeding stuffs.

Eye/face protection: Safety glasses or goggles are recommended.

Hand protection: Use chemical resistant gloves when handling the product for long periods of time. Elbow length impervious chemical resistant gloves recommended for hand protection (e.g., Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, Polyvinyl alcohol, Polyvinyl chloride etc.). Always select skin and hand protection based on the task being performed and the risks involved with the task.

Body protection: Work clothes including coveralls, shoes, and socks are required to prevent skin contact and contamination of personal clothing. Keep working clothes separately.

Respiratory protection: Not required if the work area is well ventilated. Respiratory protection is required when ventilation is inadequate, when discomfort is experienced or in case of emergencies; a dust mask is recommended.

Environmental exposure controls: Prevent product from entry into sewers and water courses.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance (form): Liquid.

Colour: Dark brown.

Odour: Pungent fish smell.

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Odour threshold: No information available.

pH (at concentration): 3 - 5.

Melting point/range (°C): No information available.

Boiling point/range (°C): >100°C.

Flash point (°C): No information.

Evaporation rate: No information available.

Flammability (solid, gas): No information available

Ignition temperature (°C): No information available.

Upper/lower flammability/explosive limits: No information available.

Vapour pressure (20°C): No information available.

Vapour density: No information available.

Density: No information available.

Specific gravity: 1.06.

Water solubility (g/l) at 20°C: Soluble.

n-Octanol/Water partition coefficient: No information available.

Auto-ignition temperature: No information available.

Decomposition temperature: No information available.

Viscosity, dynamic (mPa s): No information available.

Physical hazards:

Explosive properties: Not explosive.

Other information:

Fat solubility (solvent-oil to be specified): No information available.

Bulk density: No information available.

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Dissociation constant in water (p Ka): No information available.

Oxidation-reduction potential: No information available.

SECTION 10. STABILITY AND REACTIVITY

Reactivity:

The product is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure. Hazardous polymerization will not occur.

Chemical stability:

Stable under normal storage conditions for 2 years.

Possibility of hazardous reactions:

Hazardous polymerization will not occur. Hazardous reactions will not occur under normal transport or storage conditions.

Conditions to avoid:

Storage without ventilation and excessive heat/moisture conditions during storage. Avoid contact with strong acids and oxidising agents.

Incompatible materials:

Strong acids and oxidising agents.

Hazardous decomposition products:

Oxides of carbon.

SECTION 11. TOXICOLOGICAL INFORMATION

Toxicokinetics, metabolism and distribution:

Non-human toxicological data: No Information available.

Information on likely routes of exposure:

The main routes of exposure to the product will be dermal and inhalation although ocular exposure is also possible.

Information on toxicological effects:

The product has no known toxic effects.

Acute toxicity: The product has no known acute toxicity effects.

Oral: LD₅₀ > 2000 mg/kg bw (Rat).

Dermal: LD₅₀ > 2000 mg/kg bw (Rat).

Inhalation: LC₅₀ > 5mg/L (Rat).

Chronic toxicity: No information available.

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Skin corrosion/Irritation: Based on available data, the classification criteria are not met.

Serious eye damage/irritation: Based on available data, the classification criteria are not met.

Respiratory or skin sensitization: Based on available data, the classification criteria are not met.

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

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

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

STOT-single exposure: Based on available data, the classification criteria are not met.

STOT-repeated exposure: Based on available data, the classification criteria are not met.

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

SECTION 12. ECOLOGICAL INFORMATION

Toxicity:

This product is expected to be of low aquatic toxicity.

Persistence and degradability:

No data available.

Bioaccumulative potential:

No data available.

Mobility in soil

Expected to be mobile in soil due to its solubility.

Other adverse effects:

No information available.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste handling and disposal:

Avoid and minimize the generation of waste.

Do not wash down drains. Dispose of the product in accordance with the local/national regulations. Prevent the contamination of water, food, or feed by storage or disposal of the product's 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.

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Product/ packaging disposal:

Dispose of contaminated packaging as required by the legislation. Do not reuse or refill containers. Triple rinse container (or equivalent) promptly after emptying 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.

SECTION 14. TRANSPORT INFORMATION

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO/IATA)
UN-Number	Not required	Not required	Not required
UN Proper shipping name:	Not required	Not required	Not required
Transport hazard class:	Not required	Not required	Not required
Transport hazard class pictogram:	Not required	Not required	Not required
Transport subsidiary hazard class pictogram:	Not required	Not required	Not required
Packaging group:	Not required	Not required	Not required
Marine pollutant:	Not required	Not required	Not required
Special precautions for user:	Not required	Not required	Not required
Transport in bulk according to MARPOL 73/78 Annex II and the IBC code	Not required	Not required	Not required

Inland waterways: Not required

Emergency response information: Not required

SECTION 15. REGULATORY INFORMATION

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

Relevant information regarding authorization: Occupational Health and Safety Act 1993. Regulation for Hazardous Chemical Agents, 2021. UN Recommendations on the Transport of Dangerous Goods Model Regulations Rev. 22 (2021). Globally Harmonized System of Classification and Labelling of Chemicals (GHS) Rev 9, 2021.

ACGIH: American Conference of Governmental Industrial Hygienists (ACGIH).

Relevant information regarding restrictions:

EU regulations: Regulation EC 1272/2008 [EU-GHS/CLP].

Other National regulations: National Road Traffic Act, 1996 (ACT NO. 93 of 1996).

SANS 10228:2012- The identification and classification of dangerous goods for transport by road and rail modes. National Environmental Management: Waste Act 59 of 2008.

Chemical Safety Assessment carried out? No

SECTION 16. OTHER INFORMATION

Indication of changes:

All sections. GHS aligned.

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Relevant classification and H statements (number and full text):

H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled.

Training instructions:

Use as indicated on the label, special training may be required for application.

Further information:

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

Key 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
CAS Number	Chemical Abstracts Service Number
COD	Chemical Oxygen Demand
ECHA	European Chemicals Agency
EC50	Half Maximal Effective Concentration
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
LD50	Lethal Dose 50
LC50	Lethal Concentration 50
RID	The Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STOT	Specific Target Organ Toxicity
TWA	Time Weighted Average
UN	United Nations

Notice to readers:

Employers should use this information only as a supplement to other information gathered by them and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees.

This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.