

PRODUCT SDS: Autus Gold

1. Identification

Product Name	Autus Gold
Alternative Name	Humic acid, Humates, Fulvates, Fulvic acid
Recommended Use	Agriculture, Turf and Ornamental
Manufacturer & Distributor information Corporate Office	Autus Fertilizer Pty (Ltd.) Block C, 322 Rivonia Close Rivonia Boulevard Sandton South Africa
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Email	Taz@autusgrowth.co.za
Contact Person	Taz Viljoen – (+27) 82 506 7818
Emergency Number	

2. Hazard Identification

Physical hazard	No applicable GHS categories
Health Hazard	May cause eye irritation; irritant to the mouth, throat and stomach if ingested.
Environmental Hazard	No applicable GHS categories
Label Element	No applicable GHS categories
Other Hazard	No applicable GHS categories

3. Composition

Mixture

<u>Chemical name</u>	<u>Synonym Common Name</u>	<u>SA Registration(Act 36 of 1947)</u>
Autus Gold	Humates, Fulvates, Fulvic Acid, Humic Acid	Group II Fertilizer - B 5218

4. First Aid Measures

Inhalation	Move Victim to well ventilated area. If breathing is irregular, administer Oxygen. If breathing should stop, start CPR. Obtain medical attention.
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Skin Contact	Remove contaminated clothing. Rinse skin Under running water. If skin irritation persists after rinsing: obtain medical attention.
Eye Contact	Rinse eyes under running water (15mins). If irritation persists: seek medical attention.
Ingestion	Rinse mouth thoroughly. IF INGESTED: Call POISON CENTER OR CONTACT DOCTOR. Drink plenty of water and then induce vomiting. Obtain medical attention.
Most important symptoms/effects: acute or delayed	Irritation of eyes
General information	Seek medical attention if any irritation exists

5. Firefighting Measures

Extinguishing media	Use Media appropriate for surrounding fire
Special Hazards arising from substance or media	During fire, gases hazardous to health may be formed. Heating (flames) of closed or sealed containers may cause violent rupture of container due to thermal expansion of compressed gases. If exposed to substance <u>refer to section 4</u> .
Advice for firefighter	Approach fire with appropriate firefighting uniform and equipment. Move storage containers away from fire if safe to do so. Keep storage containers cool with water spray if in fire. If firefighter experiences any irritations: He/she must obtain medical attention

6. Accidental release measure

Personal precautions, protective equipment and emergency procedures	Move people away from spillage. Wear appropriate protective clothing. If possible minimise spillage area. If spillage area is large: contact local authorities
Environmental precautions	Avoid environmental spillage. Contact local authorities in the event of spillage to aquatic environment.
Methods and material for containment and cleaning up	Always wear protective uniform when cleaning up spill. <u>Refer to section 8</u>
Small spill	Clean up with cloth and rinse area with water. Other basic cleaning equipment suitable for clean-up. Clean all equipment after use
Large spill	Contain spillage area by diking spilled material. Absorb with vermiculate
Reference to other sections	<u>Refer to section 13</u> for suitable disposal

7. Handling and storage

Precautions for safe handling

Do NOT ingest (breathing or swallow). Wear protective clothing and observe good industrial hygiene practices. Always wash hands and equipment after handling. Do not eat or drink close to storage of material.

Conditions for safe storage, including any incompatibilities

Store in original container. Store in cool dry area out of direct sunlight. Ensure that containers are tightly sealed and prevent mixing of foreign materials unless advised otherwise by manufacturer. Refer to section 10 for incompatible materials.

8. Exposure controls/personal protection

Control parameters

N/A - No established limits

Engineering controls

Provide eyewash station and suitable ventilation.

Exposure controls

Respiratory

If area does not have good ventilation: wear suitable respiratory equipment.

Eyes

Wear protective glasses or goggles.

Skin

Wear appropriate protective clothing and gloves when handling material.

General hygiene considerations

Do not smoke, eat or drink when handling material. Wash clothing and hands regularly.

9. Physical and chemical properties

Appearance

Dark yellow to dark brown

Odour

Musty

pH

9-11 pH

Melting/freezing point

N/A

Initial boiling point and boiling range

N/A

Flash point

800 degrees celcius

Evaporation rate

Not measured

Flammability

N/A

Upper flammability or explosive limits

N/A

Lower flammability or explosive limits

N/A

Vapour pressure

Not available

Vapour density

Not available

Specific gravity

Not available

Solubility in water

Yes-soluble

Partition coefficient n-octanol/water (Log Kow)

Not measured

Auto-ignition temperature

Not measured

decomposition temperature

Not measured

Viscosity

Not measured

Other
Storage Indefinite under suitable conditions

10. Stability and reactivity

Reactivity Avoid interaction with heat (flames), oxidizers, acids or alkalis (see details below in this section).
Chemical stability Stable under normal conditions
Possibility of hazardous reactions None Known
Conditions to avoid Temperatures above 49°C and below 0°C
Hazardous decomposition products None Known

11. Toxicological information

Information on toxicological effects
Oral Not determined
Inhalation Not determined
Skin contact Not determined
Eyes contact Not determined
Chronic N/A
Reproductive No data available
Mutagenicity No data available

12. Ecological information

Toxicity No data available
Persistence and degradability No data available
Bio-accumulative potential Not measured
Mobility in soil Not determined
Results of PBT and vPvB assessment N/A
Other adverse effects No additional data available other adverse effects

13. Disposal considerations

Waste treatment methods Dispose of in accordance to local legislation and environmental regulations. Do not dispose of in ponds, waterways or any aquatic environment.
Contaminated product Do not return contaminated material or spilled material back into uncontaminated material or storage packaging
Packaging Packaging may be reused or recycled unless packaging is contaminated or broken then it should be discarded in accordance with local legislation.

14. Transport information

UN number N/A
UN proper shipping name N/A
Transport hazard class(es) Not regulated as dangerous goods
Packing group N/A
Environmental hazards

15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture	Not classified as a substance hazardous for supply
Chemical safety assessment	Not regulated

16. Additional information

All information and instructions provided in this Safety Data Sheet (SDS) are based on the current state of scientific and technical knowledge at the date indicated on the present SDS and are presented in good faith and believed to be correct, it is provided for your guidance only. This information applies to the PRODUCT AS SUCH. In case of new formulations or mixes, it is necessary to ascertain that a new danger will not appear.

It is the responsibility of persons in receipt of this SDS to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. If the recipient subsequently produces formulations containing this product, it is the recipient's sole responsibility to ensure the transfer of all relevant information from this SDS to their own SDS.

Date of latest revision of SDS 08-2018

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