

## **PRODUCT SDS: Autus Green**

### 1. Identification

Product Name	Autus Green
Alternative Name	Fulvic Acid, Fulvates, Urea Fulvates
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
Telephone	(+27) 011 234 9604
Website	<a href="http://www.autusgrowth.co.za">www.autusgrowth.co.za</a>
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 Green	Fulvates, Fulvic Acid, Urea	Group II Fertilizer - B 5219

### 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.
------------	---

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

Yellow to Dark Brown Liquid

### Odour

Musty

### pH

3.0-3.5 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

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

#### 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

**DISCLAIMER:** Every endeavour has been made to ensure that the information contained in this leaflet is accurate and reliable. Autus Fertiliser (Pty) Ltd cannot accept liability for any loss, injury or damage which may result from its use. No warranty, expressed or implied, is made concerning the use of this product. The user retains the responsibility to ensure that the product is suitable for its intended application.