



# SAFETY DATA SHEET

## GREEN OUT

Infosafe No.: X01DT

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Issued by: SST AUSTRALIA PTY LTD

### 1. IDENTIFICATION

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**GHS Product Identifier**

GREEN OUT

**Product Code**

9733

**Company Name**

SST AUSTRALIA PTY LTD

**Address**

Level 3, 35 Cotham Road, Kew, Victoria 3101  
Australia

**Telephone/Fax Number**

Telephone: 03 9720 6306 Fax number: 03 9720 6407

**Emergency phone number**

1800 638 556

**E-mail Address**

compliance@axieo.com

**Recommended use of the chemical and restrictions on use**

Blue green dye marker for turf

### 2. HAZARD IDENTIFICATION

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**GHS classification of the substance/mixture**

Classified as Hazardous according to the Globally Harmonised System of classification and labelling of chemicals (GHS) including Work, Health and Safety regulations, Australia

Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

Flammable Liquids: Category 3

Eye Damage/Irritation: Category 2A

STOT Single Exposure: Category 2

Hazardous to the Aquatic Environment - Acute Hazard: Category 2

Hazardous to the Aquatic Environment - Long-Term Hazard: Category 3

**Signal Word (s)**

WARNING

**Hazard Statement (s)**

H226 Flammable liquid and vapour.

H319 Causes serious eye irritation.

H371 May cause damage to organs .

H401 Toxic to aquatic life.

H412 Harmful to aquatic life with long lasting effects.

**Pictogram (s)**

Flame, Health hazard, Exclamation mark



#### Precautionary statement – Prevention

P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking.  
 P233 Keep container tightly closed.  
 P240 Ground/bond container and receiving equipment.  
 P241 Use explosion-proof electrical/ventilating/lighting/equipment.  
 P242 Use only non-sparking tools.  
 P243 Take precautionary measures against static discharge.  
 P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
 P264 Wash contaminated skin thoroughly after handling.  
 P270 Do not eat, drink or smoke when using this product.  
 P273 Avoid release to the environment.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.

#### Precautionary statement – Response

##### GENERAL

P309+P311 IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.  
 P370+P378 In case of fire: Use water spray, dry chemical, foam, carbon dioxide for extinction.

##### EYES

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

##### SKIN

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

#### Precautionary statement – Storage

P403+P235 Store in a well-ventilated place. Keep cool.  
 P405 Store locked up.

#### Precautionary statement – Disposal

P501 Dispose of contents/container to an approved waste disposal plant.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Ingredients

Name	CAS	Proportion
Ethanol	64- 17- 5	10- <25 %
Methanol	67- 56- 1	1- <2. 5 %
Malachite Green, oxalate	2437- 29- 8	0. 1- <0. 5 %
Ingredients determined not to be hazardous		Balance

### 4. FIRST-AID MEASURES

#### Inhalation

If inhaled, remove affected person from contaminated area. Keep at rest until recovered. If symptoms develop and/or persist seek medical attention.

#### Ingestion

Do not induce vomiting. Wash out mouth thoroughly with water. Seek immediate medical attention.

#### Skin

Wash affected area thoroughly with soap and water. If symptoms develop seek medical attention.

**Eye contact**

If in eyes, hold eyelids apart and flush the eyes continuously with running water. Remove contact lenses. Continue flushing for several minutes until all contaminants are washed out completely. Seek medical attention.

**First Aid Facilities**

Eyewash, safety shower and normal washroom facilities.

**Advice to Doctor**

Treat symptomatically.

**Other Information**

For advice in an emergency, contact a Poisons Information Centre or a doctor at once. (131 126)

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## 5. FIRE-FIGHTING MEASURES

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**Suitable Extinguishing Media**

Carbon dioxide, dry chemical, foam, water mist or water spray. Alcohol resistant foam is preferred. If not available normal foam can be used.

**Unsuitable Extinguishing Media**

Do not use water jet.

**Hazards from Combustion Products**

Under fire conditions this product may emit toxic and/or irritating fumes, smoke and gases including hydrocarbons, carbon monoxide, carbon dioxide and oxides of nitrogen.

**Specific Hazards Arising From The Chemical**

Flammable liquid and vapour. Vapour/air mixtures may ignite explosively. Flashback along the vapour trail may occur. Runoff to sewer may create fire or explosion hazard.

**Hazchem Code**

•3Y

**Decomposition Temperature**

Not available

**Precautions in connection with Fire**

Fire fighters should wear full protective clothing and self-contained breathing apparatus (SCBA) operated in positive pressure mode. In case of fire the product may be violently or explosively reactive. Use water spray to disperse vapours. This product should be prevented from entering drains and watercourses.

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## 6. ACCIDENTAL RELEASE MEASURES

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**Emergency Procedures**

Wear appropriate personal protective equipment and clothing to prevent exposure. Extinguish or remove all sources of ignition and stop leak if safe to do so. Increase ventilation. Evacuate all unprotected personnel. If possible contain the spill. Place inert absorbent, non-combustible material onto spillage. Use clean non-sparking tools to collect the material and place into suitable labelled containers for subsequent recycling or disposal. Dispose of waste according to the applicable local and national regulations. If contamination of sewers or waterways occurs inform the local water and waste management authorities in accordance with local regulations.

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## 7. HANDLING AND STORAGE

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**Precautions for Safe Handling**

Avoid contact with skin and eyes. Wear overalls, impervious gloves and safety glasses. Use in designated areas with local exhaust ventilation, away from sparks, flames and other ignition sources. Use approved flammable liquid storage containers in the work area. Prevent release of vapours and mists into workplace air. Keep containers tightly closed. Take precautionary measures against static discharges. Do not empty into drains. Ensure a high level of personal hygiene is maintained when using this product, that is, always wash hands before eating, drinking, smoking or using the toilet facilities.

**Conditions for safe storage, including any incompatibilities**

Store in a cool, dry, well-ventilated area away from sources of ignition, oxidising agents, strong acids, foodstuffs, and clothing. Keep containers closed when not in use, securely sealed and protected against physical damage. Inspect regularly for deficiencies such as damage or leaks. Have appropriate fire extinguishers available in and near the storage

area. Take precautions against static electricity discharges. Use proper grounding procedures. Ensure that storage conditions comply with applicable local and national regulations.

For information on the design of the storeroom, reference should be made to Australian Standard AS1940 - The storage and handling of flammable and combustible liquids. Reference should also be made to all applicable local and national regulations.

#### Storage Temperatures

Store at temperatures not exceeding 20°C

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Occupational exposure limit values

Substance	Regulations	Exposure Duration	Exposure Limit	Units	Notes
Methanol	Safe Work Australia	TWA	200	ppm	skin
Methanol	Safe Work Australia	TWA	262	mg/m3	skin
Methanol	Safe Work Australia	STEL	250	ppm	skin
Methanol	Safe Work Australia	STEL	328	mg/m3	skin
Ethanol	Safe Work Australia	TWA	1000	ppm	
Ethanol	Safe Work Australia	TWA	1880	mg/m3	

### Biological Limit Values

No biological limits allocated.

### Appropriate Engineering Controls

This substance is hazardous and should be used with a local exhaust ventilation system, drawing vapours away from workers' breathing zone. A flame-proof exhaust ventilation system is required. If the engineering controls are not sufficient to maintain concentrations of vapours/mists below the exposure standards, suitable respiratory protection must be worn. Refer to relevant regulations for further information concerning ventilation requirements.

Refer to AS 1940 - The storage and handling of flammable and combustible liquids and AS/NZS 60079.10.1:2009 Explosive atmospheres - Classification of areas - Explosive gas atmospheres, for further information concerning ventilation requirements.

### Respiratory Protection

If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable vapor/mist filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements.

Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

### Eye Protection

Safety glasses with side shields, chemical goggles or full-face shield as appropriate should be used. Final choice of appropriate eye/face protection will vary according to individual circumstances. Eye protection devices should conform to relevant regulations.

Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.

### Hand Protection

Wear gloves of impervious material. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Occupational protective gloves should conform to relevant regulations.

Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.

**Body Protection**

Suitable protective workwear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

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**Form**

Liquid

**Appearance**

Green liquid

**Colour**

Green

**Odour**

Alcoholic

**Decomposition Temperature**

Not available

**Melting Point**

Not applicable

**Boiling Point**

78-100°C (1013hPa)

**Solubility in Water**

Soluble

**Specific Gravity**

Not available

**pH**

Not applicable

**Vapour Pressure**

Not available

**Vapour Density (Air=1)**

Not applicable

**Evaporation Rate**

Not available

**Viscosity**

Refer to Section 9: Kinematic Viscosity and Dynamic Viscosity

**Volatile Component**

Not available

**Partition Coefficient: n-octanol/water**

Not available

**Flash Point**

45°C (approximate)

**Flammability**

Flammable

**Auto-Ignition Temperature**

Not available

**Flammable Limits - Lower**

Not available

**Flammable Limits - Upper**

Not available

**Explosion Properties**

Product is not explosive

**Oxidising Properties**

Product is not explosive

**Kinematic Viscosity**

Not available

**Dynamic Viscosity**

Not available

## 10. STABILITY AND REACTIVITY

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**Reactivity**

Refer to Section 10: Possibility of hazardous reactions.

**Chemical Stability**

Stable under normal conditions of storage and handling.

**Conditions to Avoid**

Heat, open flames and other sources of ignition.

**Incompatible materials**

Strong oxidising agents, acids and bases.

**Hazardous Decomposition Products**

Thermal decomposition may result in the release of toxic and/or irritating fumes including: carbon dioxide carbon monoxide,, oxides of nitrogen and hydrocarbons.

Does not decompose when used and stored as recommended.

**Possibility of hazardous reactions**

Reacts with incompatible materials.

**Hazardous Polymerization**

Not available

## 11. TOXICOLOGICAL INFORMATION

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**Toxicology Information**

Available toxicity data is given below.

**Acute Toxicity - Oral**

ATE (unknown species): 15,831mg/kg

**Acute Toxicity - Inhalation**

ATE (unknown) 47,993ppm (gases)

ATE (unknown): 205mg/l (vapours)

**Acute Toxicity - Dermal**

ATE (unknown species): 20,568mg/kg

**Ingestion**

Ingestion of this product may irritate the gastric tract causing nausea and vomiting.

**Inhalation**

Inhalation of product vapours may cause irritation of the nose, throat and respiratory system.

**Skin**

May be irritating to skin. The symptoms may include redness, itching and swelling.

Skin irritation

**Ethanol**

Species: rabbit

Primary dermal irritation index: 0 / 8

Dose: 0.2ml/24h

Result: non irritant

REACH dossier information

**Methanol**

Species: rabbit

Dose: 2.5cm x 2.5cm/20h

Erythema/eschar score: No erythema (0)

Oedema score: No oedema (0)

REACH dossier information

Based on available data the classification criteria are not met.

**Eye**

Causes serious eye irritation. On eye contact this product will cause tearing, stinging, blurred vision, and redness.

Methanol

Eye irritation

Species: rabbit

Dose: 0.05ml/24h

REACH dossier information

Based on available data the classification criteria are not met.

**Respiratory sensitisation**

Not expected to be a respiratory sensitiser.

**Skin Sensitisation**

Not expected to be a skin sensitiser.

Ethanol

Guinea pig maximization test (GPMT)

Result: mouse

Result: not sensitising

REACH dossier information

Read across data

Based on available data the classification criteria are not met.

Methanol

Guinea pig maximization test (GPMT)

Result: Guinea pig

Result: not sensitising

REACH dossier information

Based on available data the classification criteria are not met.

**Germ cell mutagenicity**

Not considered to be a mutagenic hazard.

Ethanol

Genotoxicity - in vitro

Gene mutation: negative

REACH dossier information

Based on available data the classification criteria are not met.

Genotoxicity - in vivo

Chromosome aberration: negative

REACH dossier information

Based on available data the classification criteria are not met.

**Carcinogenicity**

Not considered to be a carcinogenic hazard.

**Reproductive Toxicity**

Not considered to be toxic to reproduction.

Ethanol

Reproductive toxicity - fertility

Two-generation study:

Route: oral

NOAEL (mouse): 15%

REACH dossier information

Reproductive toxicity - development

Maternal toxicity:

Route: inhalation

NOAEL (rat): 16000ppm

REACH dossier information

**STOT-single exposure**

May cause damage to organs

**STOT-repeated exposure**

Not expected to cause toxicity to a specific target organ.

Ethanol

Route: oral

LOAEL (rat): 4ml/kg

REACH dossier information

Based on available data the classification criteria are not met.

**Aspiration Hazard**

Not expected to be an aspiration hazard.

**12. ECOLOGICAL INFORMATION**

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**Ecotoxicity**

Toxic to aquatic life.. Harmful to aquatic life with long lasting effects.

**Persistence and degradability**

Product

Volatile substances are degraded in the atmosphere within a few days.

Ethanol

Biodegradation Water - Degradation (74%): 10 days

REACH dossier information

The substance is readily biodegradable

Chemical oxygen demand 1.99g O<sub>2</sub>/g substance

REACH dossier information

Methanol

Phototransformation Air - DT50: 17.2 days

REACH dossier information

Biodegradation Water - Degradation (95%): 20 days

Water - Degradation (91%): 15 days

Water - Degradation (88%): 10 days

Water - Degradation (76%): 5 days

REACH dossier information

The substance is readily biodegradable

**Mobility**

Product

The product contains organic solvents which will evaporate easily from all surfaces. The product contains substances which are water-soluble and may spread in water systems.

Ethanol

Surface tension 24.5mN/m (20°C)

REACH dossier information

Methanol

Mobility: mobile

**Bioaccumulative Potential**

Ethanol

Partition coefficient log Pow: - 0.35

REACH dossier information

Methanol

Partition coefficient log Pow: -0.77



REACH dossier information

#### **Environmental Protection**

Do not discharge this material into waterways, drains and sewers.

#### **Acute Toxicity - Fish**

Ethanol

LC50 (*Pimephales promelas* (Fat-head Minnow)): 14200mg/l/96h

REACH dossier information

Methanol

LC50 (*Lepomis macrochirus* (Bluegill)): 15400mg/l/96h

EC50 (*Lepomis macrochirus* (Bluegill)): 12700mg/l/96h

REACH dossier information

#### **Acute Toxicity - Daphnia**

Ethanol

LC50 (*Ceriodaphnia dubia*): 5012mg/l/96h

REACH dossier information

Methanol

EC50 (*Daphnia magna*): 18260 mg/l/96h

REACH dossier information

#### **Acute Toxicity - Algae**

Ethanol

EC50 (*Chlorella vulgaris*): 11.5mg/l/72h

REACH dossier information

Methanol

EC50 (*Pseudokirchneriella subcapitata*): 22000mg/l/96h (approximately)

REACH dossier information

#### **Acute Toxicity - Bacteria**

Methanol

IC50 (Activated sludge): >1000mg/l/3h

REACH dossier information

#### **Other Information**

Ethanol

Chronic toxicity - aquatic invertebrates

NOEC (*Daphnia magna*): 9.6mg/l/96h

REACH dossier information

## **13. DISPOSAL CONSIDERATIONS**

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### **Disposal considerations**

Dispose of waste according to applicable local and national regulations. Labels should not be removed from containers until they have been cleaned. Advise flammable nature. Empty containers may contain flammable residues. Do not cut, puncture or weld on or near containers. Contaminated containers must not be treated as household waste. Containers should be cleaned by appropriate methods and then re-used or disposed of by landfill or incineration as appropriate. Do not incinerate closed containers. Wastes including emptied containers are controlled wastes and should be disposed of in accordance with all applicable local and national regulations. Do not allow into drains or watercourses or dispose of where ground or surface waters may be affected.

## **14. TRANSPORT INFORMATION**

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### **Transport Information**

This material is a Class 3 - Flammable Liquid according to The Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

Class 3 - Flammable Liquids are incompatible in a placard load with any of the following:

Class 1: Explosives

Division 2.1: Flammable gases

(Division 2.1 and Class 3 are incompatible in transport if both are in tanks or other receptacles with a capacity individually exceeding 500 L)

Division 2.3: Toxic gases

Division 4.2: Spontaneously combustible substances

Division 5.1: Oxidising substances

Division 5.2: Organic peroxides

Class 6: Toxic or Infectious Substances

(where the flammable liquid is nitromethane)

Class 7: Radioactive materials unless specifically exempted

**U.N. Number**

1993

**UN proper shipping name**

FLAMMABLE LIQUID, N.O.S. - (Contains Ethanol)

**Transport hazard class(es)**

3

**Packing Group**

III

**Hazchem Code**

•3Y

**Special Precautions for User**

Not available

**IERG Number**

14

**UN Number (Air Transport, ICAO)**

1993

**IATA/ICAO Proper Shipping Name**

Flammable liquid, n.o.s. - (Contains Ethanol)

**IATA/ICAO Hazard Class**

3

**IATA/ICAO Packing Group**

III

**IATA/ICAO Symbol**

Flammable Liquid

**IMDG UN No**

1993

**IMDG Proper Shipping Name**

Flammable liquid, n.o.s. - (Contains Ethanol)

**IMDG Hazard Class**

3

**IMDG Pack. Group**

III

**IMDG Marine pollutant**

No

**IMDG EMS**

F-E,S-E

**Transport in Bulk**

Not available

## 15. REGULATORY INFORMATION

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**Regulatory information**

Classified as Hazardous according to the Globally Harmonised System of classification and labelling of chemicals (GHS) including Work, Health and Safety regulations, Australia

Classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP)

**Poisons Schedule**

S5

**16. OTHER INFORMATION**

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**Date of preparation or last revision of SDS**

SDS Created: July 2016

**References**

Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice .

Standard for the Uniform Scheduling of Medicines and Poisons.

Australian Code for the Transport of Dangerous Goods by Road & Rail.

Model Work Health and Safety Regulations, Schedule 10: Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.

Workplace exposure standards for airborne contaminants.

Adopted biological exposure determinants, American Conference of Industrial Hygienists (ACGIH)..

Globally Harmonised System of classification and labelling of chemicals.

**Contact Person/Point**

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