



# SAFETY DATA SHEET

## CULMINATE

Infosafe No.: X01CJ

Version No.: 1.0

ISSUED Date: 01/07/2016

Issued by: SST AUSTRALIA PTY LTD

### 1. IDENTIFICATION

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**GHS Product Identifier**

CULMINATE

**Product Code**

9655

**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**

Application in agriculture as a source for sulphur and nitrogen. Product for blossom thinning of stone fruit.

### 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

Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

Acute Toxicity - Oral: Category 4

Acute Toxicity - Inhalation: Category 4

Eye Damage/Irritation: Category 2

Skin Corrosion/Irritation: Category 2

Hazardous to the Aquatic Environment - Acute Hazard: Category 2

**Signal Word (s)**

WARNING

**Hazard Statement (s)**

H302 Harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H401 Toxic to aquatic life.

**Pictogram (s)**

Exclamation mark



#### Precautionary statement – Prevention

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
 P264 Wash contaminated skin thoroughly after handling.  
 P270 Do not eat, drink or smoke when using this product.  
 P271 Use only outdoors or in a well-ventilated area.  
 P273 Avoid release to the environment.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.

#### Precautionary statement – Response

##### GENERAL

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

##### 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

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P362 Take off contaminated clothing and wash before reuse.

P332+P313 If skin irritation occurs: Get medical advice/attention.

##### INGESTION

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P330 Rinse mouth.

##### INHALATION

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

#### Precautionary statement – Disposal

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

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Ingredients

Name	CAS	Proportion
Ammonium Thiosulphate	7783- 18- 8	30- 60 %
Ammonia, aqueous solution	1336- 21- 6	1- <3 %
Ingredients determined not to be hazardous		Balance

### 4. FIRST-AID MEASURES

#### Inhalation

If inhaled, remove affected person from contaminated area. Apply artificial respiration if not breathing. Seek medical attention.

#### Ingestion

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

#### Skin

Remove all contaminated clothing immediately. Wash affected area thoroughly with soap and water. Wash contaminated clothing before reuse or discard. 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)

## 5. FIRE-FIGHTING MEASURES

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**Suitable Extinguishing Media**

Carbon dioxide, dry chemical, foam, water mist or water spray.

**Hazards from Combustion Products**

Under fire conditions this product may emit toxic and/or irritating fumes and gases including: oxides of sulphur, ammonia and ammonium sulphate.

**Specific Hazards Arising From The Chemical**

This product is non combustible.

Not normally considered flammable, but may evolve ammonia gas at elevated temperatures.

**Hazchem Code**

None Allocated

**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. Fight fire from safe location.

Ammonia evolution may form explosive mixtures with air in concentrations of 16-25% ammonia. Heating the product to dryness may cause the release of ammonia, ammonium sulphate, sulphur and gaseous oxides of sulphur. Wear self-contained breathing apparatus and full protective wear. Oxides of sulphur are very corrosive to breathe. Keep containers cool with water spray and if safe, remove containers from fire path.

## 6. ACCIDENTAL RELEASE MEASURES

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**Emergency Procedures**

Wear appropriate personal protective equipment and clothing to prevent exposure. Increase ventilation. If possible contain the spill. Place inert absorbent material onto spillage. Collect the material and place into a suitable labelled container. Do not dilute material but contain. 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.

## 7. HANDLING AND STORAGE

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**Precautions for Safe Handling**

Avoid inhalation of vapours and mists, and skin or eye contact. Use only in a well ventilated area. Keep containers sealed when not in use. Prevent the build up of mists or vapours in the work atmosphere. Maintain high standards of personal hygiene i.e. washing hands prior to eating, drinking, smoking or using toilet facilities.

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

Store in a cool, dry, well-ventilated area, out of direct sunlight. Store in suitable, labelled containers. Keep containers tightly closed. Store away from incompatible materials. Ensure that storage conditions comply with applicable local and national regulations.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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**Occupational exposure limit values**

Substance	Regulations	Exposure Duration	Exposure Limit	Units	Notes
		TWA	25	ppm	(Ammonia)

Ammonia, aqueous solution	Safe Work Australia				
Ammonia, aqueous solution	Safe Work Australia	TWA	17	mg/m3	(Ammonia)
Ammonia, aqueous solution	Safe Work Australia	STEL	35	ppm	(Ammonia)
Ammonia, aqueous solution	Safe Work Australia	STEL	24	mg/m3	(Ammonia)
Ammonium Thiosulphate	Safe Work Australia	TWA	25	ppm	(Ammonia)
Ammonium Thiosulphate	Safe Work Australia	TWA	17	mg/m3	(Ammonia)
Ammonium Thiosulphate	Safe Work Australia	STEL	35	ppm	(Ammonia)
Ammonium Thiosulphate	Safe Work Australia	STEL	24	mg/m3	(Ammonia)

#### 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. If the engineering controls are not sufficient to maintain concentrations of vapours/mists below the exposure standards, suitable respiratory protection must be worn.

#### 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 such as rubber, PVC. 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

#### Form

Liquid

#### Appearance

Clear liquid

#### Colour

Not available

**Odour**

Slight ammoniacal

**Decomposition Temperature**

Not available

**Melting Point**

Not available

**Boiling Point**

Not available

**Solubility in Water**

Soluble

**Specific Gravity**

1.3 (20°C) (approximate)

**pH**

8.5-9.5

**Vapour Pressure**

Not available

**Vapour Density (Air=1)**

Not available

**Evaporation Rate**

Not available

**Odour Threshold**

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**

Not applicable

**Flammability**

Non combustible material.

**Auto-Ignition Temperature**

Not available

**Flammable Limits - Lower**

Explosive Limits in air 16% for any evolved ammonia.

**Flammable Limits - Upper**

Explosive Limits in air 25% for any evolved ammonia.

**Explosion Properties**

Not available

**Oxidising Properties**

Not available

**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**

Extremes of temperature and direct sunlight.

**Incompatible materials**

Incompatible with strong oxidisers, such as nitrates, nitrites or chlorates, which can cause explosive mixtures if heated to dryness. Incompatible with sodium hypochlorite, copper, zinc or their alloys, (bronze, brass, galvanised metals, etc). Acids will cause the release of sulphur dioxide, a severe respiratory hazard. Alkalies will accelerate the evolution of ammonia.

**Hazardous Decomposition Products**

Under fire conditions this product may emit toxic and/or irritating fumes and gases including: oxides of sulphur, ammonia and ammonium sulphate.

**Possibility of hazardous reactions**

Reacts with incompatible materials.

**Hazardous Polymerization**

Not available

## 11. TOXICOLOGICAL INFORMATION

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**Toxicology Information**

No toxicity data available for this material.

**Ingestion**

Harmful if swallowed. Ingestion of this product may cause irritation to the mouth, throat, oesophagus and stomach with symptoms of nausea, abdominal discomfort, vomiting and diarrhoea.

**Inhalation**

Harmful if inhaled. Inhalation of product vapours can cause irritation of the nose, throat and respiratory system. Inhalation of vapours or mists may cause irritation of the nose, throat and respiratory tract. Low levels of ammonia are present which may evolve small amounts of ammonia gas at room temperature. Human TClO is 408ppm for ammonia.

**Skin**

Causes skin irritation. Skin contact will cause redness, itching and swelling. Repeated exposure may cause skin dryness and cracking and may lead to dermatitis.

**Eye**

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

**Respiratory sensitisation**

Not expected to be a respiratory sensitiser.

**Skin Sensitisation**

Not expected to be a skin sensitiser.

**Germ cell mutagenicity**

Not considered to be a mutagenic hazard.

**Carcinogenicity**

Not considered to be a carcinogenic hazard.

**Reproductive Toxicity**

Not considered to be toxic to reproduction.

**STOT-single exposure**

Not expected to cause toxicity to a specific target organ.

**STOT-repeated exposure**

Not expected to cause toxicity to a specific target organ.

**Aspiration Hazard**

Not expected to be an aspiration hazard.

## 12. ECOLOGICAL INFORMATION

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**Ecotoxicity**

Toxic to aquatic life..

**Persistence and degradability**

Not available

**Mobility**

Not available

**Bioaccumulative Potential**

Not available

**Other Adverse Effects**

Not available

**Environmental Protection**

Prevent this material entering waterways, drains and sewers.

## 13. DISPOSAL CONSIDERATIONS

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**Disposal considerations**

The disposal of the spilled or waste material must be done in accordance with applicable local and national regulations.

## 14. TRANSPORT INFORMATION

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**Transport Information**

Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

**U.N. Number**

None Allocated

**UN proper shipping name**

None Allocated

**Transport hazard class(es)**

None Allocated

**Hazchem Code**

None Allocated

**Special Precautions for User**

Not available

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

None Allocated

**IATA/ICAO Proper Shipping Name**

Not dangerous for conveyance under IATA code

**IATA/ICAO Hazard Class**

None Allocated

**IMDG UN No**

None Allocated

**IMDG Proper Shipping Name**

Not dangerous for conveyance under IMO/IMDG code

**IMDG Hazard Class**

None Allocated

**IMDG Marine pollutant**

No

**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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