



SAFETY DATA SHEET

CULMINATE

Infosafe No.: X01CJ

Version No.: 1.0

ISSUED Date : 20/07/2021

ISSUED by: SST AUSTRALIA PTY LTD

Section 1 - Identification

Product Identifier

CULMINATE

Company Product Codes / Numbers / Unique Identifiers

140010559

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.

Section 2 - Hazard(s) Identification

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)

Skin corrosion/irritation: Category 2

Eye Damage/Irritation: Category 2

Acute toxicity: Category 4 - Inhalation

Hazardous to the Aquatic Environment - Acute Hazard: Category 2

Signal Word (s)

WARNING

Hazard Statement (s)

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 skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280(e) Wear eye protection/face protection.

P280(g) Wear protective gloves.

Precautionary Statement – Response

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

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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

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

P362+P364 Take off contaminated clothing and wash it before reuse.

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.

Precautionary Statement – Disposal

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

Section 3 - Composition and 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 |

Section 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

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)

Section 5 - Firefighting Measures**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.

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.

Section 6 - Accidental Release Measures

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.

Section 7 - Handling and Storage

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.

Section 8 - Exposure Controls and Personal Protection

Occupational exposure limit values

| Substance | Regulations | Exposure Duration | Exposure Limit | Units | Notes |
|---------------------------|---------------------|-------------------|----------------|-------|-----------|
| Ammonia, aqueous solution | Safe Work Australia | TWA | 25 | ppm | (Ammonia) |
| 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 Monitoring

No biological limits allocated.

Control Banding

Not available

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 and Face 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 (series) - 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.

Thermal Hazards

No further relevant information available.

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.

Section 9 - Physical and Chemical Properties

| Properties | Description | Properties | Description |
|--|---|---------------------------------|--|
| Form | Liquid | Appearance | Clear liquid |
| Colour | Not available | Odour | Slight ammoniacal |
| Melting Point | Not available | Boiling Point | Not available |
| Decomposition Temperature | Not available | Solubility in Water | Soluble |
| Specific Gravity | 1.3 (20 °C) (approximate) | pH | 8.5-9.5 |
| Vapour Pressure | Not available | Relative 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 (log value) | 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 |

Section 10 - Stability and Reactivity

Reactivity

Refer to Section 10: Possibility of hazardous reactions

Chemical Stability

Stable under normal conditions of storage and handling.

Possibility of hazardous reactions

Reacts with incompatible materials.

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

Thermal decomposition may result in the release of toxic and/or irritating fumes, smoke and gases including: oxides of sulphur, ammonia and ammonium sulphate.

Hazardous Polymerization

Not available

Section 11 - Toxicological Information

Toxicology Information

No toxicity data available for this material.

Ingestion

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

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.

Section 12 - Ecological Information

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.

Hazardous to the Ozone Layer

This product is not expected to deplete the ozone layer.

Section 13 - Disposal Considerations

Disposal Considerations

Dispose of waste according to applicable local and national regulations. Do not allow into drains or watercourses or dispose of

where ground or surface waters may be affected. Wastes including emptied containers are controlled wastes and should be disposed of in accordance with all applicable local and national regulations.

To minimise personal exposure, refer to Section 8 - Exposure Controls and Personal Protection.

Section 14 - Transport Information

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.

ADG U.N. Number

None Allocated

ADG Proper Shipping Name

None Allocated

ADG Transport Hazard Class

None Allocated

ADG Packing Group

None Allocated

Special Precautions for User

Not available

IATA UN Number

None Allocated

IATA Proper Shipping Name

Not dangerous for conveyance under IATA code

IATA Transport Hazard Class

None Allocated

IATA Packing Group

None Allocated

IMDG UN Number

None Allocated

IMDG Proper Shipping Name

Not dangerous for conveyance under IMO/IMDG code

IMDG Transport Hazard Class

None Allocated

IMDG Packing Group

None Allocated

IMDG Marine pollutant

No

Transport in Bulk

Not available

Section 15 - Regulatory Information

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

Australia (AICS/AIIC)

All components of this product are listed on the Inventory or exempted.

Montreal Protocol

Not Listed

Stockholm Convention

Not Listed

Rotterdam Convention

Not Listed

International Convention for the Prevention of Pollution from Ships (MARPOL)

Not available

Agricultural and Veterinary Chemicals Act 1994

Not applicable

Basel Convention

Not Listed

Section 16 - Any Other Relevant Information

Date of Preparation

SDS Reviewed: July 2021, Supersedes: July 2016

Literature 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.

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

Code of Practice for Supply Diversion into Illicit Drug Manufacture.

National Code of Practice for Chemicals of Security Concern.

Agricultural Compounds and Veterinary Chemicals Act.

International Agency for Research on Cancer (IARC) Monographs.

Montreal Protocol on Substances that Deplete the Ozone Layer.

Stockholm Convention on Persistent Organic Pollutants (POPs).

Rotterdam Convention on the Prior Informed Consent Procedure for Certain Hazardous Chemicals and Pesticides in International Trade.

Basel Convention on the Control of Transboundary Movements of Hazardous Wastes and Their Disposal.

International Air Transport Association (IATA) Dangerous Goods Regulations.

International Maritime Dangerous Goods (IMDG) Code.

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.

Code of Practice: Managing Noise and Preventing Hearing Loss at Work.

Contact Person/Point

IMPORTANT ADVICE: An SDS summarizes our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. The information contained in this SDS is believed to be correct but is not guaranteed. Prior to using the product(s) referred to in this SDS, each user should read this SDS and consider the information in the context of how the product will be handled and used in the workplace, including its use in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact the supplier listed in section 1 of the SDS. Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request. SST does not accept any other liability either directly or indirectly for any losses suffered in connection with the use and application of the product whether or not in accordance with any advice, specification, recommendation or information given by it.

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