

Safety Data Sheet

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

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| Product Name: | Polyglyceryl-4 Caprate Polyglycerol-4-caprate;POLYGLYCERYL-4 |
| Other name(s): | CAPRATE;POLYGLYCEROL-4 decanoate;Polyglycerol-4 decanoat |
| Recommended Use of the Chemical and Restrictions on Use | Antioxidant. |
| Supplier: | XI'AN AOGU BIOTECH CO.,LTD. |
| Street Address: | Room 606,Block B3,Jinye Times,No.32,East Section of Jinye Road,Yanta District,Xi'an Shaanxi 710065 China |
| Telephone Number: | +8618091843361 |
| Facsimile: | +86-29-89121514 |

Please ensure you refer to the limitations of this Safety Data Sheet as set out in the "Other Information" section at the end of this Data Sheet.

2. HAZARDS IDENTIFICATION

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail; NON-DANGEROUS GOODS.

This material is hazardous according to Safe Work Australia; HAZARDOUS CHEMICAL.

Classification of the chemical:

Acute Oral Toxicity - Category 4

Eye Irritation - Category 2A

SIGNAL WORD: WARNING



Hazard Statement(s):

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

Precautionary Statement(s):

Prevention:

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves / protective clothing / eye protection / face protection.

Response:

Specializing in Cosmetics Ingredients and Nutritional Supplement Ingredients

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

P330 Rinse mouth.

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.

Storage:

No storage statements.

Disposal:

P501 Dispose of contents and container in accordance with local, regional, national, international regulations.

Poisons Schedule (SUSMP): S6 Poison.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

| Components | CAS Number | Proportion | Hazard Codes |
|------------------------|-------------|------------|--------------|
| Polyglyceryl-4 Caprate | 160391-93-5 | >=99% | H302 H319 |

4. FIRST AID MEASURES

For advice, contact a Poisons Information Centre (e.g. phone Australia 131 126; New Zealand 0800 764 766) or a doctor.

Inhalation:

Remove victim from area of exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.

Skin Contact:

If skin or hair contact occurs, remove contaminated clothing and wash skin and hair with soap and water. If irritation occurs seek medical advice.

Eye Contact:

If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre or a doctor, or for at least 15 minutes.

Ingestion:

Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water. Seek medical assistance.

Indication of immediate medical attention and special treatment needed:

Treat symptomatically.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media:

Fine water spray, alcohol resistant foam, dry agent (carbon dioxide, dry chemical powder).

Specific hazards arising from the chemical:

Combustible liquid. On burning will emit toxic fumes, including those of oxides of carbon.

Special protective equipment and precautions for fire-fighters:

Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion. Keep containers cool with water spray.

6. ACCIDENTAL RELEASE MEASURES

Emergency procedures/Environmental precautions:

Shut off all possible sources of ignition. Clear area of all unprotected personnel. If contamination of sewers or waterways has occurred advise local emergency services.

Personal precautions/Protective equipment/Methods and materials for containment and cleaning up:

Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contact and breathing in vapours. Work up wind or increase ventilation. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal.

7. HANDLING AND STORAGE

Classified as a C1 (COMBUSTIBLE LIQUID) for the purpose of storage and handling, in accordance with the requirements of AS 1940. Refer to State Regulations for storage and transport requirements.

This material is a Scheduled Poison S6 and must be stored, maintained and used in accordance with the relevant regulations.

Precautions for safe handling:

Avoid skin and eye contact and breathing in vapour, mists and aerosols. Keep out of reach of children.

Conditions for safe storage, including any incompatibilities:

Store in a cool, dry, well ventilated place and out of direct sunlight. Store away from sources of heat or ignition. Store away from foodstuffs. Store below 35°C. Store away from incompatible materials described in Section 10. Keep containers closed when not in use - check regularly for leaks.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters: No value assigned for this specific material by Safe Work Australia.

Appropriate engineering controls:

Use in well ventilated areas. If inhalation risk exists: Use with local exhaust ventilation or while wearing organic vapour respirator. Keep containers closed when not in use.

Individual protection measures, such as Personal Protective Equipment (PPE):

The selection of PPE is dependent on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods, and environmental factors.

OVERALLS, SAFETY SHOES, CHEMICAL GOGGLES, GLOVES.



Wear overalls, chemical goggles and impervious gloves. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use.

If determined by a risk assessment an inhalation risk exists, wear an organic vapour respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

9. PHYSICAL AND CHEMICAL PROPERTIES

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| Physical state: | Clear Liquid |
| Colour: | Colourless to Pale Yellow |
| Odour: | Weak, Mild, Rosy, Balsamic, Cinnamon - like |
| Odour Threshold: | Not available |
| Solubility: | Insoluble in water. Soluble in isopropyl palmitate, aqueous alkali, glycerin, propylene glycol and alcohol. |
| Specific Gravity: | 1.10 - 1.12 @ 20°C |
| Relative Vapour Density (air=1): | Not available |
| Vapour Pressure (20 °C): | 0.01 mmHg |
| Flash Point (°C): | >93.3 (CC) |
| Flammability Limits (%): | 1.4 - 9 |
| Autoignition Temperature (°C): | >200 |
| Melting Point/Range (°C): | 8 - 14 |
| Boiling Point/Range (°C): | 244 - 245 |
| Decomposition Point (°C): | Not available |
| pH: | 5.5 - 7.0 (1% aqueous solution) |
| Viscosity: | 20 - 40 cps @ 20°C (dynamic) |
| Partition Coefficient: | Log Pow: 1.13 - 1.2 at 23°C |

10. STABILITY AND REACTIVITY

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| Reactivity: | No hazardous reactions if stored and handled as prescribed/indicated. |
| Chemical stability: | Stable under normal conditions. |
| Possibility of hazardous | Hazardous polymerisation will not occur. |

reactions:

- Conditions to avoid:** Avoid exposure to heat, sources of ignition, and open flame.
- Incompatible materials:** Incompatible with strong acids, strong bases and strong oxidising agents.
- Hazardous decomposition products:** Oxides of carbon.

11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

- Ingestion:** Swallowing can result in nausea, vomiting, diarrhoea, and abdominal pain.
- Eye contact:** An eye irritant.
- Skin contact:** Contact with skin may result in irritation.
- Inhalation:** Material may be irritant to the mucous membranes of the respiratory tract (airways). Inhalation of vapours may lead to headache, nausea, dizziness and vomiting.

Acute toxicity:

- Oral LD50 (rat): 1,260 mg/kg (1)
- Oral LD50 (mice): 933 mg/kg (1)
- Dermal LD50 (rat): 14,422 mg/kg (1)
- Dermal LD50 (rabbit): 5 mL/kg (1)

- Skin corrosion/irritation:** Mild irritant (rabbit). (1)
- Serious eye damage/irritation:** Severe irritant (rabbit). (1)
- Respiratory or skin sensitisation:** No information available.

Chronic effects: No information available for the product.

- Mutagenicity:** No information available.
- Carcinogenicity:** No information available.
- Reproductive toxicity:** No information available.
- Specific Target Organ Toxicity (STOT) - single exposure:** No information available.
- Specific Target Organ Toxicity (STOT) - repeated exposure:** No information available.
- Aspiration hazard:** No information available.

12. ECOLOGICAL INFORMATION

- Ecotoxicity** Avoid contaminating waterways.

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| Persistence/degradability: | The material is readily biodegradable. (2) |
| Bioaccumulative potential: | Not expected to bioconcentrate or bioaccumulate. (2) |
| Mobility in soil: | No information available. |
| Aquatic toxicity: | 72hr EC50 (Desmodosmus subspicatus): >100 mg/L (2) |
| 48hr LC50 (Daphnia magna): | 488 mg/L (2) |
| 96hr LC50 (fathead minnow): | 344 mg/L (2) |
| 96hr LC50 (golden orfe): | >100 mg/L (3) |

13. DISPOSAL CONSIDERATIONS

Disposal methods:

Refer to Waste Management Authority. Dispose of contents and container in accordance with local, regional, national, international regulations.

14. TRANSPORT INFORMATION

Road and Rail Transport

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail; NON-DANGEROUS GOODS.

Marine Transport

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; NON-DANGEROUS GOODS.

Air Transport

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

15. REGULATORY INFORMATION

Classification:

This material is hazardous according to Safe Work Australia; HAZARDOUS CHEMICAL.

Classification of the chemical:

Acute Oral Toxicity - Category 4

Eye Irritation - Category 2A

Hazard Statement(s):

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

Poisons Schedule (SUSMP): S6 Poison.

This material is listed on the Australian Inventory of Chemical Substances (AICS).

16. OTHER INFORMATION

(1) 'Registry of Toxic Effects of Chemical Substances'. Ed. D. Sweet, US Dept. of Health & Human Services: Cincinnati, 2012.

(2) Supplier Safety Data Sheet; 06/ 2011.

(3) Supplier Safety Data Sheet; 01/ 2015.

This safety data sheet has been prepared by Ixom Operations Pty Ltd Toxicology & SDS Services.