SAFETY DATA SHEET

SYLOID 72X1896

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Issued by: Axieo Masterbatch Australia a Division of Axieo Operations (Australia) Pty Limited

1. IDENTIFICATION

GHS Product Identifier
SYLOID 72X1896

Product Code
ASYLO10019

Company Name
Axieo Masterbatch Australia a Division of Axieo Operations (Australia) Pty Limited

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AUSTRALIA

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E-mail Address
compliance@axieo.com

Recommended use of the chemical and restrictions on use
Industrial application/Intermediate

2. HAZARD IDENTIFICATION

GHS classification of the substance/mixture
Not 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)

Other Information
The product is very adsorbent and may have a drying effect on skin and eyes.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Name	CAS	Proportion
Fumed silica	7631-86-9	95-100 %

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 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. If symptoms develop and/or persist seek medical attention.

First Aid Facilities
Eyewash 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

Suitable Extinguishing Media
Use appropriate fire extinguisher for surrounding environment.

Hazards from Combustion Products
Non combustible material.

Specific Hazards Arising From The Chemical
This product is non combustible.

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.

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures
Increase ventilation. Evacuate all unprotected personnel. Wear sufficient respiratory protection and full protective clothing to prevent exposure. Sweep up material avoiding dust generation or dampen spilled material with water to avoid airborne dust, then transfer material to a suitable container. Wash surfaces well with soap and water. Seal all wastes in 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.

7. HANDLING AND STORAGE

Precautions for Safe Handling
Avoid inhalation of dust, and skin or eye contact. Use only in a well ventilated area. Keep containers sealed when not in use. Prevent the build up of dust 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 and moisture. 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.
Material is hygroscopic.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limit values

Substance	Regulations	Exposure Duration	Exposure Limit	Units	Notes
Fumed silica	Safe Work Australia	TWA	2	mg/m3	(Respirable fraction)

Biological Limit Values
No biological limits allocated.

Appropriate Engineering Controls
Use with good general ventilation. If dusts are produced, local exhaust ventilation should be used.

Respiratory Protection
If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable dust/ particulate 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 butyl rubber, nitrile rubber.
Unsuitable Materials: Fabric

Glove thickness: >=0.11 mm

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.

Other Information
No exposure standards have been established for this material, however, the TWA exposure standards for dust not otherwise specified is 10 mg/m³. As with all chemicals, exposure should be kept to the lowest possible levels.
TWA (Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week.
Source: Safe Work Australia

9. PHYSICAL AND CHEMICAL PROPERTIES

Form
Powder

Appearance
White powder

Colour
White

Odour
Characteristic

Decomposition Temperature
Not available

Melting Point
>1700°C

Boiling Point
>1700°C

Solubility in Water
Insoluble

pH
4-9 (20°C)

Vapour Pressure
Not available

Vapour Density (Air=1)
Not applicable

Evaporation Rate
Not applicable

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

Density
2.17-2.20g/cm³ (20°C)
70-600kg/m³ (20°C) (bulk density)

Flash Point
Not available

Flammability
Non combustible material.

Auto-Ignition Temperature
Product is not classified self-igniting

Explosion Limit - Upper
Not available

Explosion Limit - Lower
Not available

Explosion Properties
No danger of explosion

Oxidising Properties
Not available

Kinematic Viscosity
Not available

Dynamic Viscosity
Not available

10. STABILITY AND REACTIVITY

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
Not available

Hazardous Decomposition Products
Thermal decomposition may result in the release of toxic and/or irritating fumes

Possibility of hazardous reactions
Not available

Hazardous Polymerization
Not available

11. TOXICOLOGICAL INFORMATION

Toxicology Information
Toxicity data for material given below.

Acute Toxicity - Oral
LD50 (rat): >5000mg/kg
OECD 401

Acute Toxicity - Inhalation
LC0 (rat): >140->2000mg/m³/4h
OECD 403
Maximum attainable concentration, mortality does not appear

Acute Toxicity - Dermal
LD50 (rabbit): >6000mg/kg

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

Inhalation
Inhalation of dusts may irritate the respiratory system. Chronic exposure to this material may aggravate existing respiratory disorders and lung disorders such as bronchitis, emphysema and asthma. Onset and progression are related to dust concentrations and duration of exposure.

Skin
Skin contact may cause mechanical irritation resulting in redness and itching.

Species: rabbit
Result: non-irritant
OECD 404

Eye
Eye contact may cause mechanical irritation. May result in mild abrasion.

Species:rabbit
Result: non-irritant
OECD405

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.

Ames test: >5 mg/plate
In vitro test system
Result: negative, with or without metabolic activation
OECD 471

Carcinogenicity
Not considered to be a carcinogenic hazard.

Fumed silica is listed as a Group 3: Not classifiable as to carcinogenicity to humans according to International Agency for Research on Cancer (IARC).

Reproductive Toxicity
Not considered to be toxic to reproduction.

NOAEL: rat (maternal toxicity): 1350 mg/kg bw/day
NOAEL: rat (teratogenicity): 1350 mg/kg bw/day
OECD414

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.

NOAEL: rat (oral): 9000 mg/kg bw/day (90d)
OECD 408
NOAEL: rat (inhalation): 1 mg/m³ (90d)
OECD 413

Aspiration Hazard
Not expected to be an aspiration hazard.

12. ECOLOGICAL INFORMATION

Ecotoxicity
The available ecological data is given below.

Persistence and degradability
Not available

Mobility
Not available

Bioaccumulative Potential
Does not significantly accumulate in organisms.

Other Adverse Effects
Not available

Environmental Protection
Prevent this material entering waterways, drains and sewers.

Acute Toxicity - Fish
LC0 (Zebra fish): 10,000 mg/l (96h) (static)
OECD203

Acute Toxicity - Daphnia
EC50 (Daphnia magna): >1,000 mg/l (24h)
OECD202

Acute Toxicity - Algae
EC50 (Scenedesmus subspicatus): >10,000 mg/l (72h)
OECD201

Studies of a comparable product.

Other Information
Chemically and biologically inert. By the insolubility in water there is a separation at every filtration and sedimentation process.

13. DISPOSAL CONSIDERATIONS

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

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.

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

Regulatory information
Not 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 a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

Poisons Schedule
Not Scheduled

16. OTHER INFORMATION

Date of preparation or last revision of SDS
SDS Reviewed: December 2016, Supersedes: May 2015

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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END OF SDS