

# Safety Data Sheet

## 411 Microsphere West System

Version 1



ATL composites

### Section 1: Identification of the substance / mixture and of the supplier

Trade Name	411 Microsphere West System
Product Code	411
Recommended Use	Used in conjunction with epoxy systems for adhesive and composites applications
Company	ATL Composites
Address	12-14 Production Ave Ernest 4214
Telephone	+61 7 5563 1222 (Monday-Friday 8:30am-5:00pm)
Emergency Telephone Number	+61 7 5563 1222 (Monday-Friday 8:30am-5:00pm)
Revision Date	2 <sup>nd</sup> March 2022

### Section 2: Hazards Identification

GHS Classification: Not Classified

#### GHS Label elements, including precautionary statements

Pictogram None assigned

Signal word N/A

Hazard statement(s)

None assigned

Precautionary statement(s)

None assigned

### Section 3: Composition / Information on Ingredients

Component	Classification	Concentration
Amorphous Sodium Borosilicate	50815-87-7	>80
Synthetic amorphous pyrogenic silica	112945-52-5	<20

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### Section 4: First Aid Measures

Inhalation	If cough, shortness of breath or other breathing problems occur, move to fresh air. Seek medical attention if symptoms persist. If necessary, restore normal breathing through standard first aid measures.
Ingestion	Do not induce vomiting. If conscious, give several glasses of water. Never give anything by mouth to an unconscious person.
Skin	Wash thoroughly with soap and water. Seek medical attention if symptoms develop.
Eye	Flush eyes immediately with large amounts of water for 15 minutes. Seek medical attention if symptoms develop.
First Aid Facilities	Eye wash and normal wash room facilities.
Advice to Doctor	Treat symptomatically
Other Information	For advice, contact a Poisons Information Center (Phone e.g Australia 131 126)

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### Section 5: Fire Fighting Measures

Suitable extinguishing media	Blend is non-combustible, therefore no extinguishing media needs to be identified.
Hazards from combustion products	None
Special fire fighting procedures	Wear a self-contained breathing apparatus and complete full-body personal protective equipment. Dust may form an explosive mixture in the air, possibly resulting in a secondary explosion.

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### Section 6: Accidental Release Measures

Environmental precautions	Contain spilled products to the extent practical and feasible.
Personal precautions and protective equipment	Keep unnecessary and unprotected personnel from entering area, Use appropriate safety and personal protective equipment as indicated in Section 8.
Mitigation and clean up procedures	Eliminate all ignition sources (no smoking, flares, sparks, flames etc) Take precautionary measures to prevent static discharge. Use methods that avoid generating airborne dust. Use a vacuum with high efficiency particulate air (HEPA) filtration is recommended. Do not create a dust cloud by brushing or sweeping, or using compressed air.

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### Section 7: Handling and Storage

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### Storage

**Precautions for Safe Handling** Avoid dust formation. Avoid breathing dust. Wash hands and face after handling. Provide appropriate exhaust ventilation at points of operation where dust can be generated. Use only equipment that is rated for safe handling of combustible solids. Avoid using compressed air. Dust may form explosive mixture with air. Take precautionary measures against static discharges. Metal parts of mixing and processing equipment should be earthed/grounded. Dust deposits should not be allowed to accumulate on surfaces.

**Conditions for Safe Storage** Store in cool, dry place. Keep container tightly closed in a dry area and do not allow contact with water. Do not store directly in the sun or in conditions exceeding 95°F (35°C). Keep away from sources of ignition or heat. Avoid storing near water sources and other incompatible materials identified in Section 10.

**Storage Temperature (Min / Max)** 0°F (-17°C) / 95°F (35°C)

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### Section 8: Exposure Controls / Personal Protection

Ingredient Name	CAS #	Exposure Limit Information
Cellulose pulp	65996-61-4	Dust and PNOS: ACGIH 10mg/m <sup>3</sup> , TWA, Inhalable; 3 mg/m <sup>3</sup> , TWA, Respirable; OSHA PEL 15 mg/m <sup>3</sup> , TWA, total dust; 5 mg/m <sup>3</sup> , TWA, Respirable
Synthetic amorphous pyrogenic silica	112945-52-5	Amorphous silica: OSHA PEL 6 mg/m <sup>3</sup> Dust and PNOS: ACGIH 10mg/m <sup>3</sup> , TWA, Inhalable; 3 mg/m <sup>3</sup> , TWA, Respirable; OSHA PEL 15 mg/m <sup>3</sup> , TWA, total dust; 5 mg/m <sup>3</sup> , TWA, Respirable

**OCCUPATIONAL EXPOSURE LIMITS:** Exposure limits may not be established for this product as a whole. For established exposure limits of specific ingredients in this product, or other available exposure limit information, refer to the table above.

**Engineering Controls** Provide sufficient ventilation to keep airborne levels below the exposure limit. Where vapours or mist are generated, particularly in enclosed areas, and natural ventilation is inadequate, a local exhaust ventilation system is required.  
Provide readily accessible eye wash stations and safety showers.

**Respiratory Protection** Where ventilation is inadequate the use of an Air Purifying Respirator with a replaceable organic vapour filter complying with AS/NZS 1715 and AS/NZS 1716 is recommended.

**Eye Protection** Safety glasses with side shields, goggles or full-face shield as appropriate recommended. Final choice of appropriate eye/face protection will vary according to individual circumstances i.e. methods of handling or engineering controls and according to risk assessments undertaken. Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 – Eye protectors for Industrial Applications.

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Hand Protection	Wear gloves of impervious material such as impervious PVC or rubber gloves. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Reference should be made to AS/NZS 2161.1 Occupational protection gloves – Selection use and maintenance.
Body Protection	Suitable work wear should be worn to protect personal clothing. Industrial clothing should conform to the specifications detailed in AS/NZS 2919: Industrial Clothing.

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### Section 9: Physical and Chemical Properties

Form	Powder
Colour	White
Odour	No distinguishable odor
pH	No data available
Melting Point	No data available
Flash Point	No data available
Boiling Point	No data available
Vapour Density	No data available
Vapour Pressure	No data available
Density	No data available
% Volatile by weight	No data available
Explosive Properties	No data available
Kst VALUE:	No data available
MAXIMUM EXPLOSION PRESSURE (Pmax)	No data available
MINIMUM IGNITION ENERGY (MIE)	No data available
MAXIMUM EXPLOSION CONCENTRATION (MEC)	No data available
DUST EXPLOSION CLASSIFICATION	No data available

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### Section 10: Stability and Reactivity

Chemical Stability	Not reactive. Substance is an inert inorganic solid. Stable under recommended handling and storage conditions.
Conditions to Avoid	None known

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Incompatible Materials None known

Hazardous Decomposition Products None known

Hazardous Reactions None known

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### Section 11: Toxicological Information

Acute oral toxicity Not classified. Does not meet acute oral toxicity criteria.

Acute dermal Toxicity Not classified. Does not meet acute dermal toxicity criteria.

Inhalation Not classified. Does not meet acute inhalation toxicity criteria.

Skin Not classified. Does not meet criteria for skin corrosion/irritation.

Eyes Not classified. Does not meet criteria for skin eye damage/irritation. High dust concentrations may cause mechanical irritation.

Specific Target Organ Systemic Toxicity (Single Exposure) Not classified. Does not meet STOT SE criteria.

Specific Target Organ Systemic Toxicity (Repeated Exposure) Not classified. Does not meet STOT RE criteria.

Carcinogenicity Not classified. Does not meet criteria for carcinogenicity. No evidence of carcinogenicity was observed in multiple animal species following repeated oral or inhalation exposure to synthetic amorphous silica. Similarly, epidemiology studies show no evidence of carcinogenicity in workers who manufacture synthetic amorphous silica.

Reproductive Toxicity Not classified. Does not meet criteria for reproductive toxicity.

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### Section 12: Ecological Information

Ecotoxicity No specific test data available for this product. Calculated Estimate: Does not meet acute aquatic toxicity criteria.

Persistence / Degradability No specific test data available for this product. Calculated Estimate: Does not meet acute aquatic toxicity criteria.

Movement and Partitioning No specific test data available for this product. Calculated Estimate: Does not meet acute aquatic toxicity criteria.

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Environmental Protection Do not allow product to enter drains, waterways or sewers.

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### Section 13: Disposal Considerations

Disposal Considerations DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER.  
Dispose of waste according to federal, EPA and state regulations.

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### Section 14: Transport Information

ADG Not regulated.  
IATA Not regulated.  
IMDG Not regulated.

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### Section 15: Regulatory Information

COUNTRY	INVENTORY LIST	STATUS
United States	TSCA	All ingredients are listed or otherwise compliant.
Europe	EINECS or ELINCS	All ingredients are listed or otherwise compliant.
Canada	CEPA (DSL/NDL)	All ingredients are listed or otherwise compliant.
Australia	AICS	All ingredients are listed or otherwise compliant.
Japan	ENCS	No data.
South Korea	KECI	No data.
China	IECSC	No data.
Philippines	PICCS	No data.
New Zealand	NZIoC	No data.

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### Section 16: Other Information

#### Contact Person/Point

PRODUCT INFORMATION MANAGER: (+61) 7 5563 1222  
12-14 Production Av Ernest Queensland, Australia

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.