MATERIAL SAFETY DATA SHEET
Silica Fume or Carbosil

HAZARDOUS ACCORDING TO THE CRITERIA OF SAFE WORK AUSTRALIA (NOHSC)

1. IDENTIFICATION OF MATERIAL AND SUPPLIER

Identification of Material

Product name: Silica Fume or Carbrosil
Product code:
Intended use: Filer Material – Resin Viscosifer – No Sagging Paste/Putty Maker
Chemical Name: Inorganic Compound – SILICA FUME

Identification of the Company

Manufacturer / Supplier: SHIMICOAT Pty Ltd, 9a Morse Road, BIBRA LAKE WA 6163
Phone: (+61) (08) 9434 3302
E-mail: info@shimi.com.au
Website: www.shimi.com.au
Emergency phone number: Poisons Information Centre
Phone (Australia 13 1126; New Zealand 03 4747000)

Additional Information:
It is the user's responsibility to determine the suitability of this product for their applications and their methods of use.

Other Information:
THIS MSDS SUMMARISES 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. EACH USER MUST REVIEW THIS SDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE. IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT SHIMICOAT SO WE CAN ATTEMPT TO PROVIDE ADDITIONAL INFORMATION. OUR RESPONSIBILITY FOR PRODUCTS SOLD IS SUBJECT TO OUR STANDARD TERMS AND CONDITIONS, A COPY OF WHICH IS AVAILABLE ON OUR WEBSITE, SENT TO OUR CUSTOMERS AND IS ALSO AVAILABLE ON REQUEST BY EMAIL OR POST.

2. HAZARD IDENTIFICATION

NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOOD.
Classification of the substance or mixture
GHS Classification in accordance with CFR 1910 (OSHA HCS)
NOT hazardous according to the criteria of the Globally Harmonised System of Classification and Labelling of
Chemicals (GHS)
Label elements
Labeling according to Regulation (EC) No 1272/2008:
Relevant phrases:
Signal Word: NONE
Hazard pictograms:
Hazard Statements:
H373 May cause damage to organs through prolonged or repeated exposure.
Precautionary Statements:
Precautionary Statements:
P260 Do not breathe dust/fume.
Prevention
P314 Get medical advice/attention if you feel unwell.

Storage

Not Applicable

Disposal

P501 Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

Hazards not otherwise classified (HNOC)

No information available

Unknown acute toxicity

No information available

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Name	CAS Number	Concentration
Silica Fume	112926-00-8	>90 %
Ingredients determined to be non-hazardous	N/A	Balance

Additional information: *Balance of other ingredients are non-hazardous or less than 1% in concentration (or 0.1% for carcinogens, reproductive toxins, or respiratory sensitizers). Additional H statements see Sec 16.*

4. FIRST AID MEASURES

Description of first aid measures

Swallowed: Drink plenty of water and contact a Doctor if irritation develops. **DO NOT induce vomiting.**

Eye: If in eyes, flush with plenty of water for at least 15 minutes, Remove contact lenses, Do not rub, ensuring eyelids are held open and see a Doctor if irritation continues.

Skin: If skin contact occurs, remove contaminated clothing and wash skin thoroughly with soap and water.

Inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Remove contaminated clothing and loosen remaining clothing. If respiratory symptoms persist, get medical advice/attention. Give artificial respiration if victim is not breathing. Administer oxygen if breathing is difficult.

First Aid Facilities: Eye wash fountain shall be available.

Advice to Doctor: Treat symptomatically. Existing medical conditions (e.g. asthma, bronchitis) may be aggravated by exposure to dust.

5. FIREFIGHTING MEASURES

Fire/Explosion Hazard: Non- flammable does not support combustion of other materials and will not cause dust explosions.

Extinguishing media: If material is involved in a fire, use dry chemical, Carbon dioxide (CO2), foam or water spray for extinction. Use an extinguishing agent suitable for the surrounding fire.

Special firefighting instructions: Contain runoff from fire control or dilution water - Runoff may pollute waterways.

Flammability: Non-Flammable.

6. ACCIDENTAL RELEASE MEASURES

Emergency Action: Ensure adequate ventilation. Do not touch or walk through spilled material - Slippery when spilt. Avoid accidents, clean up immediately! Avoid dust formation. Avoid breathing dust and contact with eyes, skin and clothing. Spill or leak area should be isolated immediately. Keep unauthorised personnel away. Vacuum or sweep up material and place in a designated, labelled waste container (see SECTION 13).

Spill or Leak Procedure: Stop leak if you can do it without risk.

Spills: Prevent spills entering sewers, storm water drains or waterways. Avoid creating dust, wet material or use vacuum to remove spill.

7. HANDLING AND STORAGE

Storage: Store in a cool, dry and well-ventilated place, out of direct sunlight. Keep containers closed when not in use (material may absorb moisture); check regularly for spills. Keep away from incompatible materials (see SECTION 10).

Transport: Not classified as a Dangerous good, according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (6th Edition).

Proper Shipping Name: None allocated

Container Keep in the original container. Do not store in unlabelled containers.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

General Safe Work Australia exposure standard: TWA = 10 mg/m3; This value is for inhalable dust containing no asbestos and < 1% crystalline silica (a).

Exposure Limits No Data Available

Engineering Controls A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.

PERSONAL PROTECTION

Body Protection: Suitable PVC or rubber apron, coveralls, safety shoes/boots. Dusty clothing should be laundered before reuse. Avoid creating dust when removing or laundering clothes.

Hand Protection: Wear gloves of impervious material conforming to AS/NZS 2161: Occupational protective gloves – Selection, use and Maintenance. Final choice of appropriate glove type will vary according to individual circumstances. This can include method of handling, engineering controls as determined by appropriate risk assessments. Advice should be sought from appropriate glove manufacturers to ensure gloves are correct for application.

Eye Protection: Safety glasses with side shields or goggles should be worn as described in AS/NZS 1337 – Eye Protectors for Industrial Applications. Final choice of appropriate eye/face protection will vary according to individual circumstances.

Respiratory Protection: Where dust is generated, and exposure levels do not exceed ten times the Workplace Exposure standards, a half face piece respirator fitted with a P1 filter complying to AS/NZS 1715 and As/NZS 1716 is recommended. Where exposure levels do exceed ten times the Workplace exposure standards, then a full face-piece respirator fitted with P2/P3 filter, or a powered air-supplied respirator fitted with P2 filter, should be used. 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 necessary changes for individual circumstances Filter capacity and respiratory type depends on the type of particulate i.e. dust or fume and exposure levels. Final choice of appropriate respiratory protection will vary according to individual circumstances. This can include handling and engineering controls as determined by appropriate risk assessments.

Hygiene Measures Do not store or consume food, drink or tobacco in an area where they may become contaminated with this material. Wash hands thoroughly before eating, drinking, smoking, applying cosmetics or using the toilet.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White powder or granulate
Boiling Point	Not relevant
Melting point	>1,000 °C
Vapor Pressure	Not relevant
Flash Point	Not relevant
Flammability Limits	Not relevant
Solubility in Water:	Insoluble

Physical state	Solid
Odor	Odourless
Density	2.1 gr/cm^3

10. STABILITY AND REACTIVITY

Stability	The product is stable. Stable under normal conditions of use.
Hazardous Polymerization	Will not occur.
Hazardous decomposition products	None
Conditions to avoid	Avoid dust formation. Avoid exposure to high temperatures (>800 °C). Take precautionary measures against static Discharge
Incompatible materials	Keep away from the following materials: *Oxidizing Agents, Strong Alkalis, Strong Acids. Compatible with most resin materials.*
Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur.
Reactivity	No specific test data related to reactivity available for this product or its ingredients.

11. TOXICOLOGICAL INFORMATION

General Information

Information on possible routes of exposure:
- Ingestion: No known significant effects or critical hazards. Synthetic amorphous silica is a permitted food additive in the UK, US and many other countries.
- Eye contact: No significant irritation expected other than possible mechanical irritation. Dust may cause discomfort and mild irritation, redness.
- Skin contact: Prolonged or repeated contact may dry skin and cause irritation. Dust may have a drying effect on the skin.
- Inhalation: Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs; coughing and respiratory tract irritation.

Chronic effects: No known significant effects or critical hazards. Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation. Silica, amorphous is classified in Group 3 of the IARC Monographs: Not classifiable as to its carcinogenicity to humans.

Acute

Ingestion

Acute toxicity (Oral):
- LD50, Rat: >3,100 mg/kg bw.

Carcinogen Category None

12. ECOLOGICAL INFORMATION

Aquatic toxicity:

- Acute NOEC, Fish (Freshwater): >10,000 ppm (96 h) [static].
- Acute NOEC, Fish (Brachydanio rerio): >10,000 ppm (4 d) [static].

Acute NOEC, Crustacea (Daphnia magna): >1,000 ppm (24 h).

13. DISPOSAL CONSIDERATIONS

The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. May be disposed of by landfill in accordance with local regulations.

14. TRANSPORT INFORMATION

UN Number:	None allocated
Proper Shipping Name:	Synthetic Amorphous Silica – SHIMICOAT
Dangerous Goods Class:	None allocated
Packing Group:	None allocated
Hazchem Code:	None allocated
Poison Schedule:	None allocated

Additional information

DOT None identified
IMDG None identified
IATA None identified
Special precautions for user Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

15. REGULATORY INFORMATION

Poison Schedule: Not scheduled

16. FURTHER INFORMATION

To the best of our knowledge, this MSDS summarizes the health and safety hazards, which may be posed by the product. However, SHIMICOAT makes no representation with regard to the completeness or accuracy of the information or of any recommendations contained in this data sheet, and it accepts no responsibility for loss or damages whatsoever resulting from the use of, or reliance upon, the information and any recommendations herein.

REFERENCES

Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals, February 2016

- Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)] and subsequent amendments
- Australian Code for the Transportation of Dangerous Goods by Road and Rail (ADG Code), Edition 7.3, August 2014
- Standard for the Uniform Scheduling of Drugs and Poisons No. 23, June 2008

Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation.
IATA: International Air Transport Association.
ACGIH: American Conference of Governmental Industrial Hygienists.
EINECS: European Inventory of Existing Commercial Chemical Substances.
ELINCS: European List of Notified Chemical Substances.
CAS: Chemical Abstracts Service (division of the American Chemical Society).
NFPA: National Fire Protection Association (USA).
HMIS: Hazardous Materials Identification System (USA).
LC50: Lethal concentration, 50 percent.
LD50: Lethal dose, 50 percent

DISCLAIMER

Material Safety Data Sheet, Technical and Environmental Data Sheet can be provided upon request.
The information provided in this document is guidance only and considering the uses of this product are beyond the seller's control, the product is sold without guarantees or warranties. Warranties and guarantees shall be governed by SHIMICOAT Standard Terms of Sale. The purchaser shall make its own tests to determine the suitability for their specific application, and Shimicoat Pty Ltd is taking no responsibility for misuse of the product. The purchaser assumes all risk of use and handling of this product. This product will be happily replaced or credited back if defective. Beyond this, Shimicoat Pty Ltd is not liable for any damages caused by this product or its use. *This information and all further technical advice are based on our present knowledge and experience. The customer is not released from the obligation to conduct careful inspection and testing of supplied goods.*