

**1. Chemical product and company identification**

Product Name : GC SF-90D

Use of the substance/mixture : Densified silica fume (Microsilica)

Supplier/Manufacturer : GrecoChem Pte Ltd (20101181-K)
20 Collyer Quay. #14-02A Singapore 049319 :


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2. Hazards Identification

GHS Classification : Specific target organ toxicity - repeated exposure (Inhalation), category 2

GHS Label Elements Symbol : 

Signal Words : Warning

GHS Hazard Statement : H373: May cause damage to organs through prolonged or repeated exposure

Precautionary Statement : P260: Do not breathe dust/ fume/ gas/ mist/ vapours/ spray
P280: Wear protective gloves/protective clothing/eye protec

Prevention

Response

Disposal

Other hazards which do not result in classification

3. Composition / Information on Ingredients /

Synonyms : Silica fumes, Microsilica, Silica powder, Amorphous silica, Silicon dioxide powder, condensed SiO₂-fume, Silica fume.

CAS No. : 69012-64-2

EINCES No. : 273-761-1

HAZARDOUS INGREDIENT(S) : None

Silica Fume may contain small amounts of crystalline quartz (<0.5%)

**4. First aid measures**

General advice	: Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance.
If inhaled	: Move to fresh air.
In case of skin contact	: Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water.
In case of eye contact	: Remove contact lenses. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
If swallowed	: Clean mouth with water and drink afterwards plenty of water. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person.
Most important symptoms and effects, both acute and delayed	: No known significant effects or hazards. See Section 11 for more detailed information on health effects and symptoms. May cause damage to organs through prolonged or repeated exposure if inhaled.
Notes to physician	: Treat symptomatically.

5. Firefighting measures

Suitable extinguishing media	: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Hazardous combustion products	: No hazardous combustion products are known
Specific extinguishing methods	: Standard procedure for chemical fires.
Special protective equipment for firefighters	: In the event of fire, wear self-contained breathing apparatus.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	: Use personal protective equipment. Avoid breathing dust. Deny access to unprotected persons.
Environmental precautions	: Try to prevent the material from entering drains or water courses.
Methods and materials for containment and cleaning up	: Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

7. Handling and storage

Advice on protection against fire and explosion	: Avoid dust formation. Provide appropriate exhaust ventilation at places where dust is formed.
Advice on safe handling	: Avoid exceeding the given occupational exposure limits (see section 8). For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Follow standard hygiene measures when handling chemical Products
Hygiene measures	: Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.
Conditions for safe storage	: Keep container tightly closed in a dry and well-ventilated place. Store in accordance with local regulations.

**8. Exposure controls / Personal protection**

Avoid inhalation of dust. Ensure good dust ventilation during use. Wear a particulate respirator according to EN 149 FFP 2S/3S during dust generating operations. Use protective gloves and eyes protection. Facilities for eye flushing should be available.

Occupational Exposure Limits (HSE, EH40/97):

	8hr TWA		10 minute STEL	
	ppm	mg/m ³	ppm	mg/m ³
Silica, amorphous (SiO ₂)				
Total inhalable dust	-	6	-	-
Respirable dust	-	2.4	-	-
Silica, crystalline (SiO ₂)				
Respirable dust	-	0.3 ¹⁾	-	-

¹⁾ The indicated value is a Maximum Exposure Level, MEL.

Personal protective equipment

Respiratory protection	: Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded; self-contained breathing apparatus must be used.
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Eye protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary.
Skin and body protection	: Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

9. Physical and chemical properties

Form	: powder
Colour	: Grey
Odour	: Odourless
Melting Point (°C)	: 1580°C
Flash Point	: Not applicable
Solubility (Water)	: Insoluble
Specific Gravity/Density	: 2100-2300 kg/m ³
Bulk density (kg/m ³) approx.	: 150-700 kg/m ³
Auto-ignition temperature	: Not applicable
Explosion limits: Lower/Upper	: Not available
Decomposition temperature	: Not available
pH Value	: Not applicable
Molecular formula	: SiO ₂

10. Stability and reactivity

Reactivity	: No dangerous reaction known under conditions of normal use.
Chemical stability	: The product is chemically stable.
Possibility of hazardous reactions	: Stable under recommended storage conditions.
Conditions to avoid	: No data available
Incompatible materials	: No data available
Hazardous decomposition products	: No decomposition if stored and applied as directed.

11. Toxicological information

Acute toxicity	No data available
Skin corrosion/irritation	Not classified based on available information.
Serious eye damage/eye irritation	Not classified based on available information.
Respiratory or skin sensitisation	Skin sensitisation: Not classified based on available information. Respiratory sensitisation: Not classified based on available information.
Chronic toxicity	
Germ cell mutagenicity	Not classified based on available information.
Carcinogenicity	Not classified based on available information.
Reproductive toxicity	Not classified based on available information.
STOT - single exposure	Not classified based on available information.
STOT - repeated exposure	May cause damage to organs (Lungs) through prolonged or repeated exposure if inhaled.
Aspiration toxicity	Not classified based on available information.

12. Ecological information

Ecotoxicity	No data available
Persistence and degradability	No data available
Bio accumulative potential	No data available
Mobility in soil	No data available
Other adverse effects Product:	
Additional ecological information	

13. Disposal considerations
Disposal methods

Waste from residues	: Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.
Contaminated packaging	: Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.

14. Transport and regulatory information
International Regulation

IATA-DGR	: Not classified as a dangerous good under transport regulations
IMDG-Code	: Not classified as a dangerous good under transport regulations
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	: Not classified as a dangerous good under transport regulations

National Regulations

ADG	: Not classified as a dangerous good under transport regulations
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15. Regulation information

Safety, health and environmental regulations/legislation specific for the substance or mixture

Standard for the Uniform Scheduling of Medicines and Poisons

No poison schedule number allocated

International Chemical Weapons Convention (CWC) Schedules of Toxic Chemicals and Precursors

Not applicable

Prohibition/Licensing Requirements

Quartz (SiO₂) <5µm. Refer to model WHS Act and Regulations for prohibition, authorisation and restricted use.

The components of this product are reported in the following inventories:

AICS: On the inventory, or in compliance with the inventory

16. Other information
Additional information / Maklumat tambahan:

This information contains important information to ensure the safe storage, handling and use of this product. The information in this document should be brought to the attention of the person in your organisation responsible for advising on safety matters.

Maklumat ini mengandungi maklumat penting untuk memastikan penyimpanan, pengendalian dan penggunaan produk ini selamat. Maklumat dalam dokumen ini perlu harus dibawa kepada perhatian orang di dalam organisasi anda yang bertanggungjawab untuk menasihati pada perkara-perkara keselamatan.

MSDS Version Number	: 0.1
Nombor Versi MSDS	
MSDS Effective Date	: 01.01.2023
MSDS Tarikh Berkuatkuasa	
Uses and Restrictions	: This product must not be use in application other than those recommended in section 1, without first seeking the advice of the supplier.
Kegunaan dan Sekatan	: Produk ini tidak boleh digunakan dalam aplikasi selain daripada yang disyorkan dalam seksyen 1, tanpa terlebih dahulu mendapatkan nasihat pembekal.
MSDS Distribution	: The information in this document should be make available to all who may handle this product.
Pengagihan MSDS	: Maklumat dalam dokumen ini harus tersedia untuk semua yang boleh mengendalikan produk ini.

Disclaimer/ Penafian : This information is base on our current knowledge and is intended to describe the product for the prposes of health, safety and environment requirement only. It should not therefre be construed as guaranteeing any specific property of the product.

Maklumat ini berdasarkan pengetahuan semasa kami dan bertujuan untuk tujuan kesihatan keselamatan dan keperluan alam sekitar sahaja.