

Safety Data Sheet: Glass Isolating Powder FG-02G

1. Identification

Product	Glass Isolating Powder FG-02G; CAS 9011-87-4 / 124-04-9; EC 204-673-3 (adipic acid component)
Use	Closed industrial glass-sheet interleaving and surface separation; collect the powder and cleaning residues.
Company	Hainan Zhongxin Chemical Co., Ltd. (ZXCHEM)
Address	Room 1001, Building A, Caohejing Center, No. 1520 Gumei Road, Xuhui District, Shanghai, China
Telephone / email	+86-21-54265599 / sales@zxchem.com.cn
Emergency contact	ZXCHEM office number above, office hours, China time (UTC+8). For urgent medical assistance contact local emergency services.
Scope	Reference safety information for Glass Isolating Powder FG-02G. The reference composition, concentration and supply-grade differences are described in Section 3. This document does not certify the composition or transport status of a specific delivered batch or a different formulation.

2. Hazards Identification

Classification	Eye irritation Category 2 in the selected PMMA/adipic-acid interleaving reference.
Signal word / symbols	Warning; GHS07
Hazard statements	H319: causes serious eye irritation. Airborne organic powder can form combustible dust mixtures; prevent ignition and dust accumulation.
Prevention	Use closed industrial application and effective dust extraction. Avoid airborne powder and dust accumulation; wear suitable gloves, closed goggles and protective clothing. Control static and ignition, use suitable particulate respiratory protection where needed and collect used powder.
Response	After exposure, stop work and seek medical advice. For severe exposure obtain urgent medical care. Rinse contaminated skin or eyes with water; move an inhalation casualty to fresh air.
Environment	Prevent uncontrolled release to drains, soil or surface water. Collect spills for appropriate disposal.



3. Composition / Information on Ingredients

Reference ingredient	PMMA-based functional powder mixture; legacy supply component identifiers CAS 9011-87-4 and adipic acid CAS 124-04-9, EC 204-673-3. Selected related interleaving reference uses a PMMA polymer identifier CAS 9011-14-7, 49.9–89.8% polymer and 10–50% adipic acid. These related-reference ranges do not establish the FG-02G recipe.
Supply grade	FG-02G; acid value 300–500 mg KOH/g
Applicability	The cited concentration or purity describes the reference material. It is not a certificate of analysis for the delivered batch; different solvents or dilutions require the matching supplier safety document.

4. First-Aid Measures

General	Protect the rescuer from exposure and show the product information to medical personnel. Obtain medical advice if symptoms occur or exposure is significant.
Inhalation	Move to fresh air and keep the person comfortable. Seek medical care for breathing difficulty or persistent symptoms. Avoid exposing rescuers to dust.
Skin	Remove contaminated clothing and rinse skin thoroughly with water. Seek medical advice for persistent irritation.
Eyes	Rinse gently with clean water for at least 15 minutes. Remove contact lenses when easy and continue rinsing. Seek medical advice if irritation persists.
Ingestion	Do not induce vomiting. Rinse mouth if conscious and contact a doctor for symptoms. Never give anything orally to an unconscious person.
Effects / treatment	Dust can irritate eyes and the respiratory tract; serious eye irritation is classified in the related reference. Avoid breathing dust and unnecessary contact. Treatment is symptomatic and directed by a clinician.

5. Fire-Fighting Measures

Extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Avoid a full water jet that disperses dust; firefighters need protective clothing and self-contained breathing apparatus.
Hazards	Combustible dust-air mixtures present a fire or explosion risk. Prolonged heating above 250°C can release methyl methacrylate, carbon oxides, oxidized hydrocarbons and smoke.
Protection	Firefighters require suitable protective clothing and self-contained breathing equipment. Prevent contaminated firefighting water entering drains.

6. Accidental Release Measures

Personal protection	Use closed industrial application and effective dust extraction. Avoid airborne powder and dust accumulation; wear suitable gloves, closed goggles and protective clothing. Control static and ignition, use suitable particulate respiratory protection where needed and collect used powder.
Containment	Avoid raising dust. Collect mechanically or with a suitable industrial dust-extraction system; do not use compressed air. Collect in labelled closed containers.
Environment	Prevent drainage and uncontrolled release; use an approved disposal route.

7. Handling and Storage

Handling	Use closed industrial application and effective dust extraction. Avoid airborne powder and dust accumulation; wear suitable gloves, closed goggles and protective clothing. Control static and ignition, use suitable particulate respiratory protection where needed and collect used powder.
Storage	Store tightly sealed in original containers in a cool, dry area. Protect from moisture, excessive heat and ignition sources. Keep away from strong oxidizers, strong acids, strong bases and fire-promoting materials.
Incompatibilities	Strong oxidizers, strong acids, strong bases and fire-promoting materials. Protect from moisture, excessive heat and ignition sources.

8. Exposure Controls / Personal Protection

Exposure limits	The related reference supplies no mixture-specific national occupational limit. Adipic-acid worker inhalation local DNEL is 5 mg/m ³ , which is not a statutory workplace limit. Control airborne powder and apply local workplace requirements.
Engineering controls	Use local extraction where dust can be generated. Maintain accessible eyewash and emergency washing facilities.
Personal protection	Wear chemical-resistant gloves selected for the task, suitable protective clothing and splash goggles. Add face protection for splash-prone tasks.
Respiratory protection	Use a properly selected respirator under a respiratory-protection program where engineering controls do not adequately limit airborne exposure.
Hygiene	Wash after handling, remove contaminated clothing promptly and do not eat, drink or smoke in the work area.

9. Physical and Chemical Properties

Appearance	White to beige powder
Formula / molecular weight	Polymeric material / Variable polymer molecular weight
Physical state, supply TDS	Powder
pH, supply TDS	2.0–4.5 in 1% water
Acid value, supply TDS	300–500 mg KOH/g
Water response, related reference	Partially soluble; polymer fraction remains particulate
Other properties	Product-specific values for odor threshold, vapor pressure, partition coefficient, autoignition temperature and viscosity are not supplied by the selected reference set. No values are inferred.

10. Stability and Reactivity

Stability	Handle and store under the recommended conditions. Prevent contamination and unnecessary heating.
Incompatibilities	Strong oxidizers, strong acids, strong bases and fire-promoting materials. Protect from moisture, excessive heat and ignition sources.
Decomposition	Combustible dust-air mixtures present a fire or explosion risk. Prolonged heating above 250°C can release methyl methacrylate, carbon oxides, oxidized hydrocarbons and smoke.

11. Toxicological Information

Exposure effects	Dust can irritate eyes and the respiratory tract; serious eye irritation is classified in the related reference. Avoid breathing dust and unnecessary contact.
Reference classification	Eye irritation Category 2 in the selected PMMA/adipic-acid interleaving reference.
Data limits	Related-reference adipic-acid component values: rat oral LD50 5,560 mg/kg; rat dermal LD50 5,010 mg/kg; rat four-hour inhalation LC50 7.7 mg/L. These are component endpoints, not tests on the FG-02G supply mixture. Eye irritation and airborne-dust control are the principal practical concerns.

12. Ecological Information

Environmental effects	The related reference provides no complete mixture-level environmental study. The adipic-acid component is readily biodegradable, while PMMA is a polymer particulate; do not infer biodegradability of the whole mixture. Contain used powder and wash water.
Controls	Prevent uncontrolled release, collect spills and dispose of contaminated material through an authorized route.
Assessment	No product-specific PBT/vPvB assessment is claimed. Absence of data does not establish absence of environmental effects.

13. Disposal Considerations

Product	Collect surplus product and contaminated cleanup material for disposal by an authorized chemical-waste contractor in accordance with local requirements.
Packaging	Containers may retain product residues. Do not reuse contaminated packaging without an approved cleaning process; use an authorized disposal route.

14. Transport Information

Classification	Non-dangerous goods
UN number	Not assigned
Shipping name	Not regulated as dangerous goods
Class / packing group	ADR / RID, ADN, IMDG and ICAO / IATA: non-dangerous goods in the selected PMMA/adipic-acid interleaving reference; no UN number or packing group assigned.
Transport precautions	Protect packaging and closures from damage, secure loads and prevent releases. This reference is not a shipping declaration for a specific consignment.

15. Regulatory Information

Identity	Glass Isolating Powder FG-02G; CAS 9011-87-4 / 124-04-9; EC 204-673-3 (adipic acid component)
HS reference	382499; reference heading rather than a destination customs ruling.
Compliance	Apply applicable workplace, environmental and transport rules. A raw-material listing does not establish authorization for a finished formulation.
Assessment	No ZXCHEM-specific chemical safety assessment or destination registration is asserted.

16. Other Information

Hazard meanings	H319: causes serious eye irritation. Airborne organic powder can form combustible dust mixtures; prevent ignition and dust accumulation.
Limitations	Prepared as reference safety information for the identified material. It is not a batch analytical certificate or safety assessment of a different solvent-containing formulation.
Revision	2026.1; prepared 2026-10-07. Customer-document branding and title corrected; technical safety data retained.
Document scope	Reference safety information for the material and grade described in Sections 1 and 3. Different concentrations, solvents or formulations require the applicable safety information. This is not a batch analytical certificate.

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