

SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name FO (Refer to attachment)
General Use Precision lapping

MANUFACTURER

Company Name Fujimi Incorporated
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Department issuing SDS

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2. HAZARDS IDENTIFICATION

GHS classification

Health hazards

Specific target organ toxicity - Single exposure Category 3

Specific target organ toxicity - Repeated exposure Category 1 (Lungs)

The other hazard categories are "Not applicable," "Not classified," and "Classification not possible."

GHS label elements

Pictograms



Signal words

Danger

Hazard statements

May cause respiratory irritation
Causes damage to organs through prolonged or repeated exposure
inhalation (Lungs)

Precautionary statements

Prevention

Do not breathe dust/fume/gas/mist/vapours/spray.
Use only outdoors or in a well-ventilated area.
Wash thoroughly after handling.

Response

Do not eat, drink or smoke when using this product.
IF INHALED: Remove person to fresh air and keep comfortable for
breathing.

Storage

Get medical advice/attention if you feel unwell.
Store in a well-ventilated place. Keep container tightly closed.
Store locked up.

Disposal Dispose of contents / container in accordance with local / regional / national / international regulation.

3. COMPOSITION, INFORMATION ON INGREDIENTS

<u>Component</u>	<u>Chemical Name</u>	<u>Wt%</u>	<u>CAS Registry#</u>
Al ₂ O ₃	Aluminium oxide	> 40%	1344-28-1
ZrSiO ₄	Zirconium silicate	< 60%	10101-52-7

4. FIRST AID MEASURES

INHALATION	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if needed. If breathing has stopped, loosen tight clothing, ensure clear airway, and give artificial respiration. Do not use mouth-to-mouth resuscitation. If vomiting occurs, place on left side and ensure clear airway.
SKIN CONTACT	Immediately remove contaminated clothing. Wash skin with running water or shower. If skin irritation or rash occurs, get medical attention.
EYE CONTACT	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.
INGESTION	If victim feels unwell, contact a physician. Rinse mouth.
Protection of first aiders	The rescuer wears a tool for appropriate protection such as rubber gloves, goggles.
Expected acute symptom and late symptom	Not available

5. FIRE FIGHTING MEASURES

Fire-Fighting Methods	Combustion or exposure to high heat may cause toxic gases. Wear respiratory protection. The product itself is not flammable. Use spray water to keep containers cool if exposed to flame. Remove containers away from fire area if it can be done safely. Extinguish fire from the windward side where possible.
Extinguishing Media	Use extinguishing media most appropriate for the surrounding fire.
Extinguishing media that do not use it	Not available
Specific hazards	Not available
Autoignition Temperature	Not available
Explosion Limits: Lower	Not available
Explosion Limits: Upper	Not available
FIREFIGHTING INSTRUCTIONS	Wear appropriate protective equipment (gloves, glasses, and mask) while extinguishing fire.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures.	Use appropriate personal protective equipment as indicated in Section 8.
Environmental precautions	Do not release into the environment such as sewers or rivers.
Material and methods for containment and cleanup	Minor spill: Vacuum up or remove in a manner that prevents dust from spreading. Major spill: Cover the area with plastic sheets or similar to prevent the spill from spreading. Collect in drums for reuse or disposal.

Preventive measures for secondary accident Do not release into sewers, surface water, or groundwater.

7. HANDLING AND STORAGE

HANDLING

Wear appropriate protective equipment and handle in a manner that prevents inhalation of dust. Provide local ventilation to prevent dust build-up.

PRECAUTIONS FOR SAFE HANDLING

Avoid dust inhalation. Do not touch, inhale, or swallow.

STORAGE

Store in a well-ventilated area. Wear appropriate protective equipment such as protective gloves and protective glasses to prevent contact with the skin, mucous membranes, clothes, or eyes. Avoid eye and skin contact.

The safe container materials for packaging.

Keep in the polyethylene container.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use local exhaust device on polisher.

Protective Equipment

Eye / Face Protection

Wear appropriate protective eyeglasses or chemical safety goggles.

Hand Protection

Wear appropriate protective gloves to prevent skin exposure.

Respiratory Protection

Use protective masks and canisters appropriate for the dust, mist, and gases.

Skin and body protection

Protective clothes, protective boots, protective aprons

EXPOSURE GUIDELINES

ACGIH Al₂O₃ TWA 1mg/m³

ACGIH ZrSiO₄ TWA 5mg/m³, STEL 10mg/m³ (as Zr)

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Powder

Color

Light brown

Odor

Odorless

Specific Gravity

4.2

Flash Point

Not available

Solubility in Water

Insolubility

pH

Not applicable

Viscosity

Not available

10. STABILITY AND REACTIVITY

Chemical Stability

Stable at normal temperatures and pressure.

Conditions to Avoid

Dust generation.

Materials to avoid

Not available

Hazardous Decomposition Products

Not available

Hazardous Polymerization

Not available

11. TOXICOLOGICAL INFORMATION

Acute toxicity (oral)

No data is available on the product itself.

Acute toxicity (dermal)

No data is available on the product itself.

Acute toxicity (inhalation)

No data is available on the product itself.

Skin Corrosion/Irritation	No data is available on the product itself. May cause irritation to skin and cause skin roughness upon repeated contact, if a person has hypersensitive constitution.	
Eye Damage/Irritation	No data is available on the product itself. May cause irritation and inflammation to eyes in the worst case.	
Respiratory sensitization	No data is available on the product itself.	
Skin sensitization	No data is available on the product itself.	
Germ cell mutagenicity	No data is available on the product itself.	
Carcinogenicity	No data is available on the product itself.	
Reproductive toxicity	No data is available on the product itself.	
Specific target organ toxicity - Single exposure	Al ₂ O ₃	Inhalation of high concentrations of dusts of this substance may cause eyes and upper respiratory tract irritation. 1)
Specific target organ toxicity - Repeated exposure	Al ₂ O ₃	Aluminium oxide was the most likely cause for the development of interstitial fibrosis in these workers. 2)

12. ECOLOGICAL INFORMATION

HAZARDOUS TO THE AQUATIC ENVIRONMENT

No data is available on the product itself.

13. DISPOSAL CONSIDERATIONS

Comply with all national and local regulations.

Do not dump this product into sewers, on the ground or into any body of water.

14. TRANSPORT INFORMATION

UN No	Not applicable
UN Proper Shipping Name	Not applicable
Hazard Class	Not applicable
Packing Group	Not applicable

15. REGULATORY INFORMATION

TSCA inventory	All components on TSCA inventory.
OSHA (Occupational Safety & Health Act) Hazard Chemical	Applicable
TRI (Toxic Release Inventory)	Not applicable

16. OTHER INFORMATION

The information contained in this SDS is based on data currently available and is subject to revision as additional knowledge and experience are gained. Precautions are given on the assumption that the product is handled in a usual manner. If the product is to be used in a special manner or environment, proper safety measures must be taken according to the application and method used. The information is provided without any warranty, express or implied, regarding its correctness.

References

- 1) ICSC (International Chemical Safety Cards)
- 2) EHC (Environmental Health Criteria)

Attachment

Product name list

FO#240	
FO#280	
FO#320	
FO#400	
FO#500	
FO#600	
FO#700	
FO#800	
FO#1000	
FO#1200	
FO#1200MR	
FO#1500	
FO#2000	
FO#3000	
FO#4000	
FO#6000	
FO#7000	