

**SAFETY DATA SHEET**

Issue Date: April. 1. 2024

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Product name : PTFE Micropowder
Types : PTFE L180J

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Mixture : Additive for lubrication

1.3. Details of the supplier of the safety data sheet

Company(Manufacturer) : KITAMURA LIMITED
1-242, Shiratsuchi, Haruki, Togo-cho, Aichi-gun, Aichi Pref.
470-0162, Japan
Tel : +81-52-803-5151
Fax : +81-52-803-5190
E-mail : info@kitamura ltd.jp

1.4. Emergency telephone number

Tel : +81-52-803-5151

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture**

GHS : Not applied

2.2. Label elements

GHS : Not applied

2.3. Other hazards

The thermal decomposition gas of P.T.F.E. may cause polymer fume fever with flu-like symptoms, when thermally decomposed or smoking contaminated tobacco.

SECTION 3: Composition/information on ingredients**3.1. Substances**

Chemical name : Polytetrafluoroethylene (P.T.F.E.) 100%
Molecular formula : (-CF₂-CF₂-)_n
CAS No. : 9002-84-0
REACH : Registered
TSCA : Listed
IECSC : Listed

3.2. Mixtures



Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	: Remove from exposure. Move to fresh air in case of accidental inhalation of dust or decomposition gas. Consult a physician.
Skin contact	: Wash skin with soap and water.
Eye contact	: Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes.
Ingestion	: No hazards which require special first aid measures.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms	: Polymer fume fever
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4.3. Indication of any immediate medical attention and special treatment needed

Treatment	: Treat symptomatically.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

All extinguishing agents suitable. (Water, Carbon dioxide, Foam, Dry chemical)

5.2. Special hazards arising from the substance or mixture

Highly toxic fumes may be emitted. (Hydrogen fluoride [HF], Carbonyl fluoride, Carbon monoxide, Low molecular weight Fluorocarbons)

5.3. Advice for firefighters

Wear self-contained breathing apparatus. Wear suitable protective equipment. Wear neoprene gloves during cleaning up work after a fire.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Ventilate the area. Refer to protective measures listed in sections 7 and 8. Material can create slippery conditions.

6.2. Environmental precautions

No special environmental precautions required.

6.3. Methods and material for containment and cleaning up

Clean up promptly by sweeping or vacuum. Recommend using mechanical handling equipment.



6.4. Reference to other sections

For disposal instructions see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid breathing dust. Avoid contamination of smoking materials with PTFE.
All heated processing equipment must be vented to atmosphere outside the building, because decomposition starts at temperatures above about 250°C.

7.2. Conditions for safe storage, including any incompatibilities

No special precautions. Avoid contamination. Keep containers closed in a dry and well-ventilated place.

7.3. Specific end use(s)

No data available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No data available

8.2. Exposure controls

Engineering controls	: Use general or local exhaust ventilation to meet the exposure requirement.
Personal protective equipment	
Respiratory protection	: Mask to avoid irritation in dusty situations.
Skin protection	: Heat resistant gloves. If there is a potential for contact with hot or molten material, wear heat resistant clothing and footwear.
Eye protection	: Safety glasses with side-shields.
Additional recommendations	: Avoid contamination of smoking materials with polymer dust.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	: White powder
Odour	: None
Boiling point	: Not applicable
Melting point	: 320°C or more
Flash point(method)	: Does not flash (Open cup)
Autoflammability	: Not applicable
Ignition temperature	: If heated in air in the absence of a flame, it will start to burn at about 575°C.
Oxidizing properties	: Non-oxidizing



Explosive limits	: Not applicable
Vapour pressure(20°C)	: Not applicable
Water solubility(20°C)	: Insoluble
pH	: Not applicable
Viscosity	: Not applicable

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

No decomposition if stored and applied as directed.

10.2. Chemical stability

Stable

10.3. Possibility of hazardous reactions

During heating, small amounts of hazardous gases and/or particulate matter may be released.
These may irritate eyes, nose and throat. Large molten masses may give off hazardous gases.
Stable under normal conditions.

10.4. Conditions to avoid

To avoid thermal decomposition, do not overheat. Abnormally long processing time or high temperatures can produce irritating and toxic fumes. Stable under normal conditions.

10.5. Incompatible materials

Avoid from powdered metals.
Finely divided aluminium, potent oxidizers like fluorine (F₂), related compounds.
Reacts with molten alkali metals and finely divided magnesium and aluminum at temperatures above 425°C.

10.6. Hazardous decomposition products

Hydrogen fluoride (HF), Carbonyl fluoride, Carbon monoxide, and Low molecular weight fluorocarbons.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity Oral LD50	: Mouse 1,250mg mg/kg, Rat 12,500mg/kg
Primary skin irritation	: Not irritant
Primary eye irritation	: Physical irritation
Genetic studies	: No data available
Repeated dose oral toxicity	: No data available
Carcinogenic classification	: IARC GROUP 3

SECTION 12: Ecological information



- 12.1. Toxicity : No data available
- 12.2. Persistence and degradability : No data available
- 12.3. Bioaccumulative potential : No data available
- 12.4. Mobility in soil : No data available
- 12.5. Results of PBT and vPvB assessment : No data available
- 12.6. Other adverse effects : No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dump in accordance with local regulations. Combustion products will include acidic substances.
Facility must be capable of handling halogenated materials.

SECTION 14: Transport information

- 14.1. UN number : Not applicable
- 14.2. UN proper shipping name : Not applicable
- 14.3. Transport hazard class(es) : Not applicable
- 14.4. Packing group : Not applicable
- 14.5. Environmental hazards : None
- 14.6. Special precautions for user : No data available
- 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:
Not applicable

SECTION 15: Regulatory information

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

Regulation (EU)2019/1021: Compliant

15.2. Chemical safety assessment

No data available

SECTION 16: Other information



Do not use KITAMURA materials in medical applications involving implantation in the human body or contact with internal body fluids or tissues.
Please contact your Kitamura representative before using in food contact applications.

The information given in this safety data sheet is for safety purpose only. It is given in good faith and based on the best knowledge and experience of the company at the date of issuing. The company is not responsible for damages caused by the use of the product in applications for which it was not intended or for conditions of use of its control.

KITAMURA SDSs are available at <http://www.kitamura ltd.jp>.