

Safety Data Sheet (SDS)

Date prepared 1-May-2001
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Applicable products CHUKOH FLO® Spaghetti Tube (PTFE)

1. Product and company identification

Product name See the applicable products above.
 Company name CHUKOH CHEMICAL INDUSTRIES, LTD.
 Address ATT New Tower 10F, 2-11-7, Akasaka, Minato-ku, Tokyo
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 Recommended use and restrictions on use For industrial use

2. Hazards identification

GHS Classification

Not applicable

3. Composition/information on ingredients

Substance/Mixture

Substance

Chemical name or generic name	Concentration or concentration ranges	Chemical formula	Reference No. in gazetted list in Japan		CAS No.
			Chemical Substances Control Law	Industrial Safety and Health Act	
Poly-Tetra-Fluoro-Ethylene (PTFE)	100%	abridgement	6-939	6-939	9002-84-0

Impurities and stabilizing additives which contribute to the classification of the substance

No information available

4. First-aid measures

Inhalation

If fumes from heating or burning are inhaled, remove to fresh air and keep at rest in a position comfortable for breathing. Seek medical advice/attention if you feel unwell.

Skin contact

Wash with plenty of soap and water.
 If molten polymer contacts skin, cool rapidly with cold water. Do not attempt to peel polymer from skin. Seek medical advice/attention if irritation occurs.

Eye contact

Flush eyes cautiously with water for several minutes. Seek medical advice/attention if irritation persists.

Ingestion

Rinse mouth.
 Seek medical advice/attention if you feel unwell.

5. Fire-fighting measures

Extinguishing media

Use extinguishing media appropriate for surrounding fire: Water, foam, powder, etc.

Specific hazards

This product is hardly flammable.
 Fire may produce irritating, corrosive, and/or toxic gas.

Specific fire-fighting procedures

Move product from fire area if you can do so without risk. Fight fire from maximum distance and use unmanned hose holders or monitor nozzles.

Special protective equipment and precautions for firefighters

Wear self-contained breathing apparatus (SCBA). Firefighters should wear protection clothing and self-contained breathing apparatus (SCBA).

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear suitable protective equipment (see Section 8, Exposure controls/personal protection) to prevent inhalation and exposure of eyes or skin.

Environmental precautions

Avoid discharge to rivers and environmental effects.

Methods and materials for containment and cleaning up

Break into small pieces. Collect if scatter. Dispose in accordance with Section 13.

7. Handling and storage

Handling

Technical measures

Install equipment in Section 8, Exposure controls/personal protection. Wear protective equipment.

Precautions for safe handling

Prohibit the use of heat, sparks, and fire in the surrounding area.

Watch out for fire.

Do not carry cigarettes, cigars or tobaccos and do not smoke in the workplace as decomposition gas may be inhaled by smoking if the substance contacts them.

Ensure good ventilation/exhaustion.

Avoid breathing dust/fume.

Wash hands thoroughly after handling.

Do not use and heat this products over 260°C.

If there is a risk of above, good ventilation is necessary and also local exhaust equipment is to be installed.

Avoidance of contact

See Section 10, Stability and reactivity.

Hygiene measures

Wash hands thoroughly after handling.

Storage

Conditions for safe storage

Stable at normal storage conditions. Storage at or below 25°C and 60% RH is preferred.

Keep away from oxidizing agents.

Safe containers and packaging materials

No restriction for packaging materials. Use containers which will not be broken.

8. Exposure controls/personal protection

Allowable concentration

Not set

Engineering measures

In a process to heat over 260°C, good ventilation is necessary and also local exhaust equipment is to be installed.

Protective equipment

Respiratory protection

Wear appropriate respiratory protection if ventilation is not enough.

Hand protection

Wear appropriate gloves.

Eye protection

Wear appropriate protective eyeglasses.

Skin and body protection

Wear appropriate protective clothing.

9. Physical and chemical properties

Appearance

Physical state

Solid

Form

Tubular

Color

White

Odor

Odorless

Odor threshold

Not available

pH

Not available

Melting point/freezing point

327°C

Boiling point, initial boiling point,

Not available

Flash point

Not available

Evaporation rate (butyl acetate=1)

Not available

Flammability (solid, gas)

Flame Retardancy

Flammable/explosive limit

Lower

Not available

Upper

Not available

Vapor pressure

Not available

Vapor density (Air=1)

Not available

Specific gravity (density)

2.1–2.3g/cm³

Solubility

Not available

Partition coefficient (n-octanol/water)

Not available

Autoignition temperature

Not available

Decomposition temperature

Not available

Viscosity

Not available

10. Stability and reactivity

Reactivity

Hazardous reactions will not occur under normal conditions. Begins to decompose, very slowly, at temperatures above 260°C. Thermal decomposition is more rapid at temperatures above 400°C.

Chemical stability		Stable under normal storage and handling conditions. May react with metal powders such as aluminum and magnesium or with fluorine compounds such as fluorine and chlorine trifluoride, and cause fire and explosion.
Possibility of hazardous reactions		Hazardous reaction or polymerization generating excessive pressure/heat will not occur.
Conditions to avoid		Heat. Contact with incompatible materials.
Incompatible materials		Metal powders such as aluminum and magnesium or fluorine compounds such as fluorine and chlorine trifluoride.
Hazardous decomposition products		Thermal decomposition of this product may evolve the following decomposition products at the following temperatures: Carbonyl fluoride and hydrogen fluoride (above 400°C). Tetrafluoroethylene (above 430°C). Hexafluoropropylene (above 440°C). Perfluoroisobutylene (above 475°C).
11. Toxicological information		
Acute toxicity	Oral	LD50 in mouse : 12,500mg/kg
	Dermal	Not available
	Inhalation (vapor)	Not available
	Inhalation (dust)	Not available
Skin corrosion/irritation		Not available
Serious eye damage/eye irritation		I feel a foreign body and irritate the mucosa.
Respiratory sensitization		Not available
Skin sensitization		Not available
Germ cell mutagenicity		Not available
Carcinogenicity		Not available
Reproductive toxicity		Not available
Specific target organ toxicity (single exposure)		Not available
Specific target organ toxicity (repeated exposure)		Not available
Aspiration hazard		Not available
Others	Effects on humans	Inhalation of fumes from burning may produce polymer fume fever, a temporary flu-like condition with fever, chills and cough. This may last for a whole day and night. Skin absorption will not occur. There are no reports of sensitization.
	Effects of hydrogen fluoride	Inhalation of low concentrations of hydrogen fluoride can initially include symptoms of choking, coughing, and severe eye, nose, and throat irritation, fever, chills for one to two days, followed by difficulty in breathing, cyanosis, and pulmonary edema. Overexposure to hydrogen fluoride can injure the liver and kidneys.
	Effects of carbonyl fluoride	Skin: Irritation with discomfort or rash Eye: Corrosion with corneal or conjunctival ulceration Upper respiratory passage: Irritation Lung: Temporary irritation effects with cough, discomfort, difficulty in breathing, or shortness of breath
12. Ecological information		
Hazardous to the aquatic environment (acute)		Not available
Hazardous to the aquatic environment (long-term)		Not available
Hazardous to the ozone layer		Does not contain any substances that deplete the ozone layer listed in Annexes to the Montreal Protocol.
13. Disposal considerations		
Waste from residues		Dispose in accordance with applicable laws and regulations and standards of local governments. Entrust the disposal to a licensed waste disposal contractor or a local public body who conducts the disposal. When entrusting the disposal to a disposal contractor, notify the danger and toxicity thoroughly to the contractor.

Contaminated container and packaging

Dispose in accordance with applicable laws and regulations and standards of local governments.

14. Transport information		
International regulations	Regulatory Information by Sea	Not dangerous goods
	Regulatory Information by Air	Not dangerous goods
Domestic regulations (Japan)	Land transport regulations	Not applicable
	Marine transport	Not dangerous goods
	Air transport regulations	Not dangerous goods
Special safety measures		Confirm that there is no damage, corrosion, or leakage of the containers before transportation. Avoid direct sunlight at transportation. Load containers not to cause damage, corrosion or leakage and thoroughly prevent load collapse. Do not stack heavy objects.
Emergency Response Guidebook No.		None
15. Regulatory information		
		None applicable
16. Other information		
		Hazard statements herein are made based on the assumption of industrial use and general handling. Handle with care at the actual use by referring to the hazard statements herein.
	Restrictions on use	This product is not intended for medical use. Do not use this product for implant or in a way that will contact with the body fluid or tissue. Consult with us in advance if it is expected to use the product in medical field.
	References	SDS made by raw material manufacturers.

The information herein may be revised if any new findings are obtained.

Values of concentration and physical and chemical properties are not guaranteed values.

Hazards identification was prepared based on the documents, information and data available at the time of preparation, but it does not mean that all documents, information and data are covered.