

## Safety Data Sheet (SDS)

Date prepared 29-Apr-2016  
Date revised 1-Feb-2024

Applicable products CHUKOH FLO™ Adhesive tape  
ASF-110FR, ASF-110, ASF-110FN, ASF-119T, ASF-130T, ASM-110

### 1. Product and company identification

Product name	See the applicable products above.
Product code	-
Company name	CHUKOH CHEMICAL INDUSTRIES, LTD.
Address	ATT New Tower 10F, 2-11-7, Akasaka, Minato-ku, Tokyo
Telephone	03-6230-4414/81-3-6230-4417
Fax	03-6230-4413/81-3-6230-4446
Recommended use	For industrial use
Restrictions on use	For industrial use
Information on domestic manufacturers, etc.	See above

### 2. Hazards identification

GHS Classification	Not applicable
GHS label elements	Not applicable
Pictures or symbols	No information available
Warning statements	No information available
Hazard information	No information available
Cautionary statements	No information available
Other hazards not related to or addressed by the GHS classification	No information available
Summary of important indications and possible emergencies	No information available
Other	Not hazardous under normal handling. Heating fluorocarbon resin produces pyrolysis products (fumes), which may cause eye, nose, and lung irritation if inhaled.

### 3. Composition/information on ingredients

Substance/Mixture Mixture

Chemical name or generic name	Concentration or concentration ranges	Reference No. in gazetted list in Japan		CAS No.
		Chemical Substances Control Law	Industrial Safety and Health Act	
Polytetrafluoroethylene (PTFE)	17-80%	6-939	6-939	9002-84-0
Adhesive material of silicone group	2.0-58%	-	-	-

Ingredients contributing to GHS classification 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.
The most important manifestations of acute and delayed symptoms	No information available
Precautions necessary for the protection of persons who provide first-aid measures	No information available
Special precautions for physicians	No information available

## 5. Fire-fighting measures

Appropriate fire extinguishing media	Small fires: Dry chemical, carbon dioxide, water spray, and general foam. Large fires: Water spray, water mist, and general foam.
Fire extinguishing media that should not be used in case of fire	No information available
Specific fire hazards	This product hardly flammable. Fire may produce irritating, corrosive, and/or toxic gas.
Specific fire extinguishing methods	Move product from fire area if you can do so without risk.
Special protective equipment and precautions for firefighters	Wear self-contained breathing apparatus (SCBA). Firefighters should wear protection clothing and self-contained breathing apparatus (SCBA).
Cautions	When fluorocarbon resin is exposed to high temperatures, it produces harmful particulates, fumes, and gases. In case of fire, evacuate upwind as far as possible to avoid inhalation.

## 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.
Measures to prevent secondary accidents	No information available

## 7. Handling and storage

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

Precautions for safe handling	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. Do not eat, drink or smoke when using the product. Prohibit the use of heat, sparks, and fire in the surrounding area. Watch out for fire. Do not touch, inhale or swallow this product. Use exhaust ventilation to maintain airborne levels below exposure limits.
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Avoidance of contact Hygiene measures	See Section 10, Stability and reactivity. Wash hands thoroughly after handling.
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Storage

Conditions for safe storage	Stable at normal storage conditions. Storage at or below 25°C and 60% RH is preferred.
Safe containers and packaging materials	No restriction for packaging materials. Use containers which will not be broken.

8. Exposure controls/personal protection

Control concentration Allowable concentration Engineering measures	Not set Use explosion-proof electrical/ventilating/lighting/equipment. Good general ventilation should be sufficient to control airborne levels. If dust or fume is generated at high temperature install ventilation equipment to keep concentration of air pollutant below administrative level/allowable concentration limit.
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Protective equipment

Respiratory protection	Wear respiratory protection. Wear air-supplied respirators or gas mask for organic gas.
Hand protection	Wear eye protection.
Eye protection	Wear personal protective equipment including protective clothing and protective mask if necessary.
Skin and body protection	Wear personal protective equipment including protective clothing and protective mask if necessary.

9. Physical and chemical properties

Appearance

Physical state	Solid
Color	White

Odor	Odorless
Melting point/freezing point	Not available
Boiling point, initial boiling point, and boiling range	Not available

Flammability	Flame Retardancy
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Lower explosion limit and upper explosion limit/flammable limit	Lower Upper	Not available Not available
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Flash point	Not available
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Autoignition temperature		Not available
Decomposition temperature		Not available
pH		Not available
Viscosity		Not available
Solubility		Insoluble in water. Swells in some solvents.
Partition coefficient (n-octanol)		Not available
Vapor pressure		Not available
Density and/or relative density		Not available
Relative gas density		Not available
Particle characteristics		Not available
Other data		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	Not available
	Dermal	Not available
	Inhalation (vapor)	Not available
	Inhalation (dust)	Not available
Skin corrosion/irritation		Not available
Serious eye damage/eye irritation		Not available
Respiratory or 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
Swallowing hazard	Not available
Others	Thermal decomposition of fluoropolymers may generate polymer fumes, hydrogen fluoride, carbonyl fluoride, and perfluoroisobutylene. The toxicity information is as follows.
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 (Individuals with pre-existing diseases of the lungs may have increased susceptibility to the toxicity after excessive exposures to thermal decomposition products.)
Effects of perfluoroisobutylene	Even trace amounts are extremely toxic.
<b>12. Ecological information</b>	
Ecotoxicity	Not available Handle with care as leakage or disposal may affect the environment. In particular, ensure that the product does not flow directly into the ground, rivers or drains.
Persistence and degradability	Not available
ecological accumulative property	Not available
Mobility in soil	Not available
Hazardous to the ozone layer	Does not contain any substances that deplete the ozone layer listed in Annexes to the Montreal Protocol.
<b>13. Disposal considerations</b>	
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.
<b>14. Transport information</b>	
UN number	Not dangerous goods
Item (UN transport name)	Not dangerous goods

UN Classification	Not dangerous goods
Container grade	Not dangerous goods
marine pollutant	Not dangerous goods
Liquid substances transported in bulk according to MARPOL 73/78 Annex II and IBC Code	Not dangerous goods
Special safety measures for transportation or means of transportation	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.

Regulatory information on domestic regulations, if any Not applicable

15. Regulatory information

Applicable laws and regulations and information on requirements imposed by such laws and regulations

Pollutant Release and Transfer Register (PRTR) Not applicable

Industrial Safety and Health Law Not applicable

Poisonous and Deleterious Substances Control Act Not applicable

Other applicable laws and regulations and information on requirements imposed by Not 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.