Safety Data Sheet (SDS)

Date prepared 3-Feb-2016 Date revised 30-May-2019

CHUKOH FLO[™] FABRIC Applicable products FGF Series, FGP Series, FGA Series, and

MS Series

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

Telephone 03-6230-4414/81-3-6230-4417 Fax 03-6230-4413/81-3-6230-4446

Recommended use and

restrictions on use

For industrial use

2. Hazards identification **GHS Classification**

Not applicable

3. Composition/information on ingredients

Substance/Mixture Mixture

Chemical name or generic name	Concentration or concentration ranges	Chemical formula	Reference No. in gazetted list in Japan		
			Chemical Substances Control Law	Industrial Safety and Health Act	CAS No.
Fluoro resin	17-85%	_	_	_	_
Glass	15-83%		Not applicable(Mi xture)	Not known	65997-17-3

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.

Rinse mouth.

Seek medical advice/attention if you feel unwell.

5. Fire-fighting measures

Ingestion

Extinguishing media This product is hardly flammable.

Use extinguishing media appropriate for surrounding fire:

Water, foam, powder, etc.

Specific hazards 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.

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

Methods and materials for containment and cleaning up

Avoid discharge to rivers and environmental effects. 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

Do not smoke where this product is handled.

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. Wash hands thoroughly after handling. Ensure good ventilation/exhaustion.

Avoid breathing dust/fume.

Do not use at high temperatures. Do not heat.

If this product may be used at high temperatures or heated, provide good ventilation and local exhaust ventilation system.

Avoidance of contact Hygiene measures

See Section 10, Stability and reactivity. 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.

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 Provide good ventilation and local exhaust ventilation system

during heating process.

Protective equipment Wear appropriate respiratory protection if ventilation is not Respiratory protection

enough.

Hand protection Wear appropriate gloves. Wear eye protection. Eye protection

Skin and body protection Wear personal protective equipment including protective

clothing and protective mask if necessary.

9. Physical and chemical properties

Appearance

Odor threshold

Odor

Solid Physical state Form Sheet

Color Light brown Odorless Not available Not available

рΗ Melting point/freezing point Not available Boiling point, initial boiling point, Not available Flash point Not available Evaporation rate (butyl Not available

acetate=1)

Flame Retardancy Flammability (solid, gas) Not available Flammable/explosive limit Lower Not available Upper Vapor pressure Not available Not available Vapor density (Air=1)

Specific gravity (density) Not available Solubility Insoluble in water. Partition coefficient (n-Not available

octanol/water)

Autoignition temperature Not available Decomposition temperature Not available Viscosity Not available 10. Stability and reactivity

Conditions to avoid

Reactivity Not available

Chemical stability Stable under normal storage and handling conditions.

Decomposes on heating or burning, emitting toxic fumes

CHUKOH CHEMICAL INDUSTRIES LTD

including those of hydrogen fluoride.

Possibility of hazardous reactions Hazardous reaction or polymerization generating excessive

> pressure/heat will not occur. No information available

Incompatible materials Metal powders such as aluminum and magnesium or fluorine

compounds such as fluorine and chlorine trifluoride. Thermal decomposition will generate large amount of hydrogen fluoride, carbonyl fluoride, etc. at high

temperatures.

11. Toxicological information

Hazardous decomposition products

Oral Not available Acute toxicity Not available Dermal Inhalation (vapor) Not available

> Inhalation (dust) Not available

Skin corrosion/irritation Not available Serious eve damage/eve irritation Not available

Respiratory sensitization Not available Skin sensitization Not available Germ cell mutagenicity Not available Not available Carcinogenicity

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

Effects of hydrogen

fluoride

Inhalation of low concentrations of hydrogen fluoride can initially include symptoms of choking, coughing, and severe eve. 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

kidnevs.

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.)

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.		
1.1	. Transport information				
14	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	yar dansport regulations	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		
4-	B 1. 16				
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.		

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

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

References

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.

SDS made by raw material manufacturers.