

SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

Product Name FLUON® PTFE Granular & Coagulated Dispersion Grades

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Use Subject to Member State regulations, applicable uses are: mouldings and

extrusions

2. HAZARDS IDENTIFICATION

Low oral toxicity.

The major health hazard associated with this material is the inhalation of thermal decomposition products. Contamination of tobacco products MUST be avoided.

Classification of the substance or mixture

Directive 67/548/EEC & Directive

1999/45/EC

Not classified

Regulation (EC) No. 1272/2008 (CLP). Not classified

3. COMPOSITION / INFORMATION ON INGREDIENTS

Product Description Polytetrafluoroethylene (PTFE) CAS No. 009002-84-0.

Note: The main constituent of this product is a polymer as defined under the REACH Regulation (EU) No 1907/2006 and is not subject to REACH registration.

4. FIRST AID MEASURES

Inhalation Inhalation of fumes: Remove patient from exposure, keep warm and at

rest. Obtain medical attention.

Skin Contact If symptoms persist, obtain medical attention.

Eye Contact Remove particles by irrigating with eye wash solution or clean water,

holding the eyelids apart. Obtain medical attention.

Ingestion Do not induce vomiting. Wash out mouth with water and give 200-300 ml

(half a pint) of water to drink. Obtain medical attention.

Further Medical Treatment Symptomatic treatment and supportive therapy as indicated.

Inhalation of fumes: Keep under medical review for possible development

of 'Polymer Fume Fever'.

Following severe exposure the patient should be kept under medical review for at least 48 hours as delayed pulmonary oedema may develop.

Product Name FLUON® PTFE Granular & Coagulated Dispersion Grades Revision: CLP01

Date: 08/2013

Page: 1 of 5



5. FIRE-FIGHTING MEASURES

General Low fire hazard.

If a flame is applied to the material it will ignite but if the flame is removed

then combustion ceases.

Combustion or thermal decomposition will evolve very toxic and corrosive

vapours. See Also Section 10

Extinguishing media As appropriate for surrounding materials/equipment.

Fire Fighting Protective Equipment A self contained breathing apparatus and full protective clothing must be

worn in fire conditions.

Wear neoprene gloves when handling refuse from a fire involving this product, to protect against possible contamination with hydrofluoric acid.

6. ACCIDENTAL RELEASE MEASURES

General Caution - spillages may be slippery.

Clear up spillages. Transfer to a container for disposal or recovery.

7. HANDLING AND STORAGE

Handling Avoid contact with naked flames and hot surfaces as corrosive and very

toxic decomposition products can be formed.

When using do not smoke.

Contamination of tobacco products MUST be avoided. 'Polymer Fume Fever' is particularly associated with the smoking of contaminated tobacco products. Wash face and hands before eating, drinking or smoking.

Care must be taken to avoid transfer of PTFE particles from hands or clothing onto materials which may be burnt.

Extra care should be taken to prevent burns from contact with hot

material.

Process Hazards

The major health hazard associated with this material is the inhalation of thermal decomposition products. Avoid inhalation of vapours that may be

evolved at elevated temperatures.

Processing coagulated dispersions requires the addition of a lubricant which is usually a volatile petroleum fraction. The use of these lubricants presents a significant fire and explosion hazard, particularly in in-line operations where the drying oven is immediatly followed by a high temperature sintering oven. (Consult the Safety Data Sheet of the lubricant supplier for health and explosion data on the lubricant.) Sintering -

Fume from high temperature processing may be toxic and corrosive. Exposure to fumes from the sintering and high temperature processing of PTFE may give rise to a condition called 'Polymer Fume Fever'.

This condition is characterised by influenza type symptoms occurring a few hours after exposure and lasting up to 48 hours.

Thermal decomposition at temperatures greater than 380 Deg C yields a range of highly toxic and corrosive products.

Chemicals produced during thermal decomposition are highly dependent upon temperature and conditions. Exposure to these

combustion/decomposition products must be avoided.

Temperatures greatly in excess of the normal sintering range must be avoided.

Sintering ovens should be fitted with automatic temperature cut-outs set to 20 Deg C above the sintering oven set point. Ovens must be regularly maintained to ensure adequate temperature control and to prevent air leaks to work areas. All heating processing equipment must be vented safely, to atmosphere outside the building.

PTFE must be cleaned from equipment before any burning or welding takes place.

Storage No special requirements.

Specific use Subject to Member State regulations, applicable uses are: mouldings and

extrusions

Product Name FLUON® PTFE Granular & Coagulated Dispersion Grades Revision: CLP01

Date: 08/2013

Page: 2 of 5



8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General Wear suitable gloves if prolonged skin contact is likely. PVC gloves are

suitable.

Approved dust mask and goggles should be worn if exposure to high dust levels are likely. Where a cartridge/canister respirator is suitable use: Type P3 CEN143. Check with protective equipment manufacturer's data. Wear thermal insulating gloves and a face shield when handling hot

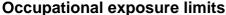
masses.

Eye Protection

Wear protective eyewear (goggles, face shield, or safety glasses).

Gloves

PVC gloves are suitable.



Occupational exposure limits	CAS No.	LTEL	LTEL 8	STEL	STEL	Note:
		(8 hr	hr	(ppm)	mg/m³	
		TWA	TWA	,		
		ppm)	mg/m³			
Dust (Total Inhalable Dust)			10			WEL
Dust (Respirable Dust)			4			WEL

9. PHYSICAL AND CHEMICAL PROPERTIES

Form powder
Colour. white
Odour odourless
Odour threshold (ppm) Not applicable.
Solubility (Water) insoluble

Solubility (Other) insoluble in all common solvents.

Partition coefficient (n-Octanol/water) Not applicable. Boiling Point (° C) Not applicable. Melting Point (° C) Not applicable. Vapour pressure (Pascal) Not applicable. Density (g/ml) 2.2 at 20 ° C Flash point (°C) [Closed cup] Not applicable. Flammable Limits (Upper) (%v/v) Not applicable. Flammable Limits (Lower) (%v/v) Not applicable. **Explosive Properties** Non-explosive.

Oxidising Properties Inert

pH (Value) Not applicable. Auto ignition point (°C) 575 approx

Decomposition temperature (°C) >260 Significant decomposition above 400 Deg C.

Softening Point (°C) 342

Bulk Density (g/ml) 0.5 approx (Refer to grade technical data sheet for values)

Additional properties Limiting Oxygen Index (% O2): 95 Underwriters Laboratory Rating: 94V-0

10. STABILITY AND REACTIVITY

Hazardous Reactions Inert

Hazardous Decomposition Product(s)

Thermal decomposition will evolve very toxic and corrosive vapours.

(hydrogen fluoride, carbonyl fluoride, tetrafluoroethylene,

hexafluoropropene and perfluoroisobutene)

Chemicals produced during thermal decomposition are highly dependent

upon temperature and conditions.

Product Name FLUON® PTFE Granular & Coagulated Dispersion Grades Revision: CLP01

Date: 08/2013 Page: 3 of 5



11. TOXICOLOGICAL INFORMATION

Inhalation High concentrations of dust may be irritant to the upper respiratory tract.

Fume from high temperature processing may be toxic and corrosive. Exposure to fumes from the sintering and high temperature processing of

PTFE may give rise to a condition called 'Polymer Fume Fever'. This condition is characterised by influenza type symptoms occurring a

few hours after exposure and lasting up to 48 hours.

'Polymer Fume Fever' can result from smoking tobacco products

contaminated with PTFE.

Skin Contact May cause physical abrasion in contact with skin.

Eye Contact May cause physical abrasion in contact with eyes.

Ingestion Low oral toxicity. Unlikely to be hazardous if swallowed.

Long Term Exposure Repeated exposure to toxic and corrosive fume from the sintering and

high temperature processing of PTFE may lead to adverse effects on the

lungs or fluorosis.

12. ECOLOGICAL INFORMATION

Environmental Fate and Distribution Solid with low volatility.

The substance is essentially insoluble in water.

Toxicity Adverse effects would not be expected.

13. DISPOSAL CONSIDERATIONS

Regulatory information Disposal should be in accordance with local, state or national legislation.

Recommended Bury on an authorised landfill site or incinerate under approved controlled

conditions. This product may be incinerated above 800 Deg C using a

scrubber to remove Hydrogen Fluoride.

14. TRANSPORT INFORMATION

Not Classified as Hazardous for Transport.

15. REGULATORY INFORMATION

European Regulations

Classification of the substance or mixture

Directive 67/548/EEC & Directive Not classified

1999/45/EC

According to Regulation (EC) No. 1272/2008 Not classified

(CLP).

CONTAINERS WITH PTFE SHOULD HAVE THE FOLLOWING LABEL:

'WARNING: It is essential that tobacco products are kept well away from areas where they could be contaminated with PTFE dust. The smoking of tobacco products contaminated by PTFE can result in a temporary condition, characterised by influenza like symptoms, known as 'Polymer Fume Fever'. The symptoms do not ordinarily occur until several hours after the inhalation of the fumes and pass off within 36 to 48 hours even in the absence of treatment.

When heated above 260 Deg C PTFE will begin to degrade and the rate of degradation will increase with increasing temperature. The gases produced during degradation will vary according to temperature and other conditions but will invariably contain toxic and corrosive components, therefore good ventilation is essential.'

Product Name FLUON® PTFE Granular & Coagulated Dispersion Grades

Date: 08/2013

Revision: CLP01

Page: 4 of 5



16. OTHER INFORMATION

This data sheet was prepared in accordance with Regulation (EC) No. 1907/2006.

This product is not designed for special applications such as pharmaceutical or medical use.

For other technical information, contact the address in Section 1.

Fluon® and Aflas® grades are general industrial grades. It is the responsibility of the purchaser to check that the specification is appropriate for any individual application. Particular care is required for special applications such as pharmaceutical, medical device or food.

Not all grades are suitable for making finished materials and articles for use in contact with foodstuffs. For the latest position it is advisable to contact the AGC Chemicals Europe, Ltd. sales office. This product is not designed for special applications such as pharmaceutical or medical use.

Information in this publication is believed to be accurate and is given in good faith, but it is for the Customer to satisfy itself of the suitability for its own particular purpose. Accordingly, AGC Chemicals Europe, Ltd. gives no warranty as to the fitness of the Product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that such exclusion is prevented by law. Freedom under Patent, Copyright and Designs cannot be assumed

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GLOSSARY WEL: Workplace Exposure Limit (UK HSE EH40)

COM: The company aims to control exposure in its workplace to this limit TLV: The company aims to control exposure in its workplace to the ACGIH limit TLV-C: The company aims to control exposure in its workplace to the ACGIH Ceiling limit

MAK: The company aims to control exposure in its workplace to the German limit

Sk: Can be absorbed through skin

Sen: Capable of causing respiratory sensitisation

Bmgv: Biological monitoring guidance value (UK HSE EH40)

Product Name FLUON® PTFE Granular & Coagulated Dispersion Grades Revision: CLP01

Date: 08/2013

Page: 5 of 5

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