

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date: 30.03.2024

Version No: 2.00

Revision: 22.03.2023

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Trade name: **INOFLON® P402F, P412F, P405F, P502F, P402FF**

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

**Application of the substance / the preparation:** Additive for polymers

**Uses advised against:** No further relevant information available.

### 1.3 Details of the supplier of the safety data sheet

**Manufacturer/Supplier:**

Gujarat Fluorochemicals Limited  
12/A Dahej, GIDC, Industrial Estate  
Dahej, Gujarat 392130, India  
Telephone : +91-2641-618031(Admin)/ 618086-87(Security)  
Email : inoflon@gfl.co.in, contact@gfl.co.in

### 1.4 Emergency telephone number:

Emergency Telephone Number: +91-2643-618081 (SHE) / 618086-87(Security)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Classification according to Regulation (EC) No 1272/2008**

The product is not classified, according to the CLP regulation.

### 2.2 Label elements

**Labelling according to Regulation (EC) No 1272/2008** Void

**Hazard pictograms** Void

**Signal word** Void

**Hazard statements** Void

### 2.3 Other hazards

**Results of PBT and vPvB assessment**

**PBT:** Not determined.

**vPvB:** Not determined.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Description:		
CAS: 25322-68-3 EC number: 500-038-2	Polyethylene glycol	< 80.0%
CAS: 9011-17-0 EC number: 618-470-6	1-Propene, 1,1,2,3,3,3-hexafluoro-, polymer with 1,1-difluoroethene	> 15.0%
CAS: 14807-96-6 EC number: 238-877-9	talc	< 5.0%
CAS: 7631-86-9 EC number: 231-545-4	silicon dioxide, chemically prepared	< 1.0%

**Dangerous components:** Void

**Additional information:** For the wording of the listed hazard phrases refer to section 16.

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### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

**General information:**

Take affected persons out of danger area and lay down.

In case of irregular breathing or respiratory arrest provide artificial respiration.

**After inhalation:** Supply fresh air.

**After skin contact:** Generally the product does not irritate the skin.

**After eye contact:**

Rinse opened eye for several minutes under running water.

Remove contact lenses, if present and easy to do. Continue rinsing.

**After swallowing:** Rinse out mouth and then drink plenty of water.

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

No further relevant information available.

#### 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

**Suitable extinguishing agents:**

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Use fire extinguishing methods suitable to surrounding conditions.

**For safety reasons unsuitable extinguishing agents:** Water with full jet

#### 5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

In case of fire, the following can be released:

Carbon monoxide

Carbon dioxide

Hydrogen fluoride (HF)

#### 5.3 Advice for firefighters

**Protective equipment:** Wear self-contained respiratory protective device.

**Additional information**

Cool endangered receptacles with water spray.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

Wear protective clothing.

Avoid formation of dust.

Keep away from ignition sources.

**6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

#### 6.3 Methods and material for containment and cleaning up:

Pick up mechanically.

Dispose of the material collected according to regulations.

#### 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Prevent formation of dust.

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Any unavoidable deposit of dust must be regularly removed.  
Ensure good ventilation/exhaustion at the workplace.

**Information about fire and explosion protection:**

Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.

**7.2 Conditions for safe storage, including any incompatibilities****Storage:**

**Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.

**Information about storage in one common storage facility:** Store away from oxidising agents.

**Further information about storage conditions:** Store in cool, dry conditions in well sealed receptacles.

**7.3 Specific end use(s)** No further relevant information available.

## SECTION 8: Exposure controls/personal protection

**8.1 Control parameters****Ingredients with limit values that require monitoring at the workplace:****CAS: 14807-96-6 talc**

OEL (Ireland)	Long-term value: 10* 0.8** mg/m <sup>3</sup> **total inhalable **respirable dust
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**DNELs****CAS: 25322-68-3 Polyethylene glycol**

Oral	DNEL(long/systemic)	40 mg/kg bw/day (Consumer)
Dermal	DNEL(long/systemic)	40 mg/kg bw/day (Consumer)
		112 mg/kg bw/day (Workers (Industrial/Professional))
Inhalative	DNEL(long/systemic)	7.14 mg/m <sup>3</sup> (Consumer)
		40.2 mg/m <sup>3</sup> (Workers (Industrial/Professional))

**CAS: 14807-96-6 talc**

Dermal	DNEL(long/local)	2.27 mg/cm <sup>2</sup> (Consumer)
		4.54 mg/cm <sup>2</sup> (Workers (Industrial/Professional))
Inhalative	DNEL(long/systemic)	21.6 mg/kg bw/day (Consumer)
		43.2 mg/kg bw/day (Workers (Industrial/Professional))
	DNEL(long/local)	1.8 mg/m <sup>3</sup> (Consumer)
		3.6 mg/m <sup>3</sup> (Workers (Industrial/Professional))
	DNEL(long/systemic)	1.08 mg/m <sup>3</sup> (Consumer)
		2.16 mg/m <sup>3</sup> (Workers (Industrial/Professional))
	DNEL(short/local)	1.8 mg/m <sup>3</sup> (Consumer)
		3.6 mg/m <sup>3</sup> (Workers (Industrial/Professional))
	DNEL(short/systemic)	1.08 mg/m <sup>3</sup> (Consumer)
		2.16 mg/m <sup>3</sup> (Workers (Industrial/Professional))

**PNECs****CAS: 25322-68-3 Polyethylene glycol**

PNEC(aqua)	0.273 mg/L (freshwater)
	27.3 mg/L (marine water)
PNEC(sediment)	1030 mg/kg sedi. dw (freshwater)
	103 mg/kg sedi. dw (marine water)
PNEC(soil)	46.4 mg/kg soil dw (soil)

**CAS: 14807-96-6 talc**

PNEC(aqua)	597.97 mg/L (freshwater)
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PNEC(sediment)	141.26 mg/L (marine water)
	31.33 mg/kg sedi. dw (freshwater)
	3.13 mg/kg sedi. dw (marine water)

**8.2 Exposure controls**

**Appropriate engineering controls** No further data; see item 7.

**Individual protection measures, such as personal protective equipment**

**General protective and hygienic measures:**

Do not eat, drink, smoke or sniff while working.

Keep away from foodstuffs, beverages and feed.

The usual precautionary measures are to be adhered to when handling chemicals.

**Respiratory protection:** Use suitable respiratory protective device in case of insufficient ventilation.

**Hand protection**



Protective gloves

Only use chemical-protective gloves with CE-labelling of category III.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

**Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

**Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye/face protection**



Safety glasses

**Body protection:**



Protective work clothing

**Environmental exposure controls** No further relevant information available.

**SECTION 9: Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

**General Information**

**Physical state**

Solid

**Form:**

Solid

**Colour:**

White

**Odour:**

Characteristic

**Odour threshold:**

Not determined.

**Melting point/freezing point:**

Not determined.

**Boiling point or initial boiling point and boiling range**

Not applicable.

**Flammability**

Not determined.

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**Lower and upper explosion limit****Lower:** Not applicable.**Upper:** Not applicable.**Flash point:** Not applicable.**Ignition temperature:** 341 °C**Decomposition temperature:** Not determined.**pH:** Not applicable.**Viscosity:****Kinematic viscosity:** Not applicable.**Dynamic:** Not applicable.**Solubility****water:** Insoluble.

<b>Partition coefficient n-octanol/water (log value)</b>	CAS: 25322-68-3 Polyethylene glycol	-
	0.698 log Pow (30° C, calculated)	
	CAS: 14807-96-6 talc	-9.4
	log Pow (25° C, pH 7, QSAR)	

**Vapour pressure:** Not applicable.**Density and/or relative density****Density:** Not determined.**Relative density:** Not determined.**Vapour density:** Not applicable.**Relative gas density:** Not applicable.**Particle characteristics:** See item 3.**9.2 Other information****Explosive properties:** Product does not present an explosion hazard.**Oxidising properties:** No**Evaporation rate:** Not applicable.**SECTION 10: Stability and reactivity****10.1 Reactivity:** No further relevant information available.**10.2 Chemical stability:** No decomposition if used and stored according to specifications.**Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

**10.3 Possibility of hazardous reactions:** No dangerous reactions known.**10.4 Conditions to avoid:** Protect from humidity and water.**10.5 Incompatible materials:** Strong oxidizing agents**10.6 Hazardous decomposition products:** No dangerous decomposition products known.**SECTION 11: Toxicological information****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute toxicity:** Based on available data, the classification criteria are not met.**LD/LC50 values relevant for classification:****CAS: 25322-68-3 Polyethylene glycol**

Oral LD50 &gt; 2000 mg/kg (Rat) (OECD Guideline 423)

Dermal LD50 &gt; 2000 mg/kg (Rat) (OECD Guideline 402)

**CAS: 14807-96-6 talc**

Oral LD50 &gt; 5000 mg/kg (Rat) (OECD Guideline 423)

Dermal LD50 &gt; 2000 mg/kg (Rat) (OECD Guideline 402)

Inhalative LC50 (4h) &gt; 2.1 mg/L (Rat) (OECD Guideline 403, inhalation:aerosol)

**CAS: 7631-86-9 silicon dioxide, chemically prepared**

Oral LD50 &gt; 5000 mg/kg (Rat) (OECD Guideline 401)

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Dermal	LD50	> 2000 mg/kg (Rabbit) (OECD Guideline 402)
Inhalative	LC50 (4h)	> 5.01 mg/L (Rat) (OECD Guideline 436, inhalation:aerosol)

**Skin corrosion/irritation** Based on available data, the classification criteria are not met.**Serious eye damage/irritation** Based on available data, the classification criteria are not met.**Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.**Germ cell mutagenicity** Based on available data, the classification criteria are not met.**Carcinogenicity** Based on available data, the classification criteria are not met.**Reproductive toxicity** Based on available data, the classification criteria are not met.**STOT-single exposure** Based on available data, the classification criteria are not met.**STOT-repeated exposure** Based on available data, the classification criteria are not met.**Aspiration hazard** Based on available data, the classification criteria are not met.**11.2 Information on other hazards****Endocrine disrupting properties**

None of the ingredients is listed.

**SECTION 12: Ecological information****12.1 Toxicity****Aquatic toxicity:****CAS: 25322-68-3 Polyethylene glycol**

LC50 (96h) (static)	> 100 mg/L (Fish) (OECD Guideline 203, Poecilia reticulata) nominal
EC50 (96h) (static)	> 100 mg/L (Algae) (OECD Guideline 201, Desmodesmus subspicatus) Read-across to CAS: 112-34-5 nominal
EC50 (48h) (static)	2774 mg/L (Bacteria) (Chilomons paramaecium) Read-across to CAS: 112-34-5 nominal
NOEC (21d) (dynamic)	> 100 mg/L (Daphnia) (OECD Guideline 202, Daphnia magna) nominal
NOEC (28d) (dynamic)	17475 mg/L (Daphnia) (calculation, Daphnia magna) Read-across to CAS: 61791-12-6
NOEC (28d) (dynamic)	13671 mg/L (Fish) (ECOSAR calculation) Read-across to CAS: 112-34-5

**CAS: 14807-96-6 talc**

LC50 (48h)	36812.359 mg/L (Daphnia) (QSAR) nominal
LC50 (96h)	89581.016 mg/L (Fish) (QSAR) nominal
EC50 (96h)	7202.7 mg/L (Algae) (QSAR) nominal
NOEC (30d)	918 mg/L (Algae) (QSAR) nominal
	1459.798 mg/L (Daphnia) (QSAR) nominal
	5979.718 mg/L (Fish) (QSAR) nominal

**CAS: 7631-86-9 silicon dioxide, chemically prepared**

LL50 (96h)	> 1000 mg/L (Fish) (OECD Guideline 203, Oncorhynchus mykiss) nominal
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EL50 (48h) (static)	> 1000 mg/L (Daphnia) (OECD Guideline 202, Daphnia magna) nominal
EC50 (72h)	> 173.1 mg/L (Algae) (OECD Guideline 201, Desmodesmus subspicatus)
NOEC (21d)	68 mg/L (Daphnia) (OECD Guideline 211, Daphnia magna)

**12.2 Persistence and degradability**

CAS: 25322-68-3 Polyethylene glycol 74.9% (28d, OECD Guideline 301 D)

**12.3 Bioaccumulative potential** No further relevant information available.**Bioconcentration factor (BCF)**

CAS: 25322-68-3 Polyethylene glycol 3,2 BCF (calculated)

CAS: 14807-96-6 talc 3,16 BCF (QSAR)

CAS: 7361-86-9 silicon dioxide, chemically prepared 3,162 BCF (QSAR)

**12.4 Mobility in soil**

CAS: 25322-68-3 Polyethylene glycol 1.857 log Koc (25° C, OECD Guideline 121)

CAS: 14807-96-6 talc 1.503 log Koc (20° C, QSAR)

CAS: 7631-86-9 silicon dioxide, chemically prepared 1.34 log Koc (estimated)

**12.5 Results of PBT and vPvB assessment**

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

**12.6 Endocrine disrupting properties**

The product does not contain substances with endocrine disrupting properties.

**12.7 Other adverse effects** No further relevant information available.

### SECTION 13: Disposal considerations

**13.1 Waste treatment methods****Recommendation:** Must be specially treated adhering to official regulations.**Uncleaned packaging****Recommendation:** Disposal must be made according to official regulations.**Recommended cleansing agents:** Water if necessary, together with cleansing agents.

### SECTION 14: Transport information

**14.1 UN number or ID number**

ADR/RID/ADN, IMDG, IATA Void

**14.2 UN proper shipping name**

ADR/RID/ADN, IMDG, IATA Void

**14.3 Transport hazard class(es)**ADR/RID/ADN, IMDG, IATA  
Class Void**14.4 Packing group**

ADR/RID/ADN, IMDG, IATA Void

**14.5 Environmental hazards:** Not applicable.**14.6 Special precautions for user** Not applicable.**14.7 Maritime transport in bulk according to IMO instruments** Not applicable.**Transport/Additional information:** Not dangerous according to the above specifications.**UN "Model Regulation":** Void

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### SECTION 15: Regulatory information

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

##### Directive 2012/18/EU

**Named dangerous substances - ANNEX I** None of the ingredients is listed.

##### **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

##### **REGULATION (EU) 2019/1148**

##### **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

##### **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

##### **Regulation (EC) No 273/2004 on drug precursors**

None of the ingredients is listed.

##### **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

None of the ingredients is listed.

#### Chemical Inventories

Australia - AICS	Yes
Canada - DSL/NDSL	Yes
Europe - EINECS/ELINCS/NLP	No (vinylidene fluoride/ hexafluoropropene copolymer)
Japan - ENCS	Yes
Korea -KECI	Yes
New Zealand - NZIoC	Yes
Philippines - PICCS	Yes
USA - TSCA	Yes
Taiwan - TSCI	Yes
Mexico - INSQ	NO (polyethylene glycol; vinylidene fluoride/ hexafluoropropene copolymer)
Vietnam - NCI	Yes
Russia - ARIPS	Yes
Thailand - TECI	Yes

**15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### Abbreviations and acronyms:

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals  
 MARPOL: (from Marine Pollutant) International Convention for the Prevention of Marine Pollution from Ships  
 IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk  
 UN: United Nations (also UNO: United Nations Organization)  
 NOEC: No Observed Effect Concentration  
 OECD: Organisation for Economic Co-operation and Development  
 ASTM: American Society for Testing and Materials  
 WAF: Water Accommodated Fraction  
 ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)  
 IMDG: International Maritime Code for Dangerous Goods  
 IATA: International Air Transport Association  
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
 EINECS: European Inventory of Existing Commercial Chemical Substances

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ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
DNEL: Derived No-Effect Level (REACH)  
PNEC: Predicted No-Effect Concentration (REACH)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative

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