

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

Printing date: 25.09.2024

Version No: 2.0

Revision: 01.09.2024

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

### 1.1 Product identifier

Trade name: **INOLUB® P401F, P501F**

### 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: 9011-17-0 EC number: 618-470-6	1-Propene, 1,1,2,3,3,3-hexafluoro-, polymer with 1,1-difluoroethene	< 95.0%
CAS: 14807-96-6 EC number: 238-877-9	talc	< 10.0%
CAS: 7631-86-9 EC number: 231-545-4	silicon dioxide, chemically prepared	< 2.0%

**Dangerous components:** Void

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

## 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.

(Contd. on page 2)

## Safety data sheet

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**Trade name: INOLUB<sup>®</sup> P401F, P501F**

(Contd. of page 1)

**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.

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.

(Contd. on page 3)

**Safety data sheet**  
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(Contd. of page 2)

**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 oxidizing 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**

OEI (Ireland)	Long-term value: 10* 0.8** mg/m <sup>3</sup> *total inhalable **respirable dust
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**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.

(Contd. on page 4)

**Safety data sheet**  
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Printing date: 25.09.2024

Version No: 2.0

Revision: 01.09.2024

Trade name: INOLUB<sup>®</sup> P401F, P501F

(Contd. of page 3)

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### General Information

<b>Physical state</b>	Solid	
<b>Form:</b>	Solid	
<b>Colour:</b>	White	
<b>Odour:</b>	Characteristic	
<b>Odour threshold:</b>	Not determined.	
<b>Melting point/freezing point:</b>	Not determined.	
<b>Boiling point or initial boiling point and boiling range</b>	Not applicable.	
<b>Flammability</b>	Not determined.	
<b>Lower and upper explosion limit</b>		
<b>Lower:</b>	Not applicable.	
<b>Upper:</b>	Not applicable.	
<b>Flash point:</b>	Not applicable.	
<b>Ignition temperature:</b>	Not determined.	
<b>Decomposition temperature:</b>	Not determined.	
<b>pH</b>	Not applicable.	
<b>Viscosity:</b>		
<b>Kinematic viscosity</b>	Not applicable.	
<b>Dynamic:</b>	Not applicable.	
<b>Solubility</b>		
<b>water:</b>	Insoluble.	
<b>Partition coefficient n-octanol/water (log value)</b>	CAS: 14807-96-6 talc QSAR)	-9.4 log Pow (25° C, pH 7,
<b>Vapour pressure:</b>	Not applicable.	
<b>Density and/or relative density</b>		
<b>Density:</b>	Not determined.	
<b>Relative density</b>	Not determined.	
<b>Vapour density</b>	Not applicable.	
<b>Relative gas density</b>	Not applicable.	
<b>Particle characteristics</b>	See item 3.	
<b>9.2 Other information</b>		
<b>Explosive properties:</b>	Product does not present an explosion hazard.	
<b>Oxidising properties</b>	No	
<b>Evaporation rate</b>	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.

(Contd. on page 5)

**Safety data sheet**  
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Version No: 2.0

Revision: 01.09.2024

**Trade name: INOLUB® P401F, P501F**

(Contd. of page 4)

**LD/LC50 values relevant for classification:****CAS: 14807-96-6 talc**

Oral	LD50	> 5000 mg/kg (Rat) (OECD Guideline 423)
Dermal	LD50	> 2000 mg/kg (Rat) (OECD Guideline 402)
Inhalation	LC50 (4h)	> 2.1 mg/L (Rat) (OECD Guideline 403, inhalation: aerosol)

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

Oral	LD50	> 5000 mg/kg (Rat) (OECD Guideline 401)
Dermal	LD50	> 2000 mg/kg (Rabbit) (OECD Guideline 402)
Inhalation	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: 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
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** No further relevant information available.**12.3 Bioaccumulative potential** No further relevant information available.

(Contd. on page 6)

**Safety data sheet**  
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Revision: 01.09.2024

**Trade name: INOLUB® P401F, P501F**

(Contd. of page 5)

**Bioconcentration factor (BCF)**

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

CAS: 7631-86-9 silicon dioxide, chemically prepared 3,162 BCF (QSAR)

**12.4 Mobility in soil**

CAS: 14807-96-5 talc 1.503 log Koc (20° C, QSAR)

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

**12.5 Results of PBT and vPvB assessment** Not determined.

**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

**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.

(Contd. on page 7)

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according to 1907/2006/EC, Article 31

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(Contd. of page 6)

**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  
 ELINCS: European List of Notified Chemical Substances  
 CAS: Chemical Abstracts Service (division of the American Chemical Society)  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 PBT: Persistent, Bioaccumulative and Toxic  
 vPvB: very Persistent and very Bioaccumulative