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

Printing date: 30.09.2024 Version No: 2.00 Revision: 22.09.2024

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

1.1 Product identifier

Trade name: INOLUB®P402F, P412F, P405F, P502F

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.

(Contd. on page 2)

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

Printing date: 30.09.2024 Version No: 2.00 Revision: 22.09.2024

Trade name: INOLUB® P402F, P412F, P405F, P502F

(Contd. of page 1)

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_2, 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.

(Contd. on page 3)

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

Printing date: 30.09.2024 Version No: 2.00 Revision: 22.09.2024

Trade name: INOLUB® P402F, P412F, P405F, P502F

(Contd. of page 2)

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/m³ *total inhalable **respirable dust	
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/m3 (Consumer)
		40.2 mg/m3 (Workers (Industrial/Professional))
CAS: 14807-96-6 talc		
Dermal	DNEL(long/local)	2.27 mg/cm2 (Consumer)
		4.54 mg/cm2 (Workers (Industrial/Professional))
	DNEL(long/systemic)	21.6 mg/kg bw/day (Consumer)
		43.2 mg/kg bw/day (Workers (Industrial/Professional))
Inhalative	DNEL(long/local)	1.8 mg/m3 (Consumer)
		3.6 mg/m3 (Workers (Industrial/Professional))
	DNEL(long/systemic)	1.08 mg/m3 (Consumer)
		2.16 mg/m3 (Workers (Industrial/Professional))
	DNEL(short/local)	1.8 mg/m3 (Consumer)
		3.6 mg/m3 (Workers (Industrial/Professional))
	DNEL(short/systemic)	1.08 mg/m3 (Consumer)
		2.16 mg/m3 (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)	

(Contd. on page 4)

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

Printing date: 30.09.2024 Version No: 2.00 Revision: 22.09.2024

Trade name: INOLUB® P402F, P412F, P405F, P502F

(Contd. of page 3)

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 cannot 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.

(Contd. on page 5)

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

Printing date: 30.09.2024 Version No: 2.00 Revision: 22.09.2024

Trade name: INOLUB® P402F, P412F, P405F, P502F

(Contd. of page 4)

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.
Partition coefficient n-octanol/water (log value)	CAS: 25322-68-3 Polyehtylene glycol- 0.698 log Pow (30º C, calculated) CAS: 14807-96-6 talc: -9.4 log Pow (25º 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	> 2000 mg/kg (Rat) (OECD Guideline 423)
Dermal	LD50	> 2000 mg/kg (Rat) (OECD Guideline 402)
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)

(Contd. on page 6)

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

Printing date: 30.09.2024 Version No: 2.00 Revision: 22.09.2024

Trade name: INOLUB® P402F, P412F, P405F, P502F

(Contd. of page 5)

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: 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
	> 100 mg/L (Daphnia) (OECD Guideline 202, Daphnia magna) nominal
NOEC (21d) (dynamic)	17475 mg/L (Daphnia) (calculation, Daphina 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

(Contd. on page 7)

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

Printing date: 30.09.2024 Version No: 2.00 Revision: 22.09.2024

Trade name: INOLUB® P402F, P412F, P405F, P502F

(Contd. of page 6)

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 (25º C, OECD Guideline 121)
CAS: 14807-96-6 talc 1.503 log Koc (20º 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

(Contd. on page 8)

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

Printing date: 30.09.2024 Version No: 2.00 Revision: 22.09.2024

Trade name: INOLUB® P402F, P412F, P405F, P502F

(Contd. of page 7)

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
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

(Contd. on page 9)

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

Printing date: 30.09.2024 Version No: 2.00 Revision: 22.09.2024

Trade name: INOLUB® P402F, P412F, P405F, P502F

(Contd. of page 8)

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