

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date: 10.03.2023

Version No: 1.00

Revision: 09.03.2023

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

1.1 Product identifier

Trade name:

INOFロン® Granular Modified PTFE**Grades:****M665, M670, M675, M690, M695, M280, M290, M295****CAS Number:**

9002-84-0

EC number:

618-337-2

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

Application of the substance / the preparation: Synthetic Resin, Fluoropolymer for industrial processing**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 substance 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

Finished product is inert under normal condition. May cause thermal burns at higher temperature

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

SECTION 3: Composition/information on ingredients

3.1 Substances

CAS No. Description

CAS: 9002-84-0 Polytetrafluoroethylene 100%

Identification number(s)**EC number:** 618-337-2

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SECTION 4: First aid measures

4.1 Description of first aid measures

General information:

No special measures required.
If symptoms persist consult doctor.

After inhalation:

Supply fresh air.
Seek immediate medical advice.

After skin contact:

Generally the product does not irritate the skin.
Immediately wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.

After eye contact:

Remove contact lenses, if present and easy to do. Continue rinsing.
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
DO NOT ATTEMPT TO REMOVE MOLTEN MATERIAL

After swallowing: Rinse Mouth. First aid is generally not anticipated.

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

Treat symptomatically.

For polytetrafluoroethylene (PTFE) and other related polyfluorinated polymers: Pyrolysis products of this material have been known to produce an influenza-like syndrome in man, lasting 24-48 hours

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents:

CO₂, 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

Do not direct a solid stream of water or foam into burning molten material; this may cause spattering and spread the fire

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)

Low molecular weight fluoropolymers and Particulates

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 product to reach sewage system or any water course.

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6.3 Methods and material for containment and cleaning up:

Pick up mechanically.

Dispose of the material collected according to regulations.

Fluoropolymers spilled during handling should be cleaned up immediately and appropriate measures should be taken to prevent the creation of a slippery surface. It is advisable that some sort of anti-slip flooring and steps should be provided in areas where fluoropolymer resins are regularly handled. Slippery surfaces in walking and working areas pose an increased accident risk.

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.

Do not breathe thermal decomposition products. Avoid skin & eye contact with hot material. For industrial or professional use only. Store work clothes separately from other clothing, food and tobacco products. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. No smoking: Smoking while using this product can result in contamination of the tobacco and/or smoke and lead to the formation of hazardous decomposition product

Any unavoidable deposit of dust must be regularly removed.

Ensure good ventilation/exhaustion at the workplace.

Information about fire and explosion protection:

Dust can combine with air to form an explosive mixture.

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, heat

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:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

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:

Not necessary if room is well-ventilated.

Use suitable respiratory protective device in case of insufficient ventilation.



During heating: avoid breathing of vapors. At higher processing temperatures, if there is a potential for exposure from an uncontrolled release, exposure levels are not known, or under any other circumstances where air-purifying respirators may not provide adequate protection, apply a positive pressure supplied-air respirator

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Hand protection



Protective gloves

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

- PVC gloves
- Rubber gloves
- Nitrile rubber, NBR
- Butyl rubber, BR
- Fluorocarbon rubber (Viton)

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.

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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.

Eyeface protection



Tightly sealed goggles

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:	Granulate
Colour:	White
Odour:	Odourless
Odour threshold:	Not available
Melting point/freezing point:	327 - 345 °C
Boiling point or initial boiling point and boiling range	Not applicable.
Flammability	Product is not flammable.
Lower and upper explosion limit	
Lower:	Not applicable.
Upper:	Not applicable.
Flash point:	Not applicable.
Ignition temperature:	Not determined.
Decomposition temperature:	Not determined.
pH	Not applicable.
Viscosity:	
Kinematic viscosity	Not applicable.
Dynamic:	Not applicable.

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Solubility	
water:	Insoluble. Not miscible or difficult to mix.
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure:	Not applicable.
Density and/or relative density	
Density at 23 °C:	2.14 - 2.2 g/cm ³
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.

Stable and hazardous polymerization will not occur

10.3 Possibility of hazardous reactions Hazardous polymerization will not occur

10.4 Conditions to avoid No further relevant information available.

10.5 Incompatible materials:

Reacts with strong oxidizing agents : F₂, OF₂, ClF₃

Reducing Agent: Elemental Sodium and Potassium

Metal powders, like aluminum and magnesium, cause PTFE to combust at high temperatures

10.6 Hazardous decomposition products:

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

Low molecular weight fluoropolymers and Particulates

Overheated or burnt PTFE releases hydrogen fluoride (a highly irritating and corrosive gas) and small amounts of carbonyl fluoride (highly toxic), CO₂, other toxic gases

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.

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 Substance is not listed.

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SECTION 12: Ecological information

12.1 Toxicity**Aquatic toxicity:** No further relevant information available.**12.2 Persistence and degradability** No further relevant information available.**12.3 Bioaccumulative potential** No further relevant information available.**12.4 Mobility in soil** No further relevant information available.**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.

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** Substance is not listed.**DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

Substance is not listed.

REGULATION (EU) 2019/1148**Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

Substance is not listed.

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Annex II - REPORTABLE EXPLOSIVES PRECURSORS Substance is not listed.**Regulation (EC) No 273/2004 on drug precursors** Substance is not listed.**Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

Substance is not listed.

Chemical Inventories:

EU - Polymer Exemption

Japan - ENCS

Australia - AICS

Canada - DSL

China - IECSC

Korea - ECL

New Zealand - NZIoC

Philippines - PICCS

Taiwan - TCSI

USA - TSCA

Thailand - TECI

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

CAS: Chemical Abstracts Service (division of the American Chemical Society)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative