# SAFETY DATA SHEET

**Creation Date:** 07-October-2022 **Revision Date:** 07-Dec-2024 **Revision Number:02**

## 1.IDENTIFICATION

**Product Name** PFA Fluoroplastic Resin

**Synonyms** INOFLON® PFA 8103, INOFLON® PFA 8105, INOFLON® PFA 8115, INOFLON® PFA 8125

**Recommended Use** Coating application

**Uses Advised Against** No information available

**Details of the Supplier of the Safety Data Sheet**

**Company**
Gujarat Fluorochemicals Ltd.
12/A Dahej Industrial Estate, GIDC, India

| | |
|---|---|
| Telephone | +91-2641-618003 |
| Fax | +91-2641-618012 |
| E-mail address | inoflon@gfl.co.in |
| Website | www.inoflon.com |

**Emergency Telephone Number**

| | |
|---|---|
| **Company Phone Number** | +91-2641-618003 |
| **Emergency telephone number** | +91-2641-618080-81 |

## 2.Hazard(s) Identification

**GHS classification in accordance with 29 CFR 1910.1200**

Not a hazardous substance or mixture.

**GHS Label elements**

Not a hazardous substance or mixture.

**Hazards not otherwise classified (HNOC)**

The thermal decomposition vapors of fluorinated plastics may cause polymer fume fever with flu-like symptoms in humans, especially when smoking contaminated tobacco.

## 3. Composition/information on Ingredients

| Chemical name | CAS-No | Weight % |
|---|---|---|
| Tetrafluoroethylene/ perfluoro (alkyl vinyl ether) polymer | 26655-00-5 | 100 |

## 4. First aid measures

**First-aid measures**

| | |
|---|---|
| **Eye contact** | Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye. If irritation still persists, call a poison control center or doctor for treatment advice. |
| **Skin contact** | Wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes. If skin irritation or rash develops, get medical attention. |
| **Ingestion** | If swallowed, DO NOT induce vomiting. Get medical attention if irritation develop or persists. |
| **Inhalation** | Remove victim to fresh air and keep at rest in a position comfortable for breathing. If breathing is difficult, give oxygen. If signs/symptoms continue, get medical attention. |

**Most Important Symptoms and Effects, Both Acute and Delayed**

**Most Important Symptoms and Effects** POLYMER FUME FEVER

The most important known symptoms and effects are described in labelling (See section 2) and/or in section 11.

**Indication of immediate medical attention and special treatment needed**

**Notes to physician** Treat symptomatically and supportively.

## 5. Fire-fighting measures

**Extinguishing media**

**Suitable extinguishing media** $CO_2$, Regular dry chemical, Alcohol-resistant foam, Water spray

**Unsuitable extinguishing media** None Known. Choice of extinguishing media should take into account surrounding areas.

**Special hazards arising from the substance or mixture**

| | |
|---|---|
| **Special Hazard** | Thermal decomposition can lead to release of toxic/irritating gases and vapor. Exposure to combustion products may be a hazard to health. |
| **Hazardous combustion products** | Hydrogen fluoride, Carbonyl fluoride, potentially toxic fluorinated compound, aerosolized particulates, Carbon oxides |

**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand (SCBA), MSHA/NIOSH (approved or equivalent) and full protective gear. Keep storage containers cool with water spray. Move container from fire area if it can be done without risk. Cool containers with water spray until well after the fire is out. Do not scatter spilled material with high-pressure water streams. Stay away from the ends of tanks. Apply water from a protected location or from a safe distance. Avoid inhalation of material or combustion by-products.

**NFPA Ratings**

| Health | Flammability | Instability | Physical/Hazard |
|---|---|---|---|
| 0 | 1 | 0 | N/A |

Hazard Scale: 0=Minimal 1=Slight 2=Moderate 3=Serious 4=Severe

## 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures**

**Personal Precautions** Wear personal protective clothing and equipment, see Section 8. Avoid contact with skin, eyes and clothing. Keep unprotected persons away. Do not eat, drink or smoke while using this product. Stop the spill, if possible, Remove all sources of ignition. Contain spilled material by diking or using inert absorbent. Transfer to a disposal or recovery container. Avoid release to the environment.

**Environmental precautions** Prevent from reaching lakes, streams, ponds and sewer drains. Dike to confine spill and absorb with an absorbent such as clay, sand or soil. Local authorities should be advised if significant spillages cannot be contained.

**Methods and material for containment and cleaning up**

**Methods for containment** Sweep up or vacuum up spillage and collect in suitable container for disposal. Place in a suitable, labelled container for waste disposal. In case of large spill, dike if needed. Keep in suitable, closed containers for disposal. Wash area and prevent runoff into drains. Local authorities should be advised if significant spillages cannot be contained.

**Reference to other sections** Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.

## 7. Handling and Storage

**Precautions for safe handling**

**Handling** Wear suitable personal Protective Equipment when handling and spraying. Avoid contact with skin and eyes. Minimize dry sweeping to avoid generation of dust clouds. Minimize airborne dust and eliminate all ignition sources. Do not breathe dust/fumes/gas/mist/vapours/spray. Ensure adequate ventilation. While using do not eat drink or smoke. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using toilet or applying cosmetics. Empty containers may contain hazardous residues. Handle in accordance with good industrial hygiene and safety practice.

**Conditions for safe storage, including any incompatibilities**

**Storage** Store in original container. Keep containers tightly closed in a cool, well-ventilated place. Store locked up. Do not store material near food, feed or drinking water. Keep away from heat and sources of ignition. Store away from incompatible material.

**Incompatible materials** Avoid storage with strong oxidizing agents

## 8. Exposure Controls/Personal Protection

### Exposure Guidelines

| Component | CAS Number | ACGIH | OSHA PEL | NIOSH IDLH |
|---|---|---|---|---|
| tetrafluoroethylene/ perfluoro (alkyl vinyl ether) polymer | 26655-00-5 | None | None | None |

*Legend*
*ACGIH - American Conference of Governmental Industrial Hygienists*
*OSHA - Occupational Safety and Health Administration*
*NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health*
*TEEL: Temporary Emergency Exposure Limits*

**Engineering controls** Ensure adequate ventilation, especially in confined areas. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

**Personal protective equipment**

**Eye/Face Protection** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European StandardEN166.

**Skin and body protection** Wear impervious protective clothing, including boots, gloves, apron or coveralls, as appropriate, to prevent skin exposure. Wash hands before breaks and at the end of workday. Skin should be washed after contact.

**Respiratory protection** General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

**Hygiene Measure** Do not eat, drink or smoke when using this product. Keep away from food, drink and animal feeding stuffs. Wash hands before breaks and immediately after handling the product. Remove and wash contaminated clothing before re-use. Handle in accordance with good industrial hygiene and safety practice.

## 9. Physical and Chemical Properties

### Information on basic physical and chemical properties

| | |
|---|---|
| **Appearance** | Solid |
| **Physical state** | Solid |
| **Odor** | No information available |
| **Color** | No information available |
| **odor threshold** | No information available. |

| Property | VALUES | Remarks/ Method |
|---|---|---|
| **pH** | No information available | |
| **Melting point/freezing point** | 305-315 °C | |
| **Boiling Point/Range** | No information available | |
| **Flash Point** | Not Applicable | |
| **flammability (solid, gas)** | No information available | |
| **Flammability or Explosive limit** | | |
| **Upper** | No information available | |
| **Lower** | No information available | |
| **Relative density (Water = 1)** | 2.14-2.17 | |
| **Vapor density (Air = 1)** | No information available | |
| **Vapor pressure** | No information available | |
| **Water solubility** | Immiscible | |
| **Solubility in Other Solvents** | No information available | |
| **Partition coefficient: n-octanol/water** | No information available | |
| **Autoignition temperature** | No information available | |
| **decomposition temperature** | No information available | |
| **Viscosity** | Not Applicable | |
| **Oxidizing properties** | No information available | |
| **Explosive properties** | No information available | |
| **Volatile component** | No information available | |

**OTHER INFORMATION**

| | |
|---|---|
| **Surface tension** | No information available |
| **Softening point** | No information available |
| **Voc g/L** | No information available |

## 10. Stability and Reactivity

### Reactivity

Stable under normal temperatures and pressures.

### Chemical stability

Stable under recommended storage conditions. See Section (7)

### Possibility of hazardous reaction

Can react with strong oxidizing agents.
Hazardous decomposition products will be formed at elevated temperatures.

### Conditions to avoid

Wear suitable personal Protective Equipment when handling and spraying. Avoid contact with skin and eyes. Do not breathe dust. Ensure adequate ventilation. While using do not eat drink or smoke. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using toilet or applying cosmetics.

### Incompatible Materials

Oxidizing agents.

## Hazardous decomposition products

Thermal decomposition can lead to release of toxic/irritating gases and vapors. Keep product and empty container away from heat and sources of ignition. Hazardous decomposition products formed under fire conditions:
Hydrofluoric acid, Carbonyl fluoride, Carbon dioxide, Carbon monoxide

# 11. Toxicological Information

## Information on Toxicological Effects

### Acute Toxicity

Component Information

Tetrafluoroethylene/Perfluoro(alkyl vinylether) polymer

| | | |
|---|---|---|
| **Oral** | : | Not available |
| **Skin and eyes** | : | Not available |
| **Inhalation** | : | Not available |

**Product Information**

| | |
|---|---|
| **Oral LD 50** | Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg |
| **Dermal LD 50** | Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg |
| **Inhalation LD 50** | Based on ATE data, the classification criteria are not met. ATE > 5 mg/l |

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Irritation** Not classified based on available information

**Sensitization** Not classified based on available information

**Carcinogenicity**

| Component | CAS number | IARC | NTP | OSHA |
|---|---|---|---|---|
| Tetrafluoroethylene/ perfluoro (alkyl vinyl ether) polymer | 26655-00-5 | Not Listed | Not Listed | Not Listed |

| | |
|---|---|
| **Mutagenic effect** | Not classified based on available information |
| **Developmental effect** | Not classified based on available information |
| **Tetragonality** | Not classified based on available information |
| **STOT - Single Exposure** | None Known |
| **STOT - repeated exposure** | None known |
| **Aspiration hazard** | No information available |
| **Symptoms/effects, both acute and delayed** | No information available |
| **Endocrine Disruptor Information** | No information available |
| **Other adverse effect** | No information available |

## 12. Ecological Information

### Ecotoxicity
No data available.

**Component Toxicity**

| Component | CAS number | LC50 – Fish | EC50 – Daphnia | EC50-Alga |
|---|---|---|---|---|
| Tetrafluoroethylene/ perfluoro (alkyl vinyl ether) polymer | 26655-00-5 | No data available | No data available | No data available |

### Persistence and Degradability

No information available for product.

### Bioaccumulative Potential

No information available.

### Other Adverse Effects

No information available.

## 13. Disposal Considerations

**Waste Treatment Methods**

**Waste Disposal Method** Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification. Dispose in accordance with local regulations.

**Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.

## 14. Transport Information

**DOT (US)** Not regulated as a dangerous goods

**IMDG/IMO** Not regulated as a dangerous goods

**IATA/ICAO** Not regulated as a dangerous goods

## 15. Regulatory Information

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

**U.S. Federal Regulations**

**SARA 311/312 Hazard Categories**

| | |
|---|---|
| Acute Health Hazard | No |
| Chronic Health Hazard | No |
| Fire Hazard | No |
| Sudden Release of Pressure Hazard | No |
| Reactive Hazard | No |

**CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ

**SARA 302 Extremely Hazardous Substances Threshold Planning Quantity**

This material does not contain any components with a section 302 EHS TPQ.

**SARA 304 Extremely Hazardous Substances Reportable Quantity**

This material does not contain any components with a section 304 EHS TPQ.

**SARA 313**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**EPCRA section 313**

This product contains the following EPCRA section 313 chemicals subject to the reporting requirements of section 313 of Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372).

Due to the non-availability of reference standards, testing for all TRI listed PFAS substances in this product is not possible. At present, we test 19 specific PFAS compounds from the list with a Limit of Quantification (LOQ) of 0.1 µg/kg for individual substances. Out of the 19 PFAS compounds tested, following were detected above the LOQ.

| CAS No. | Chemical Name | Concentration |
|---|---|---|
| | | |

No entry in above table indicates no substances were detected above the LOQ of 0.1 µg/kg.

**US State Regulations**

**CALIFORNIA PROPOSITION 65**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**State Regulations**

| Component | CAS Number | Massachusetts | New Jersey | Pennsylvania |
|---|---|---|---|---|
| Tetrafluoroethylene/ perfluoro (alkyl vinyl ether) polymer | 26655-00-5 | - | - | - |

**International Inventories**

| | |
|---|---|
| **TSCA** | Y |
| **EINECS/ELINCS** | N |
| **DSL** | Y |
| **NDSL** | N |
| **PICCS** | Y |
| **ENCS** | Y |
| **IECSC** | Y |
| **AICS** | Y |
| **KECL** | Y |

**Legend**

Y : All ingredients are on the inventory

N : Not determined or one or more ingredients are not on the inventory and are not exempt from listing.

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List
**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances
**ENCS** - Japan Existing and New Chemical Substances
**IECSC** - China Inventory of Existing Chemical Substances
**AICS** - Australian Inventory of Chemical Substances
**KECL** - Korean Existing and Evaluated Chemical Substances

## 16. Other Information

| | |
|---|---|
| **Preparation Date** | 07-October-2022 |
| **Revision date** | 07-December-2024 |
| **Revision Summary** | 02 |

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**