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1.IDENTIFICATION

Product Name Aqueous Dispersion PFA
Grades PFA8900EX
Recommended Use Coating
Uses Advised Against No further relevant information available

Details of the Supplier of the Safety Data Sheet

Company

Gujarat Fluorochemicals Ltd.
12/A Dahej, GIDC, Industrial Estate
Dahej, Gujarat 392130, India

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Emergency Telephone Number

Company Phone Number +91-2641-618031/618086-87 (Security)
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2.Hazard(s) Identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin Corrosion/Irritation Category 2
Serious Eye Damage/Eye Irritation Category 1

Label elements

Symbol(s)



Signal word Danger

Hazard Statements

Causes Skin Irritation
Causes serious eye damage

Precautionary Statements

Prevention

P280 Wear protective gloves/protective clothing/eye protection/face protection.

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Response

P332+P313 If skin irritation occurs: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/physician.

Storage

P405 Store locked up

P403+P235 Store in a well-ventilated place. Keep container tightly closed

Prevention

P501 Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Repeated exposure potentially causes skin dryness and cracking

3. Composition/information on Ingredients

Chemical name	CAS-No	Weight %
Poly (tetrafluoroethylene-co-perfluoro (propylvinyl ether))	26655-00-5	50-65
Water	7732-18-5	35-70
Poly(oxy-1,2-ethanediyl), alpha- [3,5-dimethyl-1-(2-methylpropyl)hexyl]-.omega.-hydroxy-	60828-78-6	1-5

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. Call a poison control center or doctor for treatment advice.

Skin contact

Immediately wash skin with soap and water. If skin irritation or rash develops, get medical attention.

Ingestion

Rinse mouth thoroughly. Do not induce vomiting. If vomiting occurs ensure patient can breathe. Get medical attention.

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 immediate medical attention.

Most Important Symptoms and Effects, Both Acute and Delayed

Most Important Symptoms and Effects

Eye contact may provoke the following symptoms: Pain, tearing, swelling, redness, or temporary visual impairment. Inhalation of decomposition products in high concentration may cause shortness of breath (lung-oedema). The thermal decomposition vapours of fluorinated plastics may cause polymer fume fever with flu-like symptoms in humans.

Indication of immediate medical attention and special treatment needed

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Notes to physician Treat symptomatically and supportively.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Unsuitable extinguishing media Water with full jet.

Special hazards arising from the substance or mixture

Special Hazard Thermal decomposition can lead to release of toxic/corrosive gases and vapor. Contamination of heated / molten liquid with water may cause violent steam explosion, with scattering of hot contents.

Hazardous combustion products Oxides of carbon, hydrogen fluoride

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. Avoid inhalation of material or combustion by-products.

NFPA Ratings

Health	Flammability	Instability	Physical/Hazard
1	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. Take precautionary measures against static discharges. Use spark-proof tools and explosion-proof equipment. Keep people away from and upwind of spill/leak. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low area. Use respiratory protective device against the effects of fumes/dust/aerosol. 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. Local authorities should be advised if significant spillages cannot be contained.

Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Absorb spill with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Place in a suitable, labelled container for waste disposal. In case of large spill, dike if needed. Dike far ahead of liquid spill for later disposal. 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.

Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal

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Reference to other sections 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. Do not breathe dust/fume/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
Poly (tetrafluoroethylene-co-perfluoro (propylvinyl ether))	26655-00-5	None	None	None
Water	7732-18-5	None	None	None
Poly(oxy-1,2-ethanediyl), alpha-[3,5-dimethyl-1-(2-methylpropyl)hexyl]-.omega.-hydroxy-	60828-78-6	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

Engineering controls

Ensure adequate ventilation, especially in confined areas.

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 Standard EN166.

Skin and body protection

Wear impervious protective clothing, including boots, gloves, apron or coveralls, as appropriate, to prevent skin exposure.

Respiratory protection

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirators if exposure limits are exceeded or if irritation or other symptoms are experienced.

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.

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9. Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance	Liquid
Physical state	Dispersion
Odor	Characteristic
Color	White
Odor threshold	No information available.
Molecular Weight	No information available

<u>Property</u>	<u>VALUES</u>	<u>Remarks/ Method</u>
pH	9-11	
Melting point/freezing point	0°C, Freezing Point	
Boiling Point/Range	100°C (water)	
Flash Point	Not Applicable	
Flammability (solid, gas)	No information available	
Flammability or Explosive limit		
Upper	No information available	
Lower	No information available	
Density at 20 °C:	1.5 g/cm ³ (Water = 1)	
Vapor density (Air = 1)	No information available	
Vapor pressure	No information available	
Water solubility	Insoluble	
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	
Kinematic Viscosity	5 - 30 mm ² /s	
Oxidizing properties	No information available	
Explosive properties	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

Hazardous polymerization will not occur.

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Conditions to avoid

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

Reacts with Strong oxidizing agents: F2, OF2, ClF3
 Reducing Agent: Elemental Sodium and Potassium

Hazardous decomposition products

Thermal decomposition can lead to release of toxic/corrosive gases and vapors.
 Hazardous decomposition products formed under fire conditions:
 Oxides of carbon, hydrogen fluoride

11. Toxicological Information

Information on Toxicological Effects

Acute Toxicity

Component Information

(CAS: 26655-00-5)

Oral : Not available
 Skin and eyes : Not available
 Inhalation : Not available

(CAS: 7732-18-5)

Oral : >90 ml/kg
 Skin and eyes : Not available
 Inhalation : Not available

(CAS: 60828-78-6)

Oral : 5650 mg/kg
 Skin and eyes : LD50 (Dermal) - 4780 mg/kg
 Eye Irritation(rabbit) - 5 mg - SEVERE
 Eye Irritation(rabbit) - 100 mg - SEVERE
 Skin Irritation(rabbit) - 500 (open) - Mild
 Inhalation : Not Available

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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	Causes skin irritation, serious eye damage
Sensitization	No information available
Mutagenic effect	No information available
Developmental effect	No information available
Tetragonality	No information available
STOT - Single Exposure	None Known
STOT - repeated exposure	None known
Aspiration hazard	No information available
Symptoms/effects, both acute and delayed	Skin irritation, serious eye damage
Endocrine Disruptor Information	No information available
Other adverse effect	No information available

12. Ecological Information

Ecotoxicity

No information available for product.

Component Toxicity

Component	CAS number	LC50 - Fish	EC50 - Daphnia	EC50 - Alga
(Poly (tetrafluoroethylene-co perfluoro (propylvinyl ether))	26655-00-5	Not available	Not available	Not available
Poly(oxy-1,2-ethanediyl), alpha- [3,5-dimethyl-1-(2-methylpropyl)hexyl]-.omega.-hydroxy-	60828-78-6	Not available	Not available	Not 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.

Contaminated packaging

Empty containers should be taken for local recycling, recovery or waste disposal.

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14. Transport Information

14.1 UN Number or ID Number

DOT/IMDG/IMO/IATA/ICAO Not Regulated

14.2 UN proper shipping name

DOT/IMDG/IMO/IATA/ICAO Not applicable

14.3 Transport hazard class(es)

DOT/IMDG/IMO/IATA/ICAO Not applicable

14.4 Packing Group

DOT/IMDG/IMO/IATA/ICAO Not applicable

15. Regulatory Information

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

U.S. Federal Regulations

TSCA 12(b) Not Applicable

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

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. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65)

None Reported

US. EPA CERCLA HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES (40 CFR 302.4)

None Reported

US. EPA Resource Conservation and Recovery Act (RCRA) (40 CFR 261)

None Reported

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Clean Air Act

None Reported

Clean Water Act 311(b)(2)/307(a)

None Reported

State Regulations

Component	CAS Number	Minnesota	New Jersey	Pennsylvania
Poly (tetrafluoroethylene-co-perfluoro(propylvinyl ether))	26655-00-5	-	X	X
Poly(oxy-1,2-ethanediyl), alpha- [3,5-dimethyl-1-(2-methylpropyl)hexyl]-.omega.-hydroxy-	60828-78-6	X	X	X

U.S. CALIFORNIA PROPOSITION 65

None Reported

International Inventories

TSCA	Listed
EINECS/ELINCS	Not Listed
DSL	Listed
NZIoC	Listed
PICCS	Listed
ENCS	Listed
IENCS	Listed
AICIS	Listed
KECL	Listed

Legend

x: Listed

- : Not Listed

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDL - 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

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Disclaimer



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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