SAFETY DATA SHEET

GUJARAT FLUOROCHEMICALS
VALUE THROUGH GREEN CHEMISTRY
CIN : L24304GJ2018PLC105479

Creation Date 04-March-2021 **Revision Date** 11-Jan-2025 **Revision Number:03**

1.IDENTIFICATION

Product Name **Aqueous Dispersion PTFE**

Grades AD9000EX, AD9100EX, AD9200EX, AD9300EX, AD9400EX, AD9360EX

Recommended Use Coating

Uses Advised Against No further relevant information available

Details of the Supplier of the Safety Data Sheet

Company
Gujrat Fluorochemicals Ltd.
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Emergency Telephone Number

Company Phone Number	+91-2641-618031/618086-87 (Security)
Emergency telephone number	+91-2641-618080-81 (SHE)/ 618086-87 (Security)

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
P264 Wash hands/face thoroughly after handling
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P321 Specific treatment (see … on this label)
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
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 %
Polytetrafluoroethylene	9002-84-0	55-65
Water	7732-18-5	35-40
Trimethylnonyl ether ethoxylated	60828-78-6	1-10

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 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 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 The most important known symptoms and effects are described in the 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, foam, Water spray

Unsuitable extinguishing media The product contains a substantial proportion of water, therefore there are no restrictions on the type of extinguishing media which may be used. 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/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. 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
2	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. 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 Stop leak if you can do it without risk. Absorb spill with inert material (e.g.vermiculite, dry sand or earth). 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.

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

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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, tetrafluoroethylene, hexafluoroethylene, perfluoroisobutylene, carbonyl fluoride and hydrogen fluoride.

8. Exposure Controls/Personal Protection

Exposure Guidelines

Component	CAS Number	ACGIH	OSHA PEL	NIOSH IDLH
Polytetrafluoroethylene	9002-84-0	None	None	None
Water	7732-18-5	None	None	None
Trimethylnonyl ether ethoxylated	60828-78-6	None	None	None

Component	CAS Number	TEEL 1	TEEL 2	TEEL 3
Polytetrafluoroethylene	9002-84-0	20 mg/m^3	130 mg/m^3	790 mg/m^3

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 byOSHA'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.
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.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

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

Property	**VALUES**	**Remarks/ Method**
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	
Specific gravity (Water = 1)	1.2 - 1.6 g/cm³ (Water = 1)	
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	10-100cSt	
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.

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, CIF3
Reducing Agent: Elemental Sodium and Pottasium
Metal powders, like aluminum and Magnesium, causes PTFE to combust at high temperatures

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

(polytetrafluoroethylene)

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

(Water)

Oral	:	>90 mL/kg
Skin and eyes	:	Not available

Inhalation : Not available

(Trimethylnonyl ether ethoxylated)

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

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 Causes skin irritation, serious eye damage
Sensitization No information available
Carcinogenicity

Component	CAS number	IARC	NTP	OSHA
Polytetrafluoroethylene	9002-84-0	Not Listed	Not Listed	Not Listed
Trimethyl nonyl ether ethoxylated	60828-78-6	Not Listed	Not Listed	Not Listed

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
Polytetrafluoroethylene	9002-84-0	Not available	Not available	Not available
Trimethyl nonyl ether ethoxylated	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.

Component	CAS number	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Polytetrafluoroethylene	9002-84-0	None	None	None	None
Trimethyl nonyl ether ethoxylated	60828-78-6	None	None	None	None

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 chemical 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 25 parts per billion (ppb) for individual substances. Out of the 19 PFAS compounds tested, following substances were detected below the specified concentration.

CAS No.	Chemical Name	Concentration

No entry in above table indicates no substances were detected above the LOQ of 25 ppb.

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

Clean Air Act

None Reported

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

None Reported

State Regulations

US. CALIFORNIA PROPOSITION 65

None Reported

State Regulations

Component	CAS Number	Minnesota	New Jersey	Pennsylvania	Illinois	Rhode Island
Polytetrafluoroethylene	9002-84-0	-	X	X	-	X

Trimethyl nonyl ether ethoxylated	60828-78-6	X	X	X	-	-

International Inventories

TSCA	Listed
EINECS/ELINCS	Not Listed (Polytetrafluoroethylene)
DSL	Listed
NDSL	Not Listed (Polytetrafluoroethylene)
PICCS	Listed
ENCS	Listed
IENCS	Listed
AICS	Listed
KECL	Listed

Legend

x: Listed

- : Not Listed

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	04-March-2021
Revision date	29-May-2023
Revision Summary	02

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at thedate 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 informationrelates only to the specific material designated and may not be valid for such material used in combination with any othermaterials or in any process, unless specified in the text.

End of Safety Data Sheet