

### **PTFE Additive Powder**

Gujarat Fluorochemicals Ltd.

Version No: 2.3

Safety Data Sheet (Conforms to Regulation (EU) No 2015/830)

Chemwatch Hazard Alert Code: 0

Issue Date: 18/02/2022 Print Date: 18/02/2022 S.REACH.GBR.EN

### SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

### 1.1. Product Identifier

Product name	PTFE Additive Powder
Chemical Name	polytetrafluoroethylene
Synonyms	INOLUB™ 200, 300 SERIES , R 600, 700, 800 SERIES, T 5000 SERIES
Chemical formula	(C <sub>2</sub> F <sub>4</sub> ) x
Other means of identification	Not Available
CAS number	9002-84-0*

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

Relevant identified uses	Addtive
Uses advised against	Not Applicable

### 1.3. Details of the supplier of the safety data sheet

Registered company name	Gujarat Fluorochemicals Ltd.	
Address	A, GIDC Dahej Industrial Estate India	
Telephone	+91-2641-618333	
Fax	+91-2641-618012	
Website	www.inolub.com	
Email	inolub@gfl.co.in	

### 1.4. Emergency telephone number

Association / Organisation	ujarat Fluorochemicals Ltd.	
Emergency telephone numbers	+91-2641-618080-81	
Other emergency telephone numbers	Europe: +49 40 8080 74 529	

### **SECTION 2 HAZARDS IDENTIFICATION**

### 2.1. Classification of the substance or mixture

Not considered a hazardous substance according to Reg. (EC) No 1272/2008 and its amendments. Not classified as Dangerous Goods for transport purposes.

### CHEMWATCH HAZARD RATINGS

	Min	Max	
Flammability	0		
Toxicity	0		0 = Minimum
Body Contact	0		1 = Low 2 = Moderate
Reactivity	0		3 = High
Chronic	0		4 = Extreme

Classification according to regulation (EC) No 1272/2008	
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### 2.2. Label elements

ZIZI ZUBOI OIOIIIOIIIO	zizi zabol domonio		
Hazard pictogram(s)	Not Applicable		
SIGNAL WORD	NOT APPLICABLE		

### Hazard statement(s)

Not Applicable

### Supplementary statement(s)

Not Applicable

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#### **PTFE Additive Powder**

Precautionary statement(s) Prevention

Not Applicable

Precautionary statement(s) Response

Not Applicable

Precautionary statement(s) Storage

Not Applicable

Precautionary statement(s) Disposal

Not Applicable

#### 2.3. Other hazards

Cumulative effects may result following exposure\*.

Limited evidence of a carcinogenic effect\*.

### **SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS**

### 3.1. Substances

1.CAS No 2.EC No 3.Index No 4.REACH No	%[weight]	Name	Classification according to regulation (EC) No 1272/2008 [CLP]
1.9002-84-0 2.Not Available 3.Not Available 4.Not Available	>99.9	<u>polytetrafluoroethylene</u>	Not Applicable

1. Classified by Chemwatch; 2. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 3. Classification drawn from C&L; \* EU IOELVs available Legend:

#### 3.2. Mixtures

See 'Information on ingredients' in section 3.1

## **SECTION 4 FIRST AID MEASURES**

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4.1.	Descri	ption (	of f	irst	aid	measur	es

	If this product comes in contact with eyes:
	▶ Wash out immediately with water.
	▶ If irritation continues, seek medical attention.
	Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Eye Contact	For THERMAL burns:
	▶ Do not remove contact lens
	▶ Lay victim down, on stretcher if available and pad BOTH eyes, make sure dressing does not press on the injured eye by placing
	thick pads under dressing, above and below the eye.
	▶ Seek urgent medical assistance, or transport to hospital.
	If skin or hair contact occurs:

Flush skin and hair with running water (and soap if available).

Seek medical attention in event of irritation.

- ▶ Immediately apply cold water to burn either by immersion or wrapping with saturated clean cloth.
- Do not remove or cut away clothing over burnt areas. Do not pull away clothing which has adhered to the skin as this can cause further injury.
- ▶ Do not break blister or remove solidified material.
- Quickly cover wound with dressing or clean cloth to help prevent infection and to ease pain.
- For large burns, sheets, towels or pillow slips are ideal; leave holes for eyes, nose and mouth.
- ▶ Do not apply ointments, oils, butter, etc. to a burn under any circumstances. Water may be given in small quantities if the person is conscious.
- Alcohol is not to be given under any circumstances.
- Reassure.

For thermal burns:

Treat for shock by keeping the person warm and in a lying position.

Seek medical aid and advise medical personnel in advance of the cause and extent of the injury and the estimated time of arrival of the patient.

Skin Contact

Decontaminate area around burn.

Consider the use of cold packs and topical antibiotics. For first-degree burns (affecting top layer of skin)

- ▶ Hold burned skin under cool (not cold) running water or immerse in cool water until pain subsides.
- ▶ Use compresses if running water is not available.
- Cover with sterile non-adhesive bandage or clean cloth.
- ▶ Do NOT apply butter or ointments; this may cause infection.

Give over-the counter pain relievers if pain increases or swelling, redness, fever occur.

For second-degree burns (affecting top two layers of skin)

- ▶ Cool the burn by immerse in cold running water for 10-15 minutes.
- ▶ Use compresses if running water is not available.
- ▶ Do NOT apply ice as this may lower body temperature and cause further damage.
- ▶ Do NOT break blisters or apply butter or ointments; this may cause infection.

Protect burn by cover loosely with sterile, nonstick bandage and secure in place with gauze or tape.

To prevent shock: (unless the person has a head, neck, or leg injury, or it would cause discomfort):

- Lay the person flat.
- ▶ Elevate feet about 12 inches.

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■ Elevate burn area above heart level, if possible. Cover the person with coat or blanket. ■ Seek medical assistance. For third-degree burns Seek immediate medical or emergency assistance. In the meantime: Fortect burn area cover loosely with sterile, nonstick bandage or, for large areas, a sheet or other material that will not leave lint in wound. ■ Separate burned toes and fingers with dry, sterile dressings. ▶ Do not soak burn in water or apply ointments or butter; this may cause infection. ■ To prevent shock, see above. ▶ For an airway burn, do not place pillow under the person's head when the person is lying down. This can close the airway. ■ Have a person with a facial burn sit up. ▶ Check pulse and breathing to monitor for shock until emergency help arrives. If dust is inhaled, remove from contaminated area. ■ Encourage patient to blow nose to ensure clear breathing passages. Inhalation ■ Ask patient to rinse mouth with water but to not drink water. ▶ Seek immediate medical attention. ▶ Immediately give a glass of water. Ingestion First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

### 4.2 Most important symptoms and effects, both acute and delayed

See Section 11

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

For polytetrafluoroethylene (PTFE) and other related fluoropolymers:

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

- ▶ Do not direct a solid stream of water or foam into burning molten material; this may cause spattering and spread the fire.
- Dry chemical powder.
- ▶ BCF (where regulations permit).
- Carbon dioxide.

### 5.2 Special bazards arising from the substrate or mixture

5.2. Special nazards arising from the substrate or mixture				
Fire Incompatibility	Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result			
5.3. Advice for firefighters				
Fire Fighting	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear breathing apparatus plus protective gloves.</li> <li>Prevent, by any means available, spillage from entering drains or water courses.</li> <li>Use water delivered as a fine spray to control fire and cool adjacent area.</li> </ul>			
	<ul> <li>Combustible solid which burns but propagates flame with difficulty; it is estimated that most organic dusts are combustible (circa 70%) - according to the circumstances under which the combustion process occurs, such materials may cause fires and / or dust explosions.</li> <li>Organic powders when finely divided over a range of concentrations regardless of particulate size or shape and suspended in air or some other oxidizing medium may form explosive dust-air mixtures and result in a fire or dust explosion (including secondary explosions).</li> <li>Avoid generating dust, particularly clouds of dust in a confined or unventilated space as dusts may form an explosive mixture with air, and any source of ignition, i.e. flame or spark, will cause fire or explosion. Dust clouds generated by the fine grinding of the solid are a particular hazard; accumulations</li> </ul>			

### Fire/Explosion Hazard

Carbon monoxide (CO)

Combustion products include:

Carbon dioxide (CO2)

Hydrogen fluoride

Other pyrolysis products typical of burning organic material.

CARE: Contamination of heated / molten liquid with water may cause violent steam explosion, with scattering of hot contents.

of fine dust (420 micron or less) may burn rapidly and fiercely if ignited - particles exceeding this limit will generally not form flammable dust clouds;

▶ Polytetrafluoroethylene (PTFE) and related polyfluorinated polymers does not burn without an external flame

once initiated, however, larger particles up to 1400 microns diameter will contribute to the propagation of an explosion.

▶ WARNING: Wear neoprene gloves when handling refuse from fire where polytetrafluoroethylene (PTFE) was present.

### **SECTION 6 ACCIDENTAL RELEASE MEASURES**

### 6.1. Personal precautions, protective equipment and emergency procedures

See section 8

### 6.2. Environmental precautions

See section 12

### 6.3. Methods and material for containment and cleaning up

**Minor Spills** 

■ Clean up all spills immediately.

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	Avoid contact with skin and eyes.      Wear impervious gloves and safety glasses.      Use dry clean up procedures and avoid generating dust.
Major Spills	<ul> <li>Clear area of personnel and move upwind.</li> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Control personal contact with the substance, by using protective equipment and dust respirator.</li> <li>Prevent spillage from entering drains, sewers or water courses.</li> </ul>

### 6.4. Reference to other sections

Personal Protective Equipment advice is contained in Section 8 of the SDS.

### **SECTION 7 HANDLING AND STORAGE**

### 7.1. Precautions for safe handling

Safe handling	<ul> <li>The greatest potential for injury caused by molten materials occurs during purging of machinery (moulders, extruders etc.)</li> <li>It is essential that workers in the immediate area of the machinery wear eye and skin protection (such as full face, safety glasses, heat resistant gloves, overalls and safety boots) as protection from thermal burns.</li> <li>Fumes or vapours emitted from hot melted materials, during converting operations, may condense on overhead metal surfaces or exhaust ducts. The condensate may contain substances which are irritating or toxic. Avoid contact of that material with the skin.</li> <li>Limit all unnecessary personal contact.</li> <li>Wear protective clothing when risk of exposure occurs.</li> <li>Use in a well-ventilated area.</li> <li>Avoid contact with incompatible materials.</li> <li>Organic powders when finely divided over a range of concentrations regardless of particulate size or shape and suspended in air or so me other oxidizing medium may form explosive dust-air mixtures and result in a fire or dust explosion (including secondary explosions)</li> <li>Minimise airborne dust and eliminate all ignition sources. Keep away from heat, hot surfaces, sparks, and flame.</li> <li>Establish good housekeeping practices.</li> <li>Remove dust accumulations on a regular basis by vacuuming or gentle sweeping to avoid creating dust clouds.</li> </ul>
Fire and explosion protection	See section 5
Other information	Store in original containers.     Keep containers securely sealed.     Store in a cool, dry area protected from environmental extremes.

7.2. Conditions for safe storage	, including any incompatibilities
Suitable container	Lined metal can, lined metal pail / can. Plastic pail. Plastic drum. Packing as recommended by manufacturer.
Storage incompatibility	Avoid contamination of water, foodstuffs, feed or seed. For polytetrafluoroethylene (PTFE) and other related fluoropolymers:  Standard oxidation-reduction potentials do not apply to PFC's. The materials are unaffected by electrochemical reactions and do not dissociate in aqueous media.  They are essentially already fully oxidised and are unaffected by standard oxidizing agents such as permanganates, chromates, etc. The only known oxidation takes place only at high temperatures by thermal decomposition.  Likewise, the materials are only reduced under extreme conditions, requiring reducing agents such as elemental sodium Avoid magnesium, aluminium and their alloys, brass and steel.  Avoid storage with strong oxidising agents, tetrafluoroethylene, hexafluoropropylene, perfluoroisobutylene, carbonyl fluoride and hydrogen fluoride.

▶ Store away from incompatible materials and foodstuff containers.

### 7.3. Specific end use(s)

See section 1.2

### SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1. Control parameters

DERIVED NO EFFECT LEVEL (DNEL)

Not Available

PREDICTED NO EFFECT LEVEL (PNEC)

Not Available

OCCUPATIONAL EXPOSURE LIMITS (OEL)

### INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Not Available						

### **EMERGENCY LIMITS**

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
Polytetrafluoroethylene	Polytetrafluoroethylene	12 mg/m3	130 mg/m3	790 mg/m3
Ingredient	Original IDLH	Revise	d IDLH	
Polytetrafluoroethylene	Not Available	Not Av	ailable	

### 8.2. Exposure controls

8.2.1. Appropriate engineering Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be

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highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done to reduce the risk. Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. For molten materials: Provide mechanical ventilation; in general such ventilation should be provided at compounding/ converting areas and at fabricating/ filling work stations where the material is heated. Local exhaust ventilation should be used over and in the vicinity of machinery involved in controls handling the molten material. Keep dry!! Processing temperatures may be well above boiling point of water, so wet or damp material may cause a serious steam explosion if used in unvented equipment. For polytetrafluoroethylene (PTFE) and other related fluoropolymers: In processes such as extrusion moulding, engineering controls should be designed to draw thermal degeneration products from the workers breathing zone. NOTE: When hydrogen fluoride is first detected continue to run equipment with the heat source to the polymer turned off. Ventilate the area and remove non-essential personnel from the area. In case of a major decomposition event evacuate all personnel immediately 8.2.2. Personal protection Safety glasses with side shields Chemical goggles Eye and face protection Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Skin protection The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical 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. The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and, has to be observed when making a final choice. Personal hygiene is a key element of effective hand care. When handling hot materials wear heat resistant, elbow length gloves. Hands/feet protection Rubber gloves are not recommended when handling hot objects, materials. Protective gloves e.g. Leather gloves or gloves with leather facing. Experience indicates that the following polymers are suitable as glove materials for protection against undissolved, dry solids, where abrasive particles are not present. ■ polychloroprene. ■ nitrile rubber ■ butyl rubber See Other protection below **Body protection** ■ When handling hot or molten liquids, wear trousers or overalls outside of boots, to avoid spills entering boots ■ Usually handled as molten liquid which requires worker thermal protection and increases hazard of vapour exposure. CAUTION: Vapours may be irritating. No special equipment needed when handling small quantities. Other protection OTHERWISE:

### Respiratory protection

Type A-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	A P1 Air-line*	-	A PAPR-P1
up to 50 x ES	Air-line**	A P2	A PAPR-P2
up to 100 x ES	-	A P3	-
		Air-line*	-
100+ x ES	-	Air-line**	A PAPR-P3

- Negative pressure demand \*\* - Continuous flow

A (All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide (HCN), B3 = Acid gas or hydrogen cyanide (HCN), E = Sulphur dioxide (SO2), G = Agricultural chemicals, K = Ammonia (NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds (below 65 °C)

### For molten materials:

- ▶ Respirators may be necessary when engineering and administrative controls do not adequately prevent exposures.
- Fig. The decision to use respiratory protection should be based on professional judgment that takes into account toxicity information, exposure measurement data, and frequency and likelihood of the worker's exposure - ensure users are not subject to high thermal loads which may result in heat stress or distress due to personal protective equipment (powered, positive flow, full face apparatus may be an option).
- Published occupational exposure limits, where they exist, will assist in determining the adequacy of the selected respiratory protection. These may be government mandated or vendor recommended.
- F Certified respirators will be useful for protecting workers from inhalation of particulates when properly selected and fit tested as part of a complete respiratory protection program.
- Use approved positive flow mask if significant quantities of dust becomes airborne.

Overalls. Barrier cream. ■ Eyewash unit

■ Try to avoid creating dust conditions.

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See section 12

### **SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

### 9.1. Information on basic physical and chemical properties

Appearance	Use may require material be molten. Molten or heated	material may be compounded, mould	ded or extruded.
Physical state	Solid	Relative density (Water = 1)	2.140 - 2.20
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Available	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	320-342	Molecular weight (g/mol)	Not Available
Flash point (°C)	Not Available	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Available	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Applicable
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water (g/L)	Immiscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

### 9.2. Other information

Not Available

### **SECTION 10 STABILITY AND REACTIVITY**

10.1. Reactivity	See section 7.2
10.2. Chemical stability	Product is considered stable and hazardous polymerisation will not occur.
10.3. Possibility of hazardous reactions	See section 7.2
10.4. Conditions to avoid	See section 7.2
10.5. Incompatible materials	See section 7.2
10.6. Hazardous decomposition products	See section 5.3

### **SECTION 11 TOXICOLOGICAL INFORMATION**

### 11.1. Information on toxicological effects

Inhaled	The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting. At temperatures of over 400 deg. C the polymer begins to decompose with the reaction becoming faster as temperature rises. Fumes from burning materials containing PTFE irritate the upper airway and may be harmful if exposure is prolonged. Overheated or burnt PTFE releases hydrogen fluoride (a highly irritating and corrosive gas) and small amounts of carbonyl fluoride (highly toxic).  Processing for an overly long time or processing at overly high temperatures may cause generation and release of highly irritating vapours, which irritate eyes, nose, throat, causing red itching eyes, coughing, sore throat.  Not normally a hazard due to non-volatile nature of product.
Ingestion	The material has <b>NOT</b> been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence.  High molecular weight material; on single acute exposure would be expected to pass through gastrointestinal tract with little change / absorption.  Occasionally accumulation of the solid material within the alimentary tract may result in formation of a bezoar (concretion), producing discomfort.
Skin Contact	The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models).  Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting.  Molten material is capable of causing burns.  Open cuts, abraded or irritated skin should not be exposed to this material  Entry into the blood-stream, though, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.
Eye	Although the material is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may cause transient discomfort characterized by tearing or conjunctival redness (as with windburn). Slight abrasive damage may also result.
Chronic	Long-term exposure to the product is not thought to produce chronic effects adverse to the health (as classified by EC Directives using animal models); nevertheless, exposure by all routes should be minimized as a matter of course.  Poly (tetrafluoroethylene) is used in the treatment for a number of urological disorders. Exposure of some experimental animals by local injection showed persistent chronic inflammatory reaction on histology of the sites taken. Repeated administration of 25% PFA (a derivative of PTFE) produced liver and testicular changes but subsequent studies did not reproduce these effects.  This material contains a substantial amount of polymer considered to be of low concern. These are classified under having MWs of between 1000 to 10000 with less than 25% of molecules with MWs under 1000 and less than 10% under 500; or having a molecular weight average of over 10000.

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There has been some concern that this material can cause cancer or mutations but there is not enough data to make an assessment. TOXICITY IRRITATION PTFE Additive Powder Not Available Not Available TOXICITY IRRITATION Polytetrafluoroethylene Oral (rat) LD50: 1250 mg/kg<sup>[2]</sup> Not Available Legend: 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.\* Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances Perfluorinated compounds are potent peroxisome proliferators. The material may produce peroxisome proliferation. Peroxisomes are single, membrane limited organelles in the cytoplasm that are found in the cells of animals, plants, fungi, and protozoa. **POLYTETRAFLUOROETHYLENE** The substance is classified by IARC as Group 3: NOT classifiable as to its carcinogenicity to humans. Evidence of carcinogenicity may be inadequate or limited in animal testing. **Acute Toxicity** Carcinogenicity (3) (5) Skin Irritation/Corrosion Reproductivity 0 ß STOT - Single Exposure 0 Serious Eye Damage/Irritation Respiratory or Skin S STOT - Repeated Exposure B sensitisation ß Mutagenicity **Aspiration Hazard** Ø

Legend:

- Data available but does not fill the criteria for classification

□ – Data available to make classification

### Data Available to make classification Data Not Available to make classification

### **SECTION 12 ECOLOGICAL INFORMATION**

### 12.1. Toxicity

PTFE Additive Powder	ENDPOINT Not Available	TEST DURATION (HR)  Not Available	SPECIES  Not Available	VALUE SOURCE  Not Not Available Available
polytetrafluoroethylene	ENDPOINT Not Available	TEST DURATION (HR)  Not Available	SPECIES  Not Available	VALUE SOURCE Not Not Available Available

Legend:

Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 (QSAR) - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

For polytetrafluoroethylene (PTFE) and other related polyfluorinated polymers:

Ecotoxicity is expected to be low based on the near zero water solubility of the polymer. Material is considered inert and is not expected to e biodegradable or toxic.

### 12.2. Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
polytetrafluoroethylene	HIGH	HIGH

### 12.3. Bioaccumulative potential

### 12.4. Mobility in soil

### 12.5. Results of PBT and vPvB assessment

	P	В	Т
Relevant available data	Not Available	Not Available	Not Available
PBT Criteria fulfilled?	Not Available	Not Available	Not Available

### 12.6. Other adverse effects

No data available

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### **SECTION 13 DISPOSAL CONSIDERATIONS**

#### 13.1. Waste treatment methods

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### **SECTION 14 TRANSPORT INFORMATION**

### Labels Required

Marine Pollutant	No
HAZCHEM	Not Applicable

### Land transport (ADR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1. UN number	Not Applicable	
14.2. UN proper shipping name	Not Applicable	
14.3. Transport hazard class(es)	Class Not Applicable	
	Subrisk Not Applicable	
14.4. Packing group		
14.5. Environmental hazard	Not Applicable	
	Not Applicable	
	Hazard identification (Kemler)	Not Applicable
14.6. Special precautions	Classification code	Not Applicable
for user	Hazard Label	Not Applicable
	Special provisions	Not Applicable
	Limited quantity	Not Applicable

### Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1. UN number	Not Applicable		
14.2. UN proper shipping name	Not Applicable		
14.3. Transport hazard class(es)	ICAO/IATA Class Not Applicable ICAO / IATA Subrisk Not Applicable ERG Code Not Applicable		
14.4. Packing group	Not Applicable		
14.5. Environmental hazard	Not Applicable		
	Special provisions  Cargo Only Packing Instructions	Not Applicable  Not Applicable	
	Cargo Only Maximum Qty / Pack	Not Applicable	
14.6. Special precautions for user	Passenger and Cargo Packing Instructions	Not Applicable	
Tot user	Passenger and Cargo Maximum Qty / Pack	Not Applicable	
	Passenger and Cargo Limited Quantity Packing Instructions	Not Applicable	
	Passenger and Cargo Limited Maximum Qty / Pack	Not Applicable	
	<u> </u>	•	

### Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1. UN number	Not Applicable	
14.2. UN proper shipping name	Not Applicable	
14.3. Transport hazard class(es)	IMDG Class Not Applicable  IMDG Subrisk Not Applicable	
14.4. Packing group		
14.5. Environmental hazard	Not Applicable	
	Not Applicable	
14.6. Special precautions	EMS Number Not Applicable	
for user	Special provisions Not Applicable	
	Limited Quantities Not Applicable	

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### Inland waterways transport (ADN): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.1. UN number	Not Applicable	
14.2. UN proper shipping name	Not Applicable	
14.3. Transport hazard class(es)	Not Applicable   Not Applicable	
14.4. Packing group	Not Applicable	
14.5. Environmental hazard	Not Applicable	
	Classification code Not Applicable	
14.6. Special precautions for user	Special provisions Not Applicable	
	Limited quantity Not Applicable	
	Equipment required Not Applicable	
	Fire cones number Not Applicable	

### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

### **SECTION 15 REGULATORY INFORMATION**

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

### POLYTETRAFLUOROETHYLENE (9002-84-0) IS FOUND ON THE FOLLOWING REGULATORY LISTS

European Customs Inventory of Chemical Substances ECICS (English)

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

This safety data sheet is in compliance with the following EU legislation and its adaptations - as far as applicable -: Directives 98/24/EC, - 92/85/EEC, - 94/33/EC, - 2008/98/EC, - 2010/75/EU; Commission Regulation (EU) 2015/830; Regulation (EC) No 1272/2008 as updated through ATPs.

### 15.2. Chemical safety assessment

For further information please look at the Chemical Safety Assessment and Exposure Scenarios prepared by your Supply Chain if available.

#### **ECHA SUMMARY**

Ingredient	CAS number	Index No	ECHA [	Dossier
polytetrafluoroethylene	9002-84-0	Not Available	Not Ava	ilable
Harmonisation (C&L Inventory)	Hazard Class and Category Code(s)	Pictograms Signal Word Code(s)		Hazard Statement Code(s)
1	Not Classified	Not Available		Not Available
2	Eye Irrit. 2; Skin Irrit. 2; STOT SE 3	GHS07; Wng		H319; H315; H335; H332
Harmonisation Code 1 = The n	Harmonisation Code 1 = The most prevalent classification. Harmonisation Code 2 = The most severe classification.			

### **National Inventory Status**

National Inventory	Status
Australia - AICS	Y
Canada - DSL	Y
Canada - NDSL	N (polytetrafluoroethylene)
China - IECSC	Y
Europe - EINEC / ELINCS / NLP	N (polytetrafluoroethylene)
Japan - ENCS	Y
Korea - KECI	Y
New Zealand - NZIoC	Y
Philippines - PICCS	Y
USA - TSCA	Υ
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 (see specific ingredients in brackets)

### **SECTION 16 OTHER INFORMATION**

Revision Date	16/01/2020
Initial Date	22/06/2018
Full text Risk and Hazard codes	
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.

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### **PTFE Additive Powder**

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

For detailed advice on Personal Protective Equipment, refer to the following EU CEN Standards:

EN 166 Personal eye-protection

EN 340 Protective clothing

EN 374 Protective gloves against chemicals and micro-organisms

EN 13832 Footwear protecting against chemicals

EN 133 Respiratory protective devices

#### **Definitions and abbreviations**

PC-TWA: Permissible Concentration -Time Weighted Average PC-STEL: Permissible Concentration-Short Term Exposure Limit

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit。

IDLH: Immediately Dangerous to Life or Health Concentrations

OSF: Odour Safety Factor

NOAEL: No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level

TLV: Threshold Limit Value LOD: Limit of Detection OTV: Odour Threshold Value BCF: Bio Concentration Factors BEI: Biological Exposure Index

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