

# Gujarat Fluorochemicals Ltd.

Version No: 1.2

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

Chemwatch Hazard Alert Code: 2

Issue Date: **27/04/2021**Print Date: **27/04/2021**S.REACH.GBR.EN

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

### 1.1. Product Identifier

Product name	INOLUB ™ I-SAN
Synonyms	Not Available
Other means of identification	Not Available

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

Relevant identified uses	Used to Produce Molded or Extruded Articles	
Uses advised against	Not Applicable	

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

Registered company name	Gujarat Fluorochemicals Ltd.	
Address	12/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	Gujarat Fluorochemicals Itd	
Emergency telephone numbers	+91-2641-618080-81	
Other emergency telephone numbers	Germany: +49 40 8080 74 667/668	

# **SECTION 2 HAZARDS IDENTIFICATION**

# 2.1. Classification of the substance or mixture

Considered a hazardous mixture according to Reg. (EC) No 1272/2008 and their amendments. Not classified as Dangerous Goods for transport purposes.

### CHEMWATCH HAZARD RATINGS

	Min Max	
Flammability	0	
Toxicity	2	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 [CLP] <sup>[1]</sup>	

H302 - Acute Toxicity (Oral) Category 4

Legend:

1. Classified by Chemwatch; 2. Classification drawn from EC Directive 67/548/EEC - Annex I; 3. Classification drawn from EC Directive 1272/2008 - Annex VI

# 2.2. Label elements

Hazard pictogram(s)



SIGNAL WORD

WARNING

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# Hazard statement(s)

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H302 Harmful if swallowed.

# Supplementary statement(s)

Not Applicable

# Precautionary statement(s) Prevention

P264	Wash all exposed external body areas thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.

### Precautionary statement(s) Response

,		
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor/physician/first aider/if you feel unwell.	
P330	Rinse mouth.	

# Precautionary statement(s) Storage

Not Applicable

# Precautionary statement(s) Disposal

**P501** Dispose of contents/container in accordance with local regulations.

### 2.3. Other hazards

Cumulative effects may result following exposure\*.

May produce discomfort of the respiratory system\*.

Limited evidence of a carcinogenic effect\*.

Possible respiratory sensitizer\*.

REACh - Art.57-59: The mixture does not contain Substances of Very High Concern (SVHC) at the SDS print date.

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

# 3.1.Substances

See 'Composition on ingredients' in Section 3.2

# 3.2.Mixtures

1.CAS No 2.EC No 3.Index No	%[weight]	Name	Classification according to regulation (EC) No 1272/2008 [CLP]
4.REACH No			
1.9002-84-0 2.Not Available 3.Not Available 4.Not Available	50	<u>polytetrafluoroethylene</u>	Not Applicable
1.9003-54-7 2.Not Available 3.Not Available 4.Not Available	50	styrene/ acrylonitrile copolymer	Acute Toxicity (Oral) Category 4; H302 <sup>[1]</sup>
Legend:	1. Classified by Chemwatch; 2. Classification drawn from EC Directive 67/548/EEC - Annex I; 3. Classification drawn from EC Directive 1272/2008 - Annex VI 4. Classification drawn from C&L		

### **SECTION 4 FIRST AID MEASURES**

# 4.1. Description of first aid measures

Eye Contact	▶ Generally not applicable.
Skin Contact	In case of burns:  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.  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.  For thermal burns:  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.

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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 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 mean time: 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 Generally not applicable If dust is inhaled, remove from contaminated area. Figure 2 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. Generally not applicable • IF SWALLOWED, REFER FOR MEDICAL ATTENTION, WHERE POSSIBLE, WITHOUT DELAY. For advice, contact a Poisons Information Centre or a doctor Urgent hospital treatment is likely to be needed. In the mean time, qualified first-aid personnel should treat the patient following observation and employing supportive measures as indicated by the patient's condition. If the services of a medical officer or medical doctor are readily available, the patient should be placed in his/her care and a copy of the SDS should be provided. Further action will be the responsibility of the medical specialist. If medical attention is not available on the worksite or surroundings send the patient to a hospital together with a copy of the SDS. Ingestion Where medical attention is not immediately available or where the patient is more than 15 minutes from a hospital or unless

FINDUCE vomiting with fingers down the back of the throat, ONLY IF CONSCIOUS. Lean patient forward or place on left side (headdown position, if possible) to maintain open airway and prevent aspiration.

NOTE: Wear a protective glove when inducing vomiting by mechanical means.

• Generally not applicable.

# 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

As in all cases of suspected poisoning, follow the ABCDEs of emergency medicine (airway, breathing, circulation, disability, exposure), then the ABCDEs of toxicology (antidotes, basics, change absorption, change distribution, change elimination).

For poisons (where specific treatment regime is absent):

### BASIC TREATMENT

- Establish a patent airway with suction where necessary.
- Watch for signs of respiratory insufficiency and assist ventilation as necessary.
- Administer oxygen by non-rebreather mask at 10 to 15 L/min.
- Monitor and treat, where necessary, for pulmonary oedema.
- Monitor and treat, where necessary, for shock.
- Anticipate seizures.
- DO NOT use emetics. Where ingestion is suspected rinse mouth and give up to 200 ml water (5 ml/kg recommended) for dilution where patient is able to swallow, has a strong gag reflex and does not drool.

### ADVANCED TREATMENT

- Consider orotracheal or nasotracheal intubation for airway control in unconscious patient or where respiratory arrest has occurred.
- Positive-pressure ventilation using a bag-valve mask might be of use.
- Monitor and treat, where necessary, for arrhythmias.
- Start an IV D5W TKO. If signs of hypovolaemia are present use lactated Ringers solution. Fluid overload might create complications.
- Drug therapy should be considered for pulmonary oedema.
- Hypotension with signs of hypovolaemia requires the cautious administration of fluids. Fluid overload might create complications.

Treat seizures with diazepam.

Proparacaine hydrochloride should be used to assist eye irrigation.

BRONSTEIN, A.C. and CURRANCE, P.L.

EMERGENCY CARE FOR HAZARDOUS MATERIALS EXPOSURE: 2nd Ed. 1994

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. (ILO)

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# **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.
- ▶ Foam.
- Dry chemical powder
- ▶ BCF (where regulations permit).
- Carbon dioxide.

### 5.2. Special hazards 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

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> <li>Slight hazard when exposed to heat, flame and oxidisers.</li> </ul>	
Fire/Explosion Hazard	Combustible. Will burn if ignited. Combustion products include: , carbon monoxide (CO) , carbon dioxide (CO2) , nitrogen oxides (NOx) , hydrogen fluoride , Articles and manufactured articles may constitute a fire hazard where polymers form their outer layers or where combustible packaging remains in place. Certain substances, found throughout their construction, may degrade or become volatile when heated to high temperatures. This may create a secondary hazard.  CARE: Contamination of heated / molten liquid with water may cause violent steam explosion, with scattering of hot contents.  Polytetrafluoroethylene (PTFE) and related polyfluorinated polymers does not burn without an external flame.  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	<ul> <li>Clean up all spills immediately.</li> <li>Secure load if safe to do so.</li> <li>Bundle/collect recoverable product.</li> <li>Collect remaining material in containers with covers for disposal.</li> </ul>
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>Wear breathing apparatus plus protective gloves.         Prevent, by any means available, spillage from entering drains or water course.     </li> <li>Minor hazard.</li> <li>Clear area of personnel.</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 as required.</li> <li>Clean up all spills immediately.</li> <li>Wear protective clothing, safety glasses, dust mask, gloves.</li> <li>Secure load if safe to do so. Bundle/collect recoverable product.</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 The greatest potential for injury caused by molten materials occurs during purging of machinery (moulders, extruders etc.) 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. 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. Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Prevent concentration in hollows and sumps.

Fire and explosion protection

See section 5

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Other information

Store away from incompatible materials

### 7.2. Conditions for safe storage, including any incompatibilities

### Suitable container

Storage incompatibility

Generally packaging as originally supplied with the article or manufactured item is sufficient to protect against physical hazards. If repackaging is required ensure the article is intact and does not show signs of wear. As far as is practicably possible, reuse the original packaging or something providing a similar level of protection to both the article and the handler.

For saturated perfluorocarbons:

- Standard oxidation-reduction potentials do not apply to PFCs. 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.

For polytetrafluoroethylene (PTFE) and other related polyfluorinated polymers:

Avoid storage with strong oxidising agents, tetrafluoroethylene, hexafluoroethylene, perfluoroisobutylene, carbonyl fluoride and hydrogen fluoride.

# 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

polytetrafluoroethylene	Polytetrafluoroethylene	12 mg/m3	130 mg/m3	790 mg/m3
Ingredient	Original IDLH	Revised IDLH		
polytetrafluoroethylene	Not Available	Not Available		
styrene/ acrylonitrile copolymer	Not Available	Not Available		

# 8.2. Exposure controls

For molten materials

Material name

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 handling the molten material. Keep dry!!

TEEL-1

TEEL-2

TEEL-3

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.

# 8.2.1. Appropriate engineering controls

Articles or manufactured items, in their original condition, generally don't require engineering controls during handling or in normal use. Exceptions may arise following extensive use and subsequent wear, during recycling or disposal operations where substances, found in the article, may be released to the environment.

For polytetrafluoroethylene (PTFE) and other related polyfluorinated polymers:

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











### 6.2.2. Personal protection

Eye and face protection

- ► Safety glasses with side shields
- ▶ Chemical goggles
- 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.

No special equipment required due to the physical form of the product.

Skin protection

See Hand protection below

# Hands/feet protection

- Wear general protective gloves, eg. light weight rubber gloves.
  - When handling hot materials wear heat resistant, elbow length gloves.
     Rubber gloves are not recommended when handling hot objects, materials
  - ▶ Protective gloves eg. Leather gloves or gloves with Leather facing

Body protection

See Other protection below

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Other protection	<ul> <li>When handling hot or molten liquids, wear trousers or overalls outside of boots, to avoid spills entering boots.</li> <li>Usually handled as molten liquid which requires worker thermal protection and increases hazard of vapour exposure.</li> <li>CAUTION: Vapours may be irritating.</li> <li>Overalls.</li> <li>P.V.C. apron.</li> <li>Barrier cream.</li> </ul>
Thermal hazards	Not Available

### Respiratory protection

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

Selection of the Class and Type of respirator will depend upon the level of breathing zone contaminant and the chemical nature of the contaminant. Protection Factors (defined as the ratio of contaminant outside and inside the mask) may also be important.

Required minimum protection factor	Maximum gas/vapour concentration present in air p.p.m. (by volume)	Half-face Respirator	Full-Face Respirator
up to 10	1000	A-AUS / Class1 P2	-
up to 50	1000	-	A-AUS / Class 1 P2
up to 50	5000	Airline *	-
up to 100	5000	-	A-2 P2
up to 100	10000	-	A-3 P2
100+			Airline**

<sup>\* -</sup> Continuous Flow \*\* - Continuous-flow or positive pressure demand

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 = Sulfur 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 degC)

Respiratory protection not normally required due to the physical form of the product. For molten materials:

# 8.2.3. Environmental exposure controls

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, moulded or extruded.		
Physical state	article	Relative density (Water = 1)	Not Available
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)	Not Available	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 Available
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

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### **SECTION 11 TOXICOLOGICAL INFORMATION**

Ingestion

Eye

Chronic

Legend:

# 11.1. Information on toxicological effects

The material is not thought to produce either adverse health effects or irritation of the respiratory tract following inhalation (as classified by EC Directives using animal models). Nevertheless, adverse systemic effects have been produced following exposure of animals by at least one other route and 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. Accidental ingestion of the material may be harmful; animal experiments indicate that ingestion of less than 150 gram may be fatal or may

Skin contact is not thought to produce harmful health effects (as classified under EC Directives using animal models). Systemic harm, however, has been identified following exposure of animals by at least one other route and the material may still produce health damage following entry through wounds, lesions or abrasions.

Skin Contact Molten material is capable of causing burns. Open cuts, abraded or irritated skin should not be exposed to this material

produce serious damage to the health of the individual.

Entry into the blood-stream, through, 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.

Although the material is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may produce transient discomfort characterised by tearing or conjunctival redness (as with windburn). 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 minimised 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. There has been some concern that this material can cause cancer or mutations but there is not enough data to make an assessment.

INOLUB ™ I-SAN	TOXICITY  Not Available	IRRITATION  Not Available
polytetrafluoroethylene	TOXICITY  Oral (rat) LD50: 1250 mg/kg <sup>[2]</sup>	IRRITATION  Not Available
styrene/ acrylonitrile copolymer	TOXICITY  Oral (rat) LD50: 1800 mg/kg <sup>[2]</sup>	IRRITATION Not Available

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. POLYTETRAFLUOROETHYLENE 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: & STYRENE/ ACRYLONITRILE NOT classifiable as to its carcinogenicity to humans. COPOLYMER

Evidence of carcinogenicity may be inadequate or limited in animal testing.

Acute Toxicity	✓	Carcinogenicity	0
Skin Irritation/Corrosion	0	Reproductivity	0
Serious Eye Damage/Irritation		STOT - Single Exposure	0
Respiratory or Skin sensitisation	0	STOT - Repeated Exposure	0
Mutagenicity	0	Aspiration Hazard	0

Legend:

X - Data available but does not fill the criteria for classification

Data available to make classification

N - Data Not Available to make classification

### **SECTION 12 ECOLOGICAL INFORMATION**

### 12.1 Toxicity

12111 TOXIOLY					
INOLUB ™ I-SAN	ENDPOINT Not	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
	Available	Not Available	Not Available	Available	Available
polytetrafluoroethylene	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE

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	Not Available	Not Available	Not Not Available Available
styrene/ acrylonitrile copolymer	ENDPOINT TEST DURATION (HR)  Not Available  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. **DO NOT** discharge into sewer or waterways.

# 12.2. Persistence and degradability

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

# 12.3. Bioaccumulative potential

Ingredient	Bioaccumulation
polytetrafluoroethylene	LOW (LogKOW = 1.2142)

# 12.4. Mobility in soil

Ingredient	Mobility
polytetrafluoroethylene	LOW (KOC = 106.8)

### 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

# **SECTION 13 DISPOSAL CONSIDERATIONS**

### 13.1. Waste treatment methods

Product / Packaging disposal	Recycle wherever possible or consult manufacturer for recycling options.  Consult State Land Waste Management Authority for disposal.  DO NOT allow wash water from cleaning or process equipment to enter drains.  It may be necessary to collect all wash water for treatment before disposal.  In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.  Where in doubt contact the responsible authority.  Recycle wherever possible or consult manufacturer for recycling options.  Consult State Land Waste Authority for disposal.  Bury or incinerate residue at an approved site.  Recycle containers if possible, or dispose of in an authorised landfill.
Waste treatment options	Not Available
Sewage disposal options	Not Available

# **SECTION 14 TRANSPORT INFORMATION**

# Labels Required

Marine Pollutant	Marine Pollutant NO				
HAZCHEM Not Applicable					
Land transport (ADR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS					
ALA UN comban. Not Accited to					

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	Not Applicable
14.5.Environmental hazard	Not Applicable

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14.6. Special precautions for user

Hazard identification (Kemler)	Not Applicable
Classification code	Not Applicable
Hazard Label	Not Applicable
Special provisions	Not Applicable
Limited quantity	Not Applicable

# Air transport (ICAO-IATA / DGR)

: NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS	: NOT REGULATED	FOR TRANSPORT	OF DANGEROUS	GOODS
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: NOT REGULATED FOR TRANSPO	IOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS			
14.1. UN number	Not Applicable			
14.2. UN proper shipping name	Not Applicable			
	ICAO/IATA Class Not Applicable			
14.3. Transport hazard class(es)	ICAO / IATA Subrisk Not Applicable			
	ERG Code Not Applicable			
14.4. Packing group	Not Applicable			
14.5. Environmental hazard	Not Applicable			
	Special provisions	Not Applicable		
14.6. Special precautions for user	Cargo Only Packing Instructions	Not Applicable		
	Cargo Only Maximum Qty / Pack	Not Applicable		
	Passenger and Cargo Packing Instructions	Not Applicable		
	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		

# 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	Not Applicable
14.5. Environmental hazard	Not Applicable
14.6. Special precautions for user	EMS Number Not Applicable Special provisions Not Applicable Limited Quantities Not Applicable

# 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	
14.6. Special precautions for user	Classification code Not Applicable  Special provisions Not Applicable  Limited quantity Not Applicable	
user	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

Issue Date: **27/04/2021**Print Date: **21/04/2021** 

European Customs Inventory of Chemical Substances ECICS (English)

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

### STYRENE/ ACRYLONITRILE COPOLYMER(9003-54-7) IS FOUND ON THE FOLLOWING REGULATORY LISTS

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 - : 98/24/EC, 92/85/EC, 94/33/EC, 91/689/EEC, 1999/13/EC, Commission Regulation (EU) 2015/830, Regulation (EC) No 1272/2008 and their amendments

### 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**

Version No: 1.2

Ingredient	CAS number	Index No	ECHA D	ossier	
polytetrafluoroethylene	9002-84-0	Not Available		Not Available	
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 most prevalent classification. Harmonisation Code 2 = The most severe classification.

Ingredient	CAS number	Index No	ECHA Dossier	
styrene/ acrylonitrile copolymer	9003-54-7	Not Available	Not Available	
Harmonisation (C&L Inventory)	Hazard Class and Category Code(s)	Pictograms Signal Word Code(s)		Hazard Statement Code(s)
1	Acute Tox. 4	GHS07; Wng		H302
2	Acute Tox. 4	GHS07; Wng		H302

Harmonisation Code 1 = The most prevalent classification. Harmonisation Code 2 = The most severe classification.

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

### **SECTION 16 OTHER INFORMATION**

Revision Date	27/04/2021	
Initial Date	27/04/2021	
Full text Risk and Hazard codes		
H315	Causes skin irritation.	
H319	Causes serious eye irritation.	
H332	Harmful if inhaled.	
H335	May cause respiratory irritation.	
Not Available	Not Available	

### 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.

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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: BioConcentration Factors BEI: Biological Exposure Index

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