

## INOLUB™ P402F, P412F, P502F

Gujarat Fluorochemicals Ltd.

Chemwatch Hazard Alert Code: 1

Version No: 2.3

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

Issue Date: 01/03/2018

Print Date: 02/03/2018

S.REACH.GBR.EN

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

#### 1.1. Product Identifier

<b>Product name</b>	INOLUB™ P402F, P412F, P502F
<b>Synonyms</b>	Not Available
<b>Other means of identification</b>	Not Available

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

<b>Relevant identified uses</b>	Polymer Processing Additive
<b>Uses advised against</b>	Not Applicable

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

<b>Registered company name</b>	Gujarat Fluorochemicals Ltd.
<b>Address</b>	12/ A Dahej Industrial Estate GIDC
<b>Telephone</b>	+91-2641-618333
<b>Fax</b>	+91-2641-618012
<b>Website</b>	www.inolub.com
<b>Email</b>	inolub@gfl.co.in

#### 1.4. Emergency telephone number

<b>Association / Organisation</b>	Gujarat Fluorochemicals Ltd
<b>Emergency telephone numbers</b>	+91-2641-618080-81
<b>Other emergency telephone numbers</b>	Not Available

### SECTION 2 HAZARDS IDENTIFICATION

#### 2.1. Classification of the substance or mixture

**Not 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	1		
Toxicity	0		
Body Contact	1		
Reactivity	1		
Chronic	0		

0 = Minimum  
1 = Low  
2 = Moderate  
3 = High  
4 = Extreme

<b>Classification according to regulation (EC) No [1] 1272/2008 [CLP]</b>	Not Applicable
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#### 2.2. Label elements

<b>CLP label elements</b>	Not Applicable
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**SIGNAL WORD** NOT APPLICABLE

#### Hazard statement(s)

Not Applicable

#### Supplementary statement(s)

<b>EUH210</b>	SDS available on request
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#### Precautionary statement(s) Prevention

Not Applicable

## INOLUB™ P402F, P412F, P502F

**Precautionary statement(s) Response**

Not Applicable

**Precautionary statement(s) Storage**

Not Applicable

**Precautionary statement(s) Disposal**

Not Applicable

**2.2. Other hazards**

Cumulative effects may result following exposure\*.

May produce discomfort of the respiratory system\*.

Limited evidence of a carcinogenic effect\*.

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 4.REACH No	%[weight]	Name	Classification according to regulation (EC) No 1272/2008 [CLP]
1.25322-68-3 2.500-038-2 3.Not Available 4.Not Available	<80	<u>polyethylene glycol</u>	Not Applicable
1.9011-17-0 2.Not Available 3.Not Available 4.Not Available	>15	<u>vinylidene fluoride/ hexafluoropropene copolymer</u>	Not Applicable
1.14807-96-6 2.238-877-9 3.Not Available 4.Not Available	<3	<u>Talc</u>	Not Applicable
1.7631-86-9 2.231-545-4 3.Not Available 4.01-2119486866-17-XXXX, 01-2119379499-16-XXXX	<1	<u>silica amorphous</u>	Not Applicable
	<2	<u>Other</u>	Not Applicable

**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**

<b>General</b>	<p>If skin or hair contact occurs:  Flush skin and hair with running water (and soap if available).  Seek medical attention in event of irritation.</p> <p>For thermal burns:  Decontaminate area around burn.  Consider the use of cold packs and topical antibiotics.</p> <p>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.</p> <p>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.</p> <ul style="list-style-type: none"> <li>▶ Do NOT break blisters or apply butter or ointments; this may cause infection.</li> <li>▶ Protect burn by cover loosely with sterile, nonstick bandage and secure in place with gauze or tape.</li> </ul> <p>To prevent shock: (unless the person has a head, neck, or leg injury, or it would cause discomfort):  Lay the person flat.</p> <ul style="list-style-type: none"> <li>▶ Elevate feet about 12 inches.</li> <li>▶ Elevate burn area above heart level, if possible.</li> <li>▶ Cover the person with coat or blanket.</li> </ul> <p>Seek medical assistance.</p>
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## INOLUB™ P402F, P412F, P502F

For third-degree burns

Seek immediate medical or emergency assistance. In the mean time:

- ▶ Protect 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.

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. 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.
  - ▶ If fumes or combustion products are inhaled remove from contaminated area.
  - ▶ Lay patient down. Keep warm and rested.
  - ▶ Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.
  - ▶ Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.
  - ▶ Transport to hospital, or doctor, without delay.
  - ▶ Immediately give a glass of water.
  - ▶ First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

Eye Contact

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.

Skin Contact

If skin or hair contact occurs:

- ▶ Flush skin and hair with running water (and soap if available).
- ▶ Seek medical attention in event of irritation. 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.
    - ▶ 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

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- ▶ Have a person with a facial burn sit up.
- ▶ Check pulse and breathing to monitor for shock until emergency help arrives.

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- ▶ **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.

## INOLUB™ P402F, P412F, P502F

<b>Inhalation</b>	<ul style="list-style-type: none"> <li>▶ If fumes or combustion products are inhaled remove from contaminated area. Lay patient down. Keep warm and rested.</li> <li>▶ Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>▶ Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.</li> <li>▶ Transport to hospital, or doctor, without delay.</li> </ul>
<b>Ingestion</b>	<ul style="list-style-type: none"> <li>▶ Immediately give a glass of water.</li> <li>▶ First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.</li> </ul>

**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.

As in all cases of suspected poisoning, follow the ABCDEs of emergency medicine (airway, breathing, circulation, disability, expo sure), 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

**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**

<b>Fire Incompatibility</b>	▶ Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result
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**5.3. Advice for firefighters**

<b>Fire Fighting</b>	<ul style="list-style-type: none"> <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>
<b>Fire/Explosion Hazard</b>	<ul style="list-style-type: none"> <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 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; once initiated, however, larger particles up to 1400 microns diameter will contribute to the propagation of an explosion.</li> </ul> <p>Combustion products include: carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>), hydrogen fluoride, other pyrolysis products typical of burning organic material. May emit poisonous fumes. May emit corrosive fumes. <b>CARE:</b> Contamination of heated / molten liquid with water may cause violent steam explosion, with scattering of hot contents.</p>

**SECTION 6 ACCIDENTAL RELEASE MEASURES****6.1. Personal precautions, protective equipment and emergency procedures**

See section 8

**6.2. Environmental precautions**

See section 12

## INOLUB™ P402F, P412F, P502F

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

Minor Spills	<ul style="list-style-type: none"> <li>▶ Clean up all spills immediately.</li> <li>▶ Avoid breathing dust and contact with skin and eyes.</li> <li>▶ Wear protective clothing, gloves, safety glasses and dust respirator.</li> <li>▶ Use dry clean up procedures and avoid generating dust.</li> </ul>
Major Spills	<p>Moderate hazard</p> <ul style="list-style-type: none"> <li>▶ <b>CAUTION:</b> Advise personnel in area.</li> <li>▶ Alert Emergency Services and tell them location and nature of hazard.</li> <li>▶ Control personal contact by wearing protective clothing.</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 style="list-style-type: none"> <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>▶ Avoid all personal contact, including inhalation.</li> <li>▶ Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area.</li> <li>▶ Prevent concentration in hollows and sumps.</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>▶ Minimise airborne dust and eliminate all ignition sources. Keep away from heat, hot surfaces, sparks, and flame. 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	<ul style="list-style-type: none"> <li>▶ Store in original containers.</li> <li>▶ Keep containers securely sealed.</li> <li>▶ Store in a cool, dry area protected from environmental extremes.</li> <li>▶ Store away from incompatible materials and foodstuff containers.</li> </ul>

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

Suitable container	<ul style="list-style-type: none"> <li>▶ Polyethylene or polypropylene container.</li> <li>▶ Check all containers are clearly labelled and free from leaks.</li> </ul>
Storage incompatibility	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
UK Workplace Exposure Limits (WELs)	talc	Talc, respirable dust	1 mg/m <sup>3</sup>	Not Available	Not Available	Not Available
UK Workplace Exposure Limits (WELs)	silica amorphous	Diatomaceous earth, natural, respirable dust	1.2 mg/m <sup>3</sup>	Not Available	Not Available	Not Available

## EMERGENCY LIMITS

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
polyethylene glycol	Polyethylene glycol	30 mg/m <sup>3</sup>	200 mg/m <sup>3</sup>	18000 mg/m <sup>3</sup>
vinylidene fluoride/hexafluoropropene copolymer	Hexafluoropropylene-vinylidene fluoride polymer	30 mg/m <sup>3</sup>	330 mg/m <sup>3</sup>	2000 mg/m <sup>3</sup>
talc	Talc	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>	2.6 mg/m <sup>3</sup>
silica amorphous	Silica gel, amorphous synthetic	6 mg/m <sup>3</sup>	6 mg/m <sup>3</sup>	6 mg/m <sup>3</sup>
silica amorphous	Silica, amorphous fumed	6 mg/m <sup>3</sup>	6 mg/m <sup>3</sup>	630 mg/m <sup>3</sup>
silica amorphous	Diatomaceous earth; (Silica-amorphous diatomaceous earth (uncalcined))	18 mg/m <sup>3</sup>	200 mg/m <sup>3</sup>	1200 mg/m <sup>3</sup>
silica amorphous	Siloxanes and silicones, dimethyl, reaction products with silica; (Hydrophobic silicon dioxide, amorphous)	0.07 mg/m <sup>3</sup>	0.77 mg/m <sup>3</sup>	4.6 mg/m <sup>3</sup>

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## INOLUB™ P402F, P412F, P502F

silica amorphous	Silica, amorphous fume	0.3 mg/m3	0.3 mg/m3	1.6 mg/m3
silica amorphous	Silica amorphous hydrated	6 mg/m3	6 mg/m3	85 mg/m3
silica amorphous	Diatomaceous silica, calcined	0.9 mg/m3	9.9 mg/m3	59 mg/m3

Ingredient	Original IDLH	Revised IDLH
polyethylene glycol	Not Available	Not Available
vinylidene fluoride/ hexafluoropropene copolymer	Not Available	Not Available
talc	N.E. mg/m3 / N.E. ppm	1,000 mg/m3
silica amorphous	N.E. mg/m3 / N.E. ppm	3,000 mg/m3

## 8.2. Exposure controls

<b>8.2.1. Appropriate engineering controls</b>	<p>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 handling the molten material. Keep dry!!</p> <p>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. Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be 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.</p>
<b>8.2.2. Personal protection</b>	
<b>Eye and face protection</b>	<p>Safety glasses with side shields. Chemical goggles.</p> <p>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.</p>
<b>Skin protection</b>	See Hand protection below
<b>Hands/feet protection</b>	<p>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 can not 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.</p> <p>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 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.</p>
<b>Body protection</b>	See Other protection below
<b>Other protection</b>	<p>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. <b>CAUTION: Vapours may be irritating.</b> Overalls. P.V.C. apron. Barrier cream.</p>
<b>Thermal hazards</b>	Not Available

## Recommended material(s)

## GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:

"Forsberg Clothing Performance Index".

The effect(s) of the following substance(s) are taken into account in the **computer-generated** selection:

INOLUBTM P402F, INOLUBTM P502F

Material	CPI
BUTYL	A
NEOPRENE	A
VITON	A
NATURAL RUBBER	C
PVA	C

\* CPI - Chemwatch Performance

Index A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

## Respiratory protection

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

## INOLUB™ P402F, P412F, P502F

C: Poor to Dangerous Choice for other than short term immersion

**NOTE:** As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. -

\* Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

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 = Sulfur dioxide(SO<sub>2</sub>), G = Agricultural chemicals, K = Ammonia(NH<sub>3</sub>), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

For molten

materials: 76a-p()

- ▶ Respirators may be necessary when engineering and administrative controls do not adequately prevent exposures.
- ▶ 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.
- ▶ 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. Try to avoid creating dust conditions.

### 8.2.3. Environmental exposure controls

See section 12

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

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

<b>Appearance</b>	white powder		
<b>Physical state</b>	Solid	<b>Relative density (Water = 1)</b>	0.7
<b>Odour</b>	Not Available	<b>Partition coefficient n-octanol / water</b>	Not Available
<b>Odour threshold</b>	Not Available	<b>Auto-ignition temperature (°C)</b>	341
<b>pH (as supplied)</b>	Not Available	<b>Decomposition temperature</b>	Not Available
<b>Melting point / freezing point (°C)</b>	Not Available	<b>Viscosity (cSt)</b>	Not Available
<b>Initial boiling point and boiling range (°C)</b>	Not Available	<b>Molecular weight (g/mol)</b>	Not Available
<b>Flash point (°C)</b>	Not Available	<b>Taste</b>	Not Available
<b>Evaporation rate</b>	Not Available	<b>Explosive properties</b>	Not Available
<b>Flammability</b>	Not Available	<b>Oxidising properties</b>	Not Available
<b>Upper Explosive Limit (%)</b>	Not Available	<b>Surface Tension (dyn/cm or mN/m)</b>	Not Applicable
<b>Lower Explosive Limit (%)</b>	Not Available	<b>Volatile Component (%vol)</b>	Not Available
<b>Vapour pressure (kPa)</b>	Not Available	<b>Gas group</b>	Not Available
<b>Solubility in water (g/L)</b>	Immiscible	<b>pH as a solution (1%)</b>	Not Available
<b>Vapour density (Air = 1)</b>	Not Available	<b>VOC g/L</b>	Not Available

### 9.2. Other information

Not Available

## SECTION 10 STABILITY AND REACTIVITY

<b>10.1. Reactivity</b>	See section 7.2
<b>10.2. Chemical stability</b>	<ul style="list-style-type: none"> <li>▶ Unstable in the presence of incompatible materials. Product is considered stable.</li> <li>▶ Hazardous polymerisation will not occur.</li> </ul>

Continued...



## INOLUB™ P402F, P412F, P502F

<b>10.3. Possibility of hazardous reactions</b>	See section 7.2
<b>10.4. Conditions to avoid</b>	See section 7.2
<b>10.5. Incompatible materials</b>	See section 7.2
<b>10.6. Hazardous decomposition products</b>	See section 5.3

## SECTION 11 TOXICOLOGICAL INFORMATION

## 11.1. Information on toxicological effects

<b>Inhaled</b>	<p>The material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage. 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). Persons with impaired respiratory function, airway diseases and conditions such as emphysema or chronic bronchitis, may incur further disability if excessive concentrations of particulate are inhaled.</p> <p>If prior damage to the circulatory or nervous systems has occurred or if kidney damage has been sustained, proper screenings should be conducted on individuals who may be exposed to further risk if handling and use of the material result in excessive exposures.</p> <p>✦ Usually handled as molten liquid which requires worker thermal protection and increases hazard of vapour exposure. ✦ <b>CAUTION: Vapours may be irritating.</b></p>
<b>Ingestion</b>	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.
<b>Skin Contact</b>	<p>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. Open cuts, abraded or irritated skin should not be exposed to this material</p> <p>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.</p>
<b>Eye</b>	Although the material is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may cause transient discomfort characterised by tearing or conjunctival redness (as with windburn). Slight abrasive damage may also result.
<b>Chronic</b>	Long-term exposure to respiratory irritants may result in disease of the airways involving difficult breathing and related systemic problems. Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure. There has been some concern that this material can cause cancer but there is not enough data to make an assessment

	TOXICITY	IRRITATION
<b>INOLUB™ P402F,P412F INOLUB™ P502F</b>	Not Available	Not Available
<b>polyethylene glycol</b>	Dermal (rabbit) LD50: >20440 mg/kg <sup>[2]</sup> Oral (rat) LD50: 600 mg/kg	Eye (rabbit): 500mg/24h - mild. Skin (rabbit): 500mg/24h - mild.
<b>vinylidene fluoride/ hexafluoropropene copolymer</b>	Not Available	Not Available
<b>talc</b>	Not Available	Skin (human): 0.3 mg/3d-I mild
<b>silica amorphous</b>	Dermal (rabbit) LD50: >2000 mg/kg <sup>[1]</sup> Inhalation (rat) LC50: >0.139 mg/l/14hr * <sup>[2]</sup> Oral (rat) LD50: 3160 mg/kg	* [Grace] Eye (rabbit): non-irritating * Skin (rabbit): non-irritating *
<b>water</b>	Oral (rat) LD50: >90000 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

<b>POLYETHYLENE GLYCOL</b>	<p>for polyethylene glycols</p> <p>Pure polyethylene glycols have essentially similar toxicity, with toxicity being inverse to molecular weights. Absorption from the gastrointestinal tract decreases with increasing molecular weight</p> <p>The G.I. absorption of a series of polyethylene glycols has been studied. Polyethylene glycols having average molecular weights of 4000 and 6000 showed no absorption from the rat intestine over a five-hour period, while polyethylene glycols of 1000 and 1540 molecular weights showed a slight absorption amounting to less than 2% of the total dose during the same period.</p> <p>The material may be irritating to the eye, with prolonged contact causing inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis. The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin.</p> <p>for molecular weights (200-8000) * Oral (rat) LD50: 31000-&gt;50000 mg/kg Oral (mice) LD50: 38000-&gt;50000 mg/kg Oral (g.pig) LD50: 17000-&gt;50000 mg/kg Oral (rabbit) LD50: 14000-&gt;50000 mg/kg * AIHA WEEL Guides Intraperitoneal (mice) LD50: 3100-12900 mg/kg</p>
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## INOLUB™ P402F, P412F, P502F

<b>TALC</b>	The overuse of talc in nursing infants has resulted in respiratory damage causing fluid in the lungs and lung inflammation which may lead to death within hours of inhalation. Long-term exposure can also cause a variety of respiratory symptoms.
<b>SILICA AMORPHOUS</b>	For silica amorphous: When experimental animals inhale synthetic amorphous silica (SAS) dust, it dissolves in the lung fluid and is rapidly eliminated. If swallowed, the vast majority of SAS is excreted in the faeces and there is little accumulation in the body. Following absorption across the gut, SAS is eliminated via urine without modification in animals and humans. SAS is not expected to be broken down (metabolised) in mammals. Reports indicate high/prolonged exposures to amorphous silicas induced lung fibrosis in experimental animals; in some experiments these effects were reversible. [PATTYS]
<b>INOLUB™ P402F,P412F INOLUB™ P502F &amp; TALC</b>	Asthma-like symptoms may continue for months or even years after exposure to the material ceases. This may be due to a non-allergenic condition known as reactive airways dysfunction syndrome (RADS) which can occur following exposure to high levels of highly irritating compound. Key criteria for the diagnosis of RADS include the absence of preceding respiratory disease, in a non-atopic individual, with abrupt onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. A reversible airflow pattern, on spirometry, with the presence of moderate to severe bronchial hyperreactivity on methacholine challenge testing and the lack of minimal lymphocytic inflammation, without eosinophilia, have also been included in the criteria for diagnosis of RADS.
<b>VINYLDENE FLUORIDE/ HEXAFLUOROPROPENE COPOLYMER &amp; TALC</b>	No significant acute toxicological data identified in literature search.
<b>TALC &amp; SILICA AMORPHOUS</b>	The substance is classified by IARC as Group 3: <b>NOT</b> classifiable as to its carcinogenicity to humans. Evidence of carcinogenicity may be inadequate or limited in animal testing.
<b>Acute Toxicity</b>	<b>Carcinogenicity</b>
<b>Skin Irritation/Corrosion</b>	<b>Reproductivity</b>
<b>Serious Eye Damage/Irritation</b>	<b>STOT - Single Exposure</b>
<b>Respiratory or Skin sensitisation</b>	<b>STOT - Repeated Exposure</b>
<b>Mutagenicity</b>	<b>Aspiration Hazard</b>
<p>Legend: <span style="color:red">✘</span> - Data available but does not fill the criteria for classification  <span style="color:green">✔</span> - Data required to make classification available  <span style="color:blue">⊖</span> - Data Not Available to make classification</p>	

## SECTION 12 ECOLOGICAL INFORMATION

## 12.1. Toxicity

Ingredient	Endpoint	Test Duration (hr)	Species	Value	Source
polyethylene glycol	LC50	96	Fish	>1000mg/L	4
polyethylene glycol	EC50	96	Algae or other aquatic plants	20935.086mg/L	3
polyethylene glycol	EC50	Not Applicable	Algae or other aquatic plants	398.9135mg/L	2
polyethylene glycol	NOEC	72	Algae or other aquatic plants	56.02036mg/L	2
silica amorphous	LC50	96	Fish	120.743mg/L	3
silica amorphous	EC50	48	Crustacea	>1000mg/L	2
silica amorphous	EC50	72	Algae or other aquatic plants	440mg/L	1
silica amorphous	EC50	384	Crustacea	28.000mg/L	3
silica amorphous	NOEC	72	Algae or other aquatic plants	60mg/L	1
<b>Legend:</b>	Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NI TE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data				

**DO NOT** discharge into sewer or waterways.

## 12.2. Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
polyethylene glycol	LOW	LOW
silica amorphous	LOW	LOW

## 12.3. Bioaccumulative potential

Ingredient	Bioaccumulation
polyethylene glycol	LOW (LogKOW = -1.1996)
silica amorphous	LOW (LogKOW = 0.5294)

Continued...

## INOLUB™ P402F, P412F, P502F

## 12.4. Mobility in soil

Ingredient	Mobility
polyethylene glycol	HIGH (KOC = 1)
silica amorphous	LOW (KOC = 23.74)

## 12.5. Results of PBT and vPvB assessment

	P	B	T
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

<b>Product / Packaging disposal</b>	<ul style="list-style-type: none"> <li>▶ <b>DO NOT</b> allow wash water from cleaning or process equipment to enter drains.</li> <li>▶ It may be necessary to collect all wash water for treatment before disposal.</li> <li>▶ In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.</li> <li>▶ Where in doubt contact the responsible authority.</li> </ul>
<b>Waste treatment options</b>	Not Available
<b>Sewage disposal options</b>	Not Available

## SECTION 14 TRANSPORT INFORMATION

## Labels Required

<b>Marine Pollutant</b>	NO
<b>HAZCHEM</b>	Not Applicable

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

<b>14.1. UN number</b>	Not Applicable										
<b>14.2. UN proper shipping name</b>	Not Applicable										
<b>14.3. Transport hazard class(es)</b>	<table border="0"> <tr> <td>Class</td> <td>Not Applicable</td> </tr> <tr> <td>Subrisk</td> <td>Not Applicable</td> </tr> </table>	Class	Not Applicable	Subrisk	Not Applicable						
Class	Not Applicable										
Subrisk	Not Applicable										
<b>14.4. Packing group</b>	Not Applicable										
<b>14.5. Environmental hazard</b>	Not Applicable										
<b>14.6. Special precautions for User</b>	<table border="0"> <tr> <td>Hazard identification (Kemler)</td> <td>Not Applicable</td> </tr> <tr> <td>Classification code</td> <td>Not Applicable</td> </tr> <tr> <td>Hazard Label</td> <td>Not Applicable</td> </tr> <tr> <td>Special provisions</td> <td>Not Applicable</td> </tr> <tr> <td>Limited quantity</td> <td>Not Applicable</td> </tr> </table>	Hazard identification (Kemler)	Not Applicable	Classification code	Not Applicable	Hazard Label	Not Applicable	Special provisions	Not Applicable	Limited quantity	Not Applicable
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

<b>14.1. UN number</b>	Not Applicable												
<b>14.2. UN proper shipping Name</b>	Not Applicable												
<b>14.3. Transport hazard class(es)</b>	<table border="0"> <tr> <td>ICAO/IATA Class</td> <td>Not Applicable</td> </tr> <tr> <td>ICAO / IATA Subrisk</td> <td>Not Applicable</td> </tr> <tr> <td>ERG Code</td> <td>Not Applicable</td> </tr> </table>	ICAO/IATA Class	Not Applicable	ICAO / IATA Subrisk	Not Applicable	ERG Code	Not Applicable						
ICAO/IATA Class	Not Applicable												
ICAO / IATA Subrisk	Not Applicable												
ERG Code	Not Applicable												
<b>14.4. Packing group</b>	Not Applicable												
<b>14.5. Environmental hazard</b>	Not Applicable												
<b>14.6. Special precautions for User</b>	<table border="0"> <tr> <td>Special provisions</td> <td>Not Applicable</td> </tr> <tr> <td>Cargo Only Packing Instructions</td> <td>Not Applicable</td> </tr> <tr> <td>Cargo Only Maximum Qty / Pack</td> <td>Not Applicable</td> </tr> <tr> <td>Passenger and Cargo Packing Instructions</td> <td>Not Applicable</td> </tr> <tr> <td>Passenger and Cargo Maximum Qty / Pack</td> <td>Not Applicable</td> </tr> <tr> <td>Passenger and Cargo Limited Quantity Packing Instructions</td> <td>Not Applicable</td> </tr> </table>	Special provisions	Not Applicable	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
Special provisions	Not Applicable												
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												

Continued...

## INOLUB™ P402F, P412F, P502F

Passenger and Cargo Limited Maximum Qty / Pack	Not Applicable
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**Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS**

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

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

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

**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****POLYETHYLENE GLYCOL(25322 -68-3) IS FOUND ON THE FOLLOWING REGULATORY LISTS**

EU REACH Regulation (EC) No 1907/2006 - Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles European Customs Inventory of Chemical Substances ECICS (English)	European Union - European Inventory of Existing Commercial Chemical Substances (EINECS) (English) European Union (EU) No-Longer Polymers List (NLP) (67/548/EEC)
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**VINYLDENE FLUORIDE/ HEXAFLUOROPROPENE COPOLYMER(9011-17-0) IS FOUND ON THE FOLLOWING REGULATORY LISTS**

Not Applicable

**TALC(14807-96-6) IS FOUND ON THE FOLLOWING REGULATORY LISTS**

EU REACH Regulation (EC) No 1907/2006 - Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles European Union - European Inventory of Existing Commercial Chemical Substances (EINECS) (English)	International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs UK Workplace Exposure Limits (WELs)
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**SILICA AMORPHOUS(7631-86-9) IS FOUND ON THE FOLLOWING REGULATORY LISTS**

EU European Chemicals Agency (ECHA) Community Rolling Action Plan (CoRAP) List of Substances	European Union - European Inventory of Existing Commercial Chemical Substances (EINECS) (English)
EU REACH Regulation (EC) No 1907/2006 - Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs
European Customs Inventory of Chemical Substances ECICS (English)	UK Workplace Exposure Limits (WELs)
European List of Notified Chemical Substances (ELINCS)	

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.

Continued...

## ECHA SUMMARY

Ingredient	CAS number	Index No	ECHA Dossier
polyethylene glycol	25322-68-3	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	Wng, GHS05, GHS08, Dgr	H335, H319, H336, H302, H314, H351
2	STOT SE 3, Not Classified, Eye Irrit. 2, Acute Tox. 4, Skin Irrit. 2, Skin Corr. 1B, Carc. 2	Wng, GHS05, GHS08, Dgr	H335, H319, H336, H302, H314, H351

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

Ingredient	CAS number	Index No	ECHA Dossier
vinylidene fluoride/ hexafluoropropene copolymer	9011-17-0	Not Available	Not Available

Harmonisation (C&L Inventory)	Hazard Class and Category Code(s)	Pictograms Signal Word Code(s)	Hazard Statement Code(s)
2	Aquatic Chronic 2, Not Classified	GHS09	Not Available

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

Ingredient	CAS number	Index No	ECHA Dossier
talc	14807-96-6	Not Available	Not Available

Ingredient	CAS number	Index No	ECHA Dossier
silica amorphous	7631-86-9	Not Available	01-2119486866-17-XXXX, 01-2119379499-16-XXXX

Harmonisation (C&L Inventory)	Hazard Class and Category Code(s)	Pictograms Signal Word Code(s)	Hazard Statement Code(s)
1	Not Classified	GHS06, Dgr, GHS08, Wng, GHS05, GHS02	H330, H372, H319, H335, H350, H370, H373, H351, H315, H332, H302, H312, H314, H319), H225, H304, H340, H371
2	Not Classified, Acute Tox. 2, STOT RE 1, Eye Irrit. 2, STOT SE 3, STOT RE 2, Carc. 1A, STOT SE 1, Acute Tox. 4, Skin Irrit. 2, Acute Tox. 1, STOT SE 2, Skin Corr. 1C, Flam. Liq. 2, Asp. Tox. 1, Muta. 1B, Aquatic Chronic 3, Carc. 1B	GHS06, Dgr, GHS08, Wng, GHS05, GHS02	H330, H372, H319, H335, H350, H370, H373, H351, H315, H332, H302, H312, H314, H319), H225, H304, H340, H371

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 (polyethylene glycol; talc; vinylidene fluoride/ hexafluoropropene copolymer)
China - IECSC	Y
Europe - EINEC / ELINCS / NLP	N (vinylidene fluoride/ hexafluoropropene copolymer)
Japan - ENCS	N
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)

Continued...

## SECTION 16 OTHER INFORMATION

### Full text Risk and Hazard codes

<b>H225</b>	Highly flammable liquid and vapour.
<b>H226</b>	Flammable liquid and vapour.
<b>H301</b>	Toxic if swallowed.
<b>H302</b>	Harmful if swallowed.
<b>H304</b>	May be fatal if swallowed and enters airways.
<b>H312</b>	Harmful in contact with skin.
<b>H314</b>	Causes severe skin burns and eye damage.
<b>H315</b>	Causes skin irritation.
<b>H319</b>	Causes serious eye irritation.
<b>H319)</b>	H319)
<b>H330</b>	Fatal if inhaled.
<b>H332</b>	Harmful if inhaled.
<b>H335</b>	May cause respiratory irritation.
<b>H336</b>	May cause drowsiness or dizziness.
<b>H340</b>	May cause genetic defects.
<b>H350</b>	May cause cancer.
<b>H351</b>	Suspected of causing cancer.
<b>H370</b>	Causes damage to organs.
<b>H371</b>	May cause damage to organs.
<b>H372</b>	Causes damage to organs through prolonged or repeated exposure.
<b>H373</b>	May cause damage to organs through prolonged or repeated exposure.

### Other information

#### Ingredients with multiple cas numbers

Name	CAS No
polyethylene glycol	25322-68-3, 8038-37-7, 9081-95-2, 9085-02-3, 9085-03-4, 12676-74-3, 12770-93-3, 25104-58-9, 25609-81-8, 34802-42-1, 37361-15-2, 50809-04-6, 50809-59-1, 54510-95-1, 54847-64-2, 59763-40-5, 60894-12-4, 61840-14-0, 64441-68-5, 64640-28-4, 67411-64-7, 70926-57-7, 75285-02-8, 75285-03-9, 77986-38-0, 79964-26-4, 80341-53-3, 85399-22-0, 85945-29-5, 88077-80-9, 88747-22-2, 90597-70-9, 99264-61-6, 99333-89-8, 101677-86-5, 106186-24-7, 107502-63-6, 107529-96-4, 109550-27-8, 112384-37-9, 112895-21-3, 114323-93-2, 116549-90-7, 119219-06-6, 125223-68-9, 133573-31-6, 134919-43-0, 150872-82-5, 154394-38-4, 156948-19-5, 169046-53-1, 174460-08-3, 174460-09-4, 188364-77-4, 188924-03-0, 189154-62-9, 191743-71-2, 196696-84-1, 201163-43-1, 206357-86-0
silica amorphous	7631-86-9, 112945-52-5, 67762-90-7, 68611-44-9, 68909-20-6, 112926-00-8, 61790-53-2, 60676-86-0, 91053-39-3, 69012-64-2, 844491-94-7

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.  
A list of reference resources used to assist the committee may be found at: [www.chemwatch.net](http://www.chemwatch.net)

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: BioConcentration Factors
- BEI: Biological Exposure Index

**INOLUB™ P402F, P412F, P502F**

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