

Tef-Gel TEF-GEL PTY LTD Chemwatch: 5154-51

Version No: 3.1.1.1 Safety Data Sheet according to WHS and ADG requirements Chemwatch Hazard Alert Code: 1

Issue Date: 05/09/2019 Print Date: 08/09/2019 S.GHS.AUS.EN

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

Product Identifier		
Product name	Tef-Gel™	
Other means of identification	Not Available	
Relevant identified uses	of the substance or mixture and uses advised against	
Relevant identified uses	Anti corrosive lubricant	
Details of the supplier of	the safety data sheet	
Registered company name	TEF-GEL PTY LTD	
Address	450 STRATHDICKIE ROAD, STRATHDICKIE QLD 4800 Australia	
Telephone	+61 7 4946 5430	
Fax	N/A	
Website	www.tefgel.com.au	
Email	info@tefgel.com.au	
Emergency telephone nu	imber	
Association / Organisation	TEF-GEL PTY LTD	
Emergency telephone numbers	0417 734 154 Mon-Fri 9am to 6pm Warwick Jonasen	
Other emergency telephone numbers	Not Available	
SECTION 2 HAZARDS ID	ENTIFICATION	

Classification of the substance or mixture

NON-HAZARDOUS CHEMICAL. NON-DANGEROUS GOODS. According to the WHS Regulations and the ADG Code.

Poisons Schedule	Not Applicable
Classification	Not Applicable

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	Hazard pictogram(s)	Not Applicable		
	SIGNAL WORD	NOT APPLICABLE		

Hazard statement(s)

Not Applicable

Precautionary statement(s) Prevention

Not Applicable

Precautionary statement(s) Response

Not Applicable

Precautionary statement(s) Storage

Not Applicable

Precautionary statement(s) Disposal

Not Applicable

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
9002-84-0	40	polytetrafluoroethylene
Not Available	60	Ingredients determined not to be hazardous
SECTION 4 FIRST AID MEASURES		

Description of first aid measures If this product comes in contact with the eyes: Wash out immediately with fresh running water. Ensure complete irrigation of the eye by keeping eyelids apart and away files.

Eye Contact	Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.
	► Seek medical attention without delay; if pain persists or recurs seek medical attention.
	▶ Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
	If skin or hair contact occurs:
Skin Contact	▶ Flush skin and hair with running water (and soap if available).
Skin Contact	▶ Seek medical attention in event of irritation.
	If failure/misuse of high pressure/hydraulic equipment results in injection of grease/oil through the skin seek urgent medical attention. Treat as surgical emergency.
	If tumes or combustion products are inhaled remove from contaminated area.
	► Lay patient down. Keep warm and rested.
Inhalation	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.

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Ingest	 If swallowed do NOT induce vomiting. If vomiting occurs, lean patient forward or place on left side (head-down position, i aspiration. Observe the patient carefully. Never give liquid to a person showing signs of being sleepy or with reduced aware Give water to rinse out mouth, then provide liquid slowly and as much as casualty 	if possible) to maintain open airway and prevent eness; i.e. becoming unconscious.
	Seek medical advice.	

Indication of any immediate medical attention and special treatment needed

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)

SECTION 5 FIREFIGHTING MEASURES Extinguishing media

▶ Foam.

- Dry chemical powder.
- BCF (where regulations permit).
- Carbon dioxide.
- Water spray or fog Large fires only.

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		
Advice for firefighters			
Fire Fighting	 Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves. Prevent, by any means available, spillage from entering drains or water course. Use water delivered as a fine spray to control fire and cool adjacent area. Avoid spraying water onto liquid pools. Do not approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire. 		
Fire/Explosion Hazard	 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. The material is not readily combustible under normal conditions. However, it will break down under fire conditions and the organic component may burn. Not considered to be a significant fire risk. Heat may cause expansion or decomposition with violent rupture of containers. Decomposes on heating and may produce toxic fumes of carbon monoxide (CO). May emit acrid smoke. Decomposes on heating and produces toxic fumes of: carbon dioxide (CO2) hydrogen fluoride other pyrolysis products typical of burning organic material. May emit corrosive fumes.		
HAZCHEM	Not Applicable		

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

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Environmental precautions

See section 12

Methods and material for containment and cleaning up

methodo ana material loi	containing and cleaning ap
	Slippery when spilt.
	► Clean up all spills immediately.
	► Avoid contact with skin and eyes.
Minor Spills	▶ Wear impervious gloves and safety goggles.
	▶ Trowel up/scrape up.
	▶ Place spilled material in clean, dry, sealed container.
	▶ Flush spill area with water.
	Slippery when spilt. Minor hazard.
	► Clear area of personnel.
	► Alert Fire Brigade and tell them location and nature of hazard.
	► Control personal contact with the substance, by using protective equipment as required.
Major Spills	▶ Prevent spillage from entering drains or water ways.
	► Contain spill with sand, earth or vermiculite.
	► Collect recoverable product into labelled containers for recycling.
	• Absorb remaining product with sand, earth or vermiculite and place in appropriate containers for disposal.
	▶ Wash area and prevent runoff into drains or waterways.
	► If contamination of drains or waterways occurs, advise emergency services.
Personal Protective Equipment a	advice is contained in Section 8 of the SDS.

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling			
Safe handling	 Limit all unnecessary personal contact. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. When handling DO NOT eat, drink or smoke. Always wash hands with soap and water after handling. Avoid physical damage to containers. Use good accurational work practice. 		
	 Ose good occupational work practice. Observe manufacturer's storage and handling recommendations contained within this SDS. 		
Other information	 Store in original containers. Keep containers securely sealed. Store in a cool, dry, well-ventilated area. Store away from incompatible materials and foodstuff containers. Protect containers against physical damage and check regularly for leaks. Observe manufacturer's storage and handling recommendations contained within this SDS. 		
Conditions for safe stora	age, including any incompatibilities		
Suitable container	 Polyethylene or polypropylene container. Packing as recommended by manufacturer. Check all containers are clearly labelled and free from leaks. 		
Storage incompatibility	Avoid storage with oxidisers		
SECTION 8 EXPOSURE	I CONTROLS / PERSONAL PROTECTION		

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OCCUPATIONAL EXPOSURE	E LIMITS (OEL)				
INGREDIENT DATA					
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		Revised	IDLH	
polytetrafluoroethylene	Not Available		Not Avai	ilable	
Exposure controls					
Appropriate engineering controls	General exhaust is adequate under normal operati	ing conditions.			
Personal protection					
Eye and face protection	 Safety glasses with side shields; or as required, 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. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent] 				
Skin protection	See Hand protection below				
Hands/feet protection	 Wear chemical protective gloves, e.g. PVC. Wear safety footwear or safety gumboots, e.g. 	Rubber			
Body protection	See Other protection below				
Other protection	 Overalls. P.V.C. apron. Barrier cream. Skin cleansing cream. Eye wash unit. 				

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	White gel; does not mix with water.		
Physical state	Gel	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 Applicable	Decomposition temperature	>260

Tef-Gel Page 6 of 11 Issue Date: 05/09/2019 Chemwatch: 5154-51 Version No: 3.1.1.1 Print Date: 08/09/2019 Melting point / freezing point (°C) >260 Viscosity (cSt) Not Available Initial boiling point and boiling range (°C) Not Applicable Molecular weight (g/mol) Not Applicable Flash point (°C) >260 (COC) Not Available Taste **Evaporation rate** Not Applicable **Explosive properties** Not Available Flammability Not Applicable **Oxidising properties** Not Available Upper Explosive Limit Surface Tension (dyn/cm or Not Available Not Available mN/m) (%) Lower Explosive Limit Volatile Component Not Available Not Available (%) (%vol) Vapour pressure (kPa) Negligible Gas group Not Available Solubility in water Immiscible pH as a solution (1%) Not Applicable Vapour density (Air = 1) Not Available VOC g/L Not Applicable

SECTION 10 STABILITY AND REACTIVITY

Reactivity	See section 7
Chemical stability	 Unstable in the presence of incompatible materials. Product is considered stable. Hazardous polymerisation will not occur.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

SECTION 11 TOXICOLOGICAL INFORMATION

Information on toxicological effects

Inhaled	Not normally a hazard due to non-volatile nature of product 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).	
Ingestion	The material has NOT 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.	
Skin Contact	Prolonged or repeated contact with skin may cause irritation. 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.	
Eye	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).	
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 minimised as a matter of course.	
Tef-Gel	TOXICITY IRRITATION Not Available Not Available	

Tef-Gel Page 7 of 11 Chemwatch: 5154-51 Issue Date: 05/09/2019 Version No: 3.1.1.1 Print Date: 08/09/2019 TOXICITY IRRITATION polytetrafluoroethylene Oral (rat) LD50: 1250 mg/kg^[2] 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 Skin Irritation/Corrosion Reproductivity × × Serious Eye Damage/Irritation STOT - Single Exposure × STOT - Repeated Respiratory or Skin sensitisation x × Exposure Mutagenicity Aspiration Hazard Legend: X – Data either not available or does not fill the criteria for classification Data available to make classification

SECTION 12 ECOLOGICAL INFORMATION



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Legend:

nd: 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.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
polytetrafluoroethylene	HIGH	HIGH
Bioaccumulative potential		
Ingredient	Bioaccumulation	
polytetrafluoroethylene	LOW (LogKOW = 1.2142)	

Mobility in soil

Ingredient	Mobility
polytetrafluoroethylene	LOW (KOC = 106.8)
SECTION 13 DISPOSAL CONSIDERATIONS	

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment method	S
Product / Packaging disposal	 Recycle wherever possible or consult manufacturer for recycling options. Consult State Land Waste Management Authority for disposal. Bury residue in an authorised landfill. Recycle containers if possible, or dispose of in an authorised landfill.
SECTION 14 TRANSPOR	T INFORMATION

Labels Required

Marine Pollutant	NO
HAZCHEM	Not Applicable

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

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

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

Transport in bulk according to Annex II of MARPOL and the IBC code Not Applicable

SECTION 15 REGULATORY INFORMATION

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

POLYTETRAFLUOROETHYLENE IS FOUND ON THE FOLLOWING REGULATORY LISTS

 Australia Inventory of Chemical Substances (AICS)
 International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

 National Inventory Status
 Status

 Australia - AICS
 Yes

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Canada - DSL	Yes	
Canada - NDSL	No (polytetrafluoroethylene)	
China - IECSC	Yes	
Europe - EINEC / ELINCS / NLP	No (polytetrafluoroethylene)	
Japan - ENCS	Yes	
Korea - KECI	Yes	
New Zealand - NZIoC	Yes	
Philippines - PICCS	Yes	
USA - TSCA	Yes	
Taiwan - TCSI	Yes	
Mexico - INSQ	Yes	
Vietnam - NCI	Yes	

SECTION 16 OTHER INFORMATION

Revision Date	05/09/2019
Initial Date	23/10/2014

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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