TECTALOY UNLMTD COOLANT CONCENTRATE GREEN ITW POLYMERS & FLUIDS

Chemwatch: 5442-43

Safety Data Sheet according to WHS Regulations (Hazardous Chemicals) Amendment 2020 and ADG requirements

Issue Date: 11/12/2020
Print Date: 26/08/2022
Initial Date: 01/12/2020
S.GHS.AUS.EN

SECTION 1 Identification of the substance / mixture and of the company / undertaking

Product Identifier

| Product name | TECTALOY UNLMTD COOLANT CONCENTRATE GREEN | |
|----------------------------------|---|--|
| Chemical Name | lot Applicable | |
| Synonyms | TUG5L , TUG1L | |
| Chemical formula | Not Applicable | |
| Other means of identification | Not Available | |

Relevant identified uses of the substance or mixture and uses advised against

| Relevant identified uses | Radiator coolant concentrate. |
|--------------------------|---|
| | Use according to manufacturer's directions. |

Details of the supplier of the safety data sheet

| Registered company name | ITW POLYMERS & FLUIDS | |
|-------------------------|---|--|
| Address | 100 Hassall Street, Wetherill Park Not Available 2164 NSW Australia | |
| Telephone | +61 2 9757 8800 | |
| Fax | Not Available | |
| Website | www.itwpf.com.au | |
| Email | Not Available | |

Emergency telephone number

| Association / Organisation | CHEMWATCH EMERGENCY RESPONSE | |
|-----------------------------------|------------------------------|--|
| Emergency telephone numbers | 61 1800 951 288 | |
| Other emergency telephone numbers | +61 3 9573 3188 | |

CHEMWATCH EMERGENCY RESPONSE

| Primary Number | Alternative Number 1 | Alternative Number 2 |
|------------------|----------------------|----------------------|
| +61 1800 951 288 | +61 3 9573 3188 | Not Available |

Once connected and if the message is not in your preferred language then please dial 01

SECTION 2 Hazards identification

Classification of the substance or mixture

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

| Poisons Schedule | S5 |
|--------------------|--|
| Classification [1] | Serious Eye Damage/Eye Irritation Category 2B, Specific Target Organ Toxicity - Repeated Exposure Category 2, Acute Toxicity (Oral) Category 4 |
| Legend: | 1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI |

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Label elements

Hazard pictogram(s)





Signal word

Warning

Hazard statement(s)

| H320 | Causes eye irritation. | |
|------|--|--|
| H373 | May cause damage to organs through prolonged or repeated exposure. | |
| H302 | Harmful if swallowed. | |

Precautionary statement(s) Prevention

| P260 | Do not breathe mist/vapours/spray. | |
|--|---|--|
| 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

| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. | |
|---|--|--|
| P314 | Get medical advice/attention if you feel unwell. | |
| P337+P313 | P337+P313 If eye irritation persists: Get medical advice/attention. | |
| P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor/physician/first aider if you feel unwell. | | |

Precautionary statement(s) Storage

Not Applicable

Precautionary statement(s) Disposal

| P501 | Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation. |
|------|--|
|------|--|

SECTION 3 Composition / information on ingredients

Substances

See section below for composition of Mixtures

Mixtures

| CAS No | %[weight] | Name |
|----------|-----------|--|
| 107-21-1 | >60 | ethylene glycol |
| | balance | Ingredients determined not to be hazardous |

SECTION 4 First aid measures

Description of first aid measures

| General | |
|--------------|---|
| Eye Contact | 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 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. |
| Skin Contact | If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation. |
| Inhalation | 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 |

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

Indication of any immediate medical attention and special treatment needed

Any material aspirated during vomiting may produce lung injury. Therefore emesis should not be induced mechanically or pharmacologically. Mechanical means should be used if it is considered necessary to evacuate the stomach contents; these include gastric lavage after endotracheal intubation. If spontaneous vomiting has occurred after ingestion, the patient should be monitored for difficult breathing, as adverse effects of aspiration into the lungs may be delayed up to 48 hours.

- ▶ Polyethylene glycols are generally poorly absorbed orally and are mostly unchanged by the kidney.
- Dermal absorption can occur across damaged skin (e.g. through burns) leading to increased osmolality, anion gap metabolic acidosis, elevated calcium, low ionised calcium, CNS depression and renal failure.
- Treatment consists of supportive care.

[Ellenhorn and Barceloux: Medical Toxicology]

SECTION 5 Firefighting measures

Extinguishing media ▶ Alcohol stable foam. Dry chemical powder. ▶ BCF (where regulations permit). Carbon dioxide.

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 | |

Advice for firefighters

| Fire Fighting | Alert Fire Brigade and tell them location and nature of hazard. Wear full body protective clothing with breathing apparatus. 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. |
|-----------------------|--|
| Fire/Explosion Hazard | Combustible. Slight fire hazard when exposed to heat or flame. Heating may cause expansion or decomposition leading to violent rupture of containers. On combustion, may emit toxic fumes of carbon monoxide (CO). Combustion products include: carbon dioxide (CO2) other pyrolysis products typical of burning organic material. May emit poisonous fumes. May emit corrosive fumes. |

SECTION 6 Accidental release measures

| Personal precautions, pro | Personal precautions, protective equipment and emergency procedures | | | |
|---------------------------|--|--|--|--|
| Minor Spills | Slippery when spilt. Remove all ignition sources. Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. Control personal contact with the substance, by using protective equipment. | | | |
| Major Spills | Slippery when spilt. Moderate hazard. Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. | | | |

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Wear breathing apparatus plus protective gloves.

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

SECTION 7 Handling and storage

Precautions for safe handling

Safe handling

- ▶ DO NOT allow clothing wet with material to stay in contact with 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.

Other information

Consider storage under inert gas.

- ▶ Material is hygroscopic, i.e. absorbs moisture from the air. Keep containers well sealed in storage.
- Store in original containers.
- Keep containers securely sealed.
- No smoking, naked lights or ignition sources.
- ▶ Store in a cool, dry, well-ventilated area.

Conditions for safe storage, including any incompatibilities

Suitable container

- ▶ DO NOT use aluminium or galvanised containers
- Polyethylene or polypropylene container.
- Packing as recommended by manufacturer.
- Check all containers are clearly labelled and free from leaks.

Storage incompatibility

- Avoid reaction with oxidising agents, bases and strong reducing agents.
- Avoid strong acids, acid chlorides, acid anhydrides and chloroformates.

SECTION 8 Exposure controls / personal protection

Control parameters

Occupational Exposure Limits (OEL)

INGREDIENT DATA

| Source | Ingredient | Material name | TWA | STEL | Peak | Notes |
|---------------------------------|--------------------|-------------------------------|----------------------|-----------------------|------------------|------------------|
| Australia Exposure Standards | ethylene glycol | Ethylene glycol (vapour) | 20 ppm / 52 mg/m3 | 104 mg/m3 / 40 ppm | Not Available | Not Available |
| Australia Exposure Standards | ethylene glycol | Ethylene glycol (particulate) | 10 mg/m3 | Not Available | Not Available | Not Available |

Emergency Limits

| Ingredient | Material name | TEEL-1 | TEEL-2 | TEEL-3 |
|-----------------|---------------|--------|---------|---------|
| ethylene glycol | Not Available | 30 ppm | 150 ppm | 900 ppm |

| Ingredient | Original IDLH | Revised IDLH |
|-----------------|---------------|---------------|
| ethylene glycol | Not Available | Not Available |

Exposure controls

Appropriate engineering controls

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.

Personal protection









Eye and face protection

- Safety glasses with side shields.
- Chemical goggles.

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| | 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. |
|-----------------------|---|
| Skin protection | See Hand protection below |
| Hands/feet protection | Felbow length PVC gloves 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. |
| Body protection | See Other protection below |
| Other protection | Overalls. P.V.C apron. Barrier cream. Skin cleansing cream. |
| 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)

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

| Appearance | Fluorescent green liquid with a slight odour; mixes with water. | | | | |
|--|---|--|----------------|--|--|
| | | | | | |
| Physical state | Liquid | 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 (°C) | 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 Applicable | | |
| 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 | Miscible | pH as a solution (Not Available%) | Not Available | | |
| Vapour density (Air = 1) | Not Available | VOC g/L | Not Available | | |

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 |

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Hazardous decomposition products

See section 5

SECTION 11 Toxicological information

Information on toxicological effects

There is strong evidence to suggest that this material can cause, if inhaled once, very serious, irreversible damage of organs. The material is not thought to produce respiratory irritation (as classified by EC Directives using animal models). Nevertheless inhalation of vapours, fumes or aerosols, especially for prolonged periods, may produce respiratory discomfort and occasionally, distress.

Inhaled

Inhalation of vapours may cause drowsiness and dizziness. This may be accompanied by sleepiness, reduced alertness, loss of reflexes, lack of co-ordination, and vertigo.

Inhalation of vapours or aerosols (mists, fumes), generated by the material during the course of normal handling, may produce severe damage to the health of the individual. Relatively small amounts absorbed through the lungs may prove fatal. Aliphatic alcohols with more than 3-carbons cause headache, dizziness, drowsiness, muscle weakness and delirium, central depression, coma, seizures and behavioural changes. Secondary respiratory depression and failure, as well as low blood pressure and irregular heart rhythms, may follow.

Ingestion

Accidental ingestion of the material may be harmful; animal experiments indicate that ingestion of less than 150 gram may be fatal or may produce serious damage to the health of the individual.

There is strong evidence to suggest that this material can cause, if swallowed once, very serious, irreversible damage of organs. If swallowed, the toxic effects of glycols (dihydric alcohols) are similar to those of alcohol, with depression of the central nervous system, nausea, vomiting, and degenerative changes in the liver and kidney.

Overexposure to non-ring alcohols causes nervous system symptoms. These include headache, muscle weakness and inco-ordination, giddiness, confusion, delirium and coma.

For ethylene glycol:

Symptoms following swallowing ethylene glycol include failure of breathing, central nervous system depression, cardiovascular collapse, lung swelling, acute kidney failure, and even brain damage. Swallowing 100 millilitres has caused death.

There are three stages of ethylene glycol poisoning. The severity of each stage depends upon the amount of ethylene glycol swallowed.

There is strong evidence to suggest that this material, on a single contact with skin, can cause very serious, irreversible damage of organs. Repeated exposure may cause skin cracking, flaking or drying following normal handling and use.

Most liquid alcohols appear to act as primary skin irritants in humans. Significant percutaneous absorption occurs in rabbits but not apparently in man.

Skin Contact

Open cuts, abraded or irritated skin should not be exposed to this material

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.

There is some evidence to suggest that the material may cause mild but significant inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterised by redness, swelling and blistering.

Eve

There is some evidence that material may produce eye irritation in some persons and produce eye damage 24 hours or more after instillation. Moderate inflammation may be expected with redness; conjunctivitis may occur with prolonged exposure.

Toxic: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed. This material can cause serious damage if one is exposed to it for long periods. It can be assumed that it contains a substance which can produce severe defects.

Chronic

Ample evidence exists from experimentation that reduced human fertility is directly caused by exposure to the material.

Ample evidence exists, from results in experimentation, that developmental disorders are directly caused by human exposure to the material

Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.

Exposure to ethylene glycol over a period of several weeks may cause throat irritation, mild headache and low backache. These may worsen with increasing concentration of the substance. They may progress to a burning sensation in the throat, a burning cough, and drowsiness.

| TECTALOY UNLMTD COOLANT CONCENTRATE GREEN | TOXICITY | IRRITATION |
|---|----------|------------|
| TECTALOY UNLMTD COOLANT CONCENTRATE GREEN | TOXICITY | IRRITATION |

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

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[Estimated Lethal Dose (human) 100 ml; RTECS quoted by Orica] Substance is reproductive effector in rats (birth defects). Mutagenic to rat cells. For ethylene glycol:

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Ethylene glycol is quickly and extensively absorbed throughout the gastrointestinal tract. Limited information suggests that it is also absorbed through the airways; absorption through skin is apparently slow. Following absorption, it is distributed throughout the body. In humans, it is initially metabolized by alcohol dehydrogenase to form glycoaldehyde, which is rapidly converted to glycolic acid and glyoxal.

| Acute Toxicity | ~ | Carcinogenicity | × |
|-----------------------------------|----------|--------------------------|---|
| Skin Irritation/Corrosion | × | Reproductivity | × |
| Serious Eye Damage/Irritation | ~ | STOT - Single Exposure | × |
| Respiratory or Skin sensitisation | × | STOT - Repeated Exposure | • |
| Mutagenicity | × | Aspiration Hazard | × |

Legend:

✓ – Data available to make classification

💢 – Data available but does not fill the criteria for classification

N - Data Not Available to make classification

SECTION 12 Ecological information

Toxicity

Not Available

| Ingredient | Endpoint | Test Duration (hr) | Effect | Value | Species | BCF |
|---|---------------|--------------------|---------------|---------------|---------------|---------------|
| TECTALOY UNLMTD COOLANT CONCENTRATE GREEN | Not Available | Not Available | Not Available | Not Available | Not Available | Not Available |
| TECTALOY UNLMTD COOLANT CONCENTRATE GREEN | Not Available | Not Available | Not Available | Not Available | Not Available | Not Available |

For Ethylene Glycol: Log Kow: -1.93 to -1.36; Half-life (hr) air: 24 hrs; Henry s Law Constant: 1.41 10-3 or 6.08 10-3 Pa.m3/mol, (depending on method of calculation); Henry's atm m3 /mol: 2.3x10 atm-m/mol; Vapor Pressure: 7.9 Pa @ 20 C; BOD 5: 0.15 to 0.81, 12%; COD: 1.21 to 1.29; ThOD: 1.26; BCF: 10 to190. Atmospheric Fate: In the atmosphere, ethylene glycol exists mainly in the vapor phase. It is degraded by reactions with hydroxyl radicals, (estimated half-life 24-50 hours). Direct breakdown of the substance by sunlight is not expected.

DO NOT discharge into sewer or waterways.

Persistence and degradability

| Ingredient | Persistence: Water/Soil | Persistence: Air |
|-----------------|---------------------------|-----------------------------|
| ethylene glycol | LOW (Half-life = 24 days) | LOW (Half-life = 3.46 days) |

Bioaccumulative potential

| Ingredient | Bioaccumulation |
|-----------------|-----------------|
| ethylene glycol | LOW (BCF = 200) |

Mobility in soil

| Ingredient | Mobility |
|-----------------|----------------|
| ethylene glycol | HIGH (KOC = 1) |

SECTION 13 Disposal considerations

Waste treatment methods

Product / Packaging

disposal

- ▶ Containers may still present a chemical hazard/ danger when empty.
- ▶ Return to supplier for reuse/ recycling if possible.

Otherwise:

If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill.

Where possible retain label warnings and SDS and observe all notices pertaining to the product.

Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.

A Hierarchy of Controls seems to be common - the user should investigate:

- Reduction
- Reuse

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- ▶ Recycling
- ► Disposal (if all else fails)

This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use.

- 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.

SECTION 14 Transport information

Labels Required

| Marine Pollutant | NO |
|------------------|----------------|
| | Not Applicable |
| HAZCHEM | Not Applicable |

Land transport (Not Applicable)

Air transport (ICAO-IATA / DGR)

Sea transport (IMDG-Code / GGVSee)

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

| Source | Ingredient | Pollution Category |
|---------------|---|--------------------|
| Not Available | TECTALOY UNLMTD COOLANT CONCENTRATE GREEN | Not Available |

SECTION 15 Regulatory information

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

ethylene glycol(107-21-1) is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 6

Australian Inventory of Industrial Chemicals (AIIC)

Chemical Footprint Project - Chemicals of High Concern List

| National Inventory | Status |
|----------------------------------|--|
| Australia - AIIC | |
| Canada - DSL | Yes |
| Canada - NDSL | No (ethylene glycol) |
| China - IECSC | Yes |
| Europe - EINEC / ELINCS / NLP | Yes |
| Japan - ENCS | Yes |
| Korea - KECI | Yes |
| New Zealand - NZIoC | Yes |
| Philippines - PICCS | Yes |
| USA - TSCA | Yes |
| Legend: | Y = All ingredients are on the inventory |

SECTION 16 Other information

Other information

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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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