Safety Data Sheet

GHS7 Hazardous, Non-Dangerous Goods

SECTION 1 – STATEMENT OF CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name:	**Tuff Auto and Outdoor Degreaser RTU**		
Synonyms:	**505**		
Product Code:	**505**		
SUPPLIER:	Penrite Oil Company Pty Ltd		
ADDRESS:	**Australia:** 110-116 Greens Road Dandenong South VIC 3175 **New Zealand:** 75 Lady Ruby Drive East Tamaki Auckland 2013		
TELEPHONE:	Australia: 1300 736 748; New Zealand: 0800 533 698	**FAX:**	Australia: 1800 736 748; New Zealand: 0800 533 698
EMERGENCY PHONE:	Australia: 1300 736 748; New Zealand: 0800 533 698	**ABN:**	25 005 001 525
Substance:	Water based cleaner	**Product Use:**	Degreaser – Ready to use strength.
Creation Date:	September 2021	**Revision Date:**	September 2026
HSNO Approval Number:	HSR002530	**HSNO GROUP TITLE:**	Cleaning Products (Subsidiary Hazard) Group Standard 2020.
HS CODE:	2710.19.83 00	**Email:**	tech@penriteoil.com (Aust and NZ)

SECTION 2 – HAZARDS IDENTIFICATION

Classification of the substance or mixture

Based on available information, this material is classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS7) including Work, Health and Safety regulations, Australia.

Poisons Schedule Not scheduled.

Dangerous Goods Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

GHS Classification

- Serious Eye Irritation - Category 2A

HSNO Classification

- 6.4A Substances that are irritating to the eye.

GHS Pictogram

GHS07

GHS Signal Word **WARNING**

Hazard statement(s)

H319 Causes serious eye irritation

Precautionary statement(s): General

P102 Keep out of reach of children.

P103 Read label before use.

Precautionary statement(s): Prevention

P264 Wash hands thoroughly after handling.

P280 Wear eye protection/ face protection.

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.

P337 + P313	If eye irritation persists: Get medical advice/attention.
Precautionary statement(s): Storage	
	None allocated.
Precautionary statement(s): Disposal	
P501	Dispose of contents/ container in accordance with local regulations.
Note	
IMPORTANT	This SDS and the Hazard Classifications contained therein, only apply to the product in its concentrated form, as supplied. When diluted with clean water to 1:3 or greater they no longer apply. However, good hygiene and housekeeping practices should be adhered to.

SECTION 3 – COMPOSITION AND INFORMATION ON INGREDIENTS

Ingredients:	CAS Number:	Proportion:
Natural Orange Oil (D-Limonene)	5989-27-5	< 1.0 % w/w
Disodium metasilicate	6834-92-0	< 1.0 % w/w
Sodium hydroxide	1310-73-2	< 0.2 % w/w
Alcohol Ethoxylates	68439-46-3	< 10 % w/w
Ethylene glycol monobutyl ether	111-76-2	< 10 % w/w
Alcohol Ethoxylates	68439-50-9	< 10 % w/w
Trisodium nitrilotriacetate	5064-31-3	< 1.0% w/w
Glutaraldehyde	111-30-8	< 0.05% w/w
Ingredients determined to be non-hazardous at concentrations present.	various	Balance

NOTE: Ingredients determined not to be hazardous are present in concentrations that do not exceed the relevant cut-off concentrations as found from NOHSC publication "List of Designated Hazardous Substances" or have been found NOT to meet the criteria of a hazardous substance as defined in the NOHSC publication "Approved Criteria for Classifying Hazardous Substances", or have been found NOT to meet the criteria of a dangerous substance as defined in the GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS (GHS).

SECTION 4 – FIRST AID MEASURES

Scheduled Poisons	Poisons Information Centre in each Australian State capital city or in Christchurch, New Zealand can provide additional assistance for scheduled poisons. (Phone Australia 131126 or New Zealand 0800 764 766).
First Aid Facilities Required	
	Ensure there is access to eye washes and safety showers.
Inhalation	Remove victim to fresh air away from exposure. Obtain medical attention if symptoms occur.
Skin contact	Wash skin with plenty of water. Seek medical advice (e.g. doctor) if irritation, burning or redness develops. Seek medical advice (e.g. doctor).
Eye contact	If in eyes, hold eyelids apart and flush the eyes continuously with running water. Remove contact lenses. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. If eye irritation persists: Get medical advice/attention.
Ingestion	Do NOT induce vomiting. Do NOT attempt to give anything by mouth to an unconscious person. Rinse mouth thoroughly with water immediately. Give water to drink. If vomiting occurs, give further water to achieve effective dilution. Seek urgent medical advice (e.g. doctor).
Advice to Doctor	Treat symptomatically. All treatments should be based on observed signs and symptoms of distress of the patient. Poisons Information Centre in each Australian State capital city or in Christchurch, New Zealand can provide additional assistance for scheduled poisons.

SECTION 5 – FIRE FIGHTING MEASURES

Fire and Explosion Hazards	Non flammable.
Extinguishing Media	Use an extinguishing media suitable for surrounding fires.
Fire Fighting	Keep containers exposed to extreme heat cool with water spray. Fire fighters to wear self-contained breathing apparatus if risk of exposure to products of combustion or decomposition.
Flash Point	Non combustible

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Emergency Procedures	Shut off engine and electrical equipment and leave off. Move people from immediate area; keep upwind. Wear appropriate personal protective equipment and clothing to prevent exposure. Stop leak if safe to do so. Send messenger to notify fire brigade and police. Tell them location, material quantity, emergency contact. Indicate condition of vehicle and damage or injuries observed. Warn other traffic.
Occupational Release	Minor spills do not normally need any special clean-up measures. Rinse with water. In the event of a major spill, prevent spillage from entering drains or water courses. Wear appropriate protective equipment as in section 8 below to prevent skin and eye contamination. Spilt material may result in a slip hazard and should be absorbed into dry, inert material (e.g. sand, earth or vermiculite), which then can be put into appropriately labelled drums for disposal by an approved agent according to local conditions. Residual deposits will remain slippery. Wash area down with excess water. If required, neutralize with citric acid or acetic acid. If contamination of sewers or waterways has occurred advise the local emergency services. In the event of a large spillage notify the local environment protection authority or emergency services.

SECTION 7 – HANDLING AND STORAGE

Handling	As with any chemical, avoid excessive personal contact. Wear protective clothing when risk of exposure occurs. Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke. Keep containers closed at all times. Avoid physical damage to containers. Always wash hands with water after handling. Work clothes should be laundered. Launder contaminated clothing before re-use.
Storage	Store in a cool, dry, place with good ventilation. Avoid storing in aluminium and light alloy containers. Store away from acids. Keep containers closed at all times – check regularly for leaks

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

Control parameters

Occupational Exposure Limits

National Occupational Exposure Limits, as published by National Occupational Health & Safety Commission:

Time-weighted Average (TWA): None established for product.

For ingredients:

- **Sodium hydroxide: 2 mg/m3 Peak limitation**
- **Ethylene glycol monobutyl ether: 20ppm, (96.9 mg/m3)**
- **Glutaraldehyde: 0.1 ppm Peak limitation, 0.41mg/m3 Peak limitation**

Short Term Exposure Limit (STEL): None established for product.

For ingredient:

- **Ethylene glycol monobutyl ether: 50 ppm, (242 mg/m3)**

Control parameters

Biological Limits No biological limits allocated.

PERSONAL PROTECTION PPE

Ventilation Use only in a well-ventilated area. Ensure ventilation is adequate to maintain air concentrations below exposure standards.

Personal Protective Equipment Use good occupational work practice.
The use of protective clothing and equipment depends upon the degree and nature of exposure. Final choice of appropriate protection will vary according to individual circumstances i.e. methods of handling or engineering controls and according to risk assessments undertaken.
The following protective equipment should be available;

Eye Protection

The use of safety glasses with side shield protection, goggles or face shield is recommended to handle in quantity, cleaning up spills, decanting, etc. Contact lenses pose a special hazard; soft lenses may absorb irritants and all lenses concentrate them.

Skin Protection Not required for normal cleaning operations as per label directions.

Overalls, apron, work boots and elbow length gloves are recommended for handling the concentrated product (as per AS/NZS 2161, or as recommended by supplier) to handle in quantity, cleaning up spills, decanting, etc.

Protective Material Types Material suitable for detergent contact – Butyl rubber, Natural Latex, Neoprene, PVC, and Nitrile.

Respirator Not required for normal cleaning operations with adequate ventilation.

If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable dust/particulate filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements. Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid	**Colour**	Red
Odour	Characteristic citrus	**Specific Gravity**	1.01 – 1.02 @ 25 ºC
Boiling Point	Not relevant	**Freezing Point**	Not relevant
Vapour Pressure	Not available	**Vapour Density**	Not available
Flash Point	Not flammable	**Flammable Limits**	None
Water Solubility	Miscible in all proportions	**pH**	~ 11.35 (neat)
Volatile Organic Compounds (VOC)	<5 % v/v	**Coefficient of Water/Oil Distribution**	Not available
Viscosity	Not available	**Odour Threshold**	Not available
Evaporation Rate	Not available	**Per Cent Volatile**	Not available

SECTION 10 – STABILITY AND REACTIVITY

Reactivity Stable at normal temperatures and pressure.

Chemical stability Stable under normal ambient and anticipated storage and handling conditions of

	temperature and pressure.
Conditions to avoid	Avoid contact with heat or heat sources. Acids.
Incompatible materials	Oxidising agents.
Hazardous decomposition products	Product can decompose on combustion (burning) to form Carbon Monoxide, Carbon Dioxide, and other possibly toxic gases and vapours.
Hazardous Reactions	None known.

SECTION 11 – TOXICOLOGICAL INFORMATION

POTENTIAL HEALTH EFFECTS

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Inhaled	Inhalation over exposure may result in mucous membrane irritation of the respiratory tract and coughing.
Ingestion	Ingestion may result in irritation to the mouth and throat, nausea, vomiting.
Skin Contact	Skin contact may result in irritation, redness, rash, dermatitis. Severity depends on the concentration and duration of exposure.
Eye	Concentrated product causes eye irritation. Eye contact with concentrate will cause stinging, blurring, tearing.
Chronic exposure	People previously sensitised to Glutaraldehyde should avoid using this product.
Toxicology Information	Not toxic, based on ingredients. Oral LD50 (ATE calculated): >20,000 mg/kg
Carcinogen Status	
NOHSC	Trisodium nitrilotriacetate (Cas Number: 5064-31-3) classified as Category 2 carcinogen.
NTP	No significant ingredient is classified as carcinogenic by NTP.
IARC	No significant ingredient is classified as carcinogenic by IARC.
Respiratory sensitisation	Not expected to be a respiratory sensitizer.
Skin Sensitisation	Not expected to be a skin sensitizer.
Germ cell mutagenicity	Not considered to be a mutagenic hazard.
Reproductive Toxicity	Not considered to be toxic to reproduction.
STOT-single exposure	Not expected to cause toxicity to a specific target organ.
STOT-repeated exposure	Not expected to cause toxicity to a specific target organ.
Aspiration Hazard	Not expected to be an aspiration hazard.

SECTION 12 – ECOLOGICAL INFORMATION

Acute Aquatic Toxicity	
Product (as sold)	Acute Aquatic Toxicity Category 3 H402 - Harmful to aquatic life. (LC50 >10 mg/L, but < 100mg/L) Acute Aquatic Toxicity (ATE Calculated) LC50 fish: 50 - 80 mg/L.
Product (at use dilution)	Acute Aquatic Toxicity NOT HAZARDOUS Not harmful to aquatic life. LC50 > 100mg/L. Acute Aquatic Toxicity (ATE Calculated) LC50: 5000 - 8000 mg/L.
Chronic Aquatic Toxicity	
Persistence and degradability	Readily Biodegradable, based on ingredients.
Bio accumulative potential	No bioaccumulation is expected.
Mobility in soil	Due to its physico-chemical characteristics, highly mobile in the environment and will partition to the aquatic compartment.

Other adverse effects	Not available
Environmental Protection	Do not discharge this material into waterways.

SECTION 13 – DISPOSAL CONSIDERATIONS

Product and Packaging Disposal	Dispose of contents/container to chemical landfill. Consult local or regional waste management authority for further details.

SECTION 14 – TRANSPORT INFORMATION

IMDG Marine Pollutant:	No
HAZCHEM:	None allocated.
Land Transport (ADG):	Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".
MARINE TRANSPORT:	Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.
AIR TRANSPORT:	Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

SECTION 15 – REGULATORY INFORMATION

Montreal Protocol (Ozone depleting substances).	Not applicable.
The Stockholm Convention (Persistent Organic Pollutants).	Not applicable.
The Rotterdam Convention (Prior Informed Consent).	Not applicable.
Basel Convention (Hazardous Waste).	Not applicable.
INTERNATIONAL CONVENTION FOR THE PREVENTION OF POLLUTION FROM SHIPS (MARPOL):	Not applicable.
Poison Schedules:	Not scheduled.
AICS	All components of this product are listed on or exempt from the Australian Inventory of Chemical Substances (AICS).
NZIoC (New Zealand Inventory of Chemicals):	All components of this product are listed on or exempt from the New Zealand Inventory of Chemical (NZIoC).
HSNO Approval Number:	Cleaning Products (Subsidiary Hazard) Group Standard 2020 - HSR002530

SECTION 16 – OTHER INFORMATION

Issue Date:	14th September 2021
Version Number:	V 2.0 First Issue – **GHS7 Classification**
Prepared by:	This Safety Data Sheet has been prepared by Tuwai Specialties on behalf of its client. tuwai.wt@bigpond.com
Abbreviations and acronyms	**ADG Code**: Australian Code for the Transport of Dangerous Goods by Road and Rail. **AICS:** Australian Inventory of Chemical Substances. **CAS Number**: Chemical Abstracts Service Registry Number. **GHS**: Globally Harmonized System of Classification and Labelling of Chemicals **HAZCHEM:** An emergency action code of numbers and letters which gives information to emergency

	services. **HCIS:** Hazardous Chemicals Information System **IARC**: International Agency for Research on Cancer. **NOHSC**: National Occupational Health and Safety Commission. **NTP**: National Toxicology Program (USA). **SDS**: Safety Data Sheet **STEL**: Short Term Exposure Limit. **SUSMP**: Standard for the Uniform Scheduling of Medicines and Poisons. **TWA**: Time Weighted Average. **UN Number**: United Nations Number.
Literature references	Preparation of Safety Data Sheets for Hazardous Chemicals – Code of Practice (Safe Work Australia). GHS Hazardous Chemical Information List (Safe Work Australia). Guidance on the Classification of Hazardous Chemicals under the WHS Regulations. Global Harmonized System of Classification and Labelling of Chemicals (GHS). "Australian Exposure Standards". Safework Australia. Australian Code For The Transport Of Dangerous Goods By Road And Rail. Standard for the Uniform Scheduling of Medicines and Poisons. Material Safety Data Sheets – individual raw materials – Suppliers. HSIS – Hazardous Substance Information System – National Safe Work Australia Data Base. HCIS – Hazardous Chemical Information System – National Safe Work Australia Data Base. HSNO Assigning a Product to a HSNO Approval May 2013 / Revised June 2014. Hazardous Substances and New Organisms Act 1996 and Regulations. Thresholds and Classifications Under the Hazardous Substances and New Organisms Act 1996 JANUARY 2012 (CONTENT AS ORIGINALLY PUBLISHED MARCH 2008) Environmental Protection Authority Te Mana Rauhi Taiao NZ.
Disclaimer	This MSDS summarizes at the date of issue our best knowledge of the health and safety hazard information of this product, and in particular how to safely handle and use this product in the workplace. Since the supplier cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this MSDS in the context of how the user intends to handle and use the product in the workplace. If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this supplier.

End of SDS