SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product Name:	**Orange Oil**
Product Use:	Washing and cleaning products (including solvent based products).
Restriction of Use in NZ:	Refer to Section 15
Manufacturer:	**Guardsman Australia Pty Ltd** 13 Columbia Way Baulkham Hills NSW, 2153 Australia
Tel:	1800 249 252
Australian Emergency No	**13 11 26 (National Poison Centre)**
New Zealand Supplier:	**Guardsman Australia Pty Ltd**
Telephone:	0800 442 343
Emergency No:	**0800 764 766 (National Poison Centre)**
Date of SDS Preparation:	19 October 2023

Section 2. Hazards Identification

Australia:
Classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia

New Zealand:
This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

EPA Approval No: Cleaning Products (subsidiary) – HSR002530

Pictograms



Signal Word: **Warning**

GHS Classification and Category	Hazard Code	Hazard Statement
Skin sensitisation Cat. 1	H317	May cause an allergic skin reaction.
Hazardous to the aquatic environment chronic Cat. 3	H412	Harmful to aquatic life with long lasting effects.

Prevention Code	Prevention Statement
P103	Read carefully and follow all instructions.
P261	Avoid breathing fumes, mist, vapours or spray.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective clothing as detailed in Section 8.

Response Code	Response Statement
P363	Wash contaminated clothing before reuse.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.

Storage Code	Storage Statement
None Allocated	

Disposal Code	Disposal Statement
P501	Dispose of according to Local Regulations or Authorities

Section 3. Composition / Information on Hazardous Ingredients

Ingredients	Wt%	CAS NUMBER.
Diethylene Glycol Monobutyl Ether	5 - 10	112-34-5
D-Limonene	0.3 - 1	5989-27-5
Poly(oxy-1-2-ethanedlyl), alpha,-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-,omega-hyydroxy-	0.1 – 0.3	104810-48-2
Poly(oxy-1-2-ethanedlyl), alpha,-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-,omega- (3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxoprop	0.1 – 0.3	104810-47-1

Section 4. First Aid Measures

Routes of Exposure:

If in Eyes — Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

If on Skin — Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before re-use.

If Swallowed — Rinse mouth with water. DO NOT induce vomiting. Never give anything by the mouth to an unconscious person. Seek medical advice if needed.

If Inhaled — Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice if breathing becomes difficult.

Most important symptoms and effects, both acute and delayed
Symptoms: May cause an allergic skin reaction.
Notes to Physician: Treat symptomatically.

Section 5. Fire Fighting Measures

Hazard Type	Non Flammable
Hazards from combustion products	Burning produces heavy smoke. Fire may produce irritating and/or toxic gases. In the event of fire and/or explosion do not breathe fumes. May cause sensitisation by skin contact.
Suitable Extinguishing media	Dry chemical, CO2, water spray or alcohol-resistant foam. Not to be used for safety reasons: Strong water jet

Precautions for firefighters and special protective clothing	Wear self-contained breathing apparatus and protective suit. Cool containers with flooding quantities of water until well after fire is out. Do not allow run-off from fire-fighting to enter drains or water courses.
HAZCHEM CODE	**Non Allocated**

Section 6. Accidental Release Measures

For HOUSEHOLD Settings:
Absorb or wipe up with absorbent (clean rag or paper towels). Dispose with general waste. Recycle container where possible.

Personal precautions for INDUSTRIAL Settings:
Avoid breathing vapours or mists. Remove all sources of ignition. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

Environmental precautions for INDUSTRIAL Settings:
Do not allow into any sewer, on the ground or into any body of water. If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations. Prevent further leakage or spillage if safe to do so. Local authorities should be advised if significant spillages cannot be contained.

Spill and Disposal procedures for INDUSTRIAL Settings:
Clean with detergents. Avoid solvent cleaners. Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Pick up and transfer to properly labelled containers. Clean contaminated surface thoroughly. Take up mechanically, placing in appropriate containers for disposal. Dispose of waste safely, refer to Section 13.

Section 7. Handling and Storage

Precautions for Handling and Storage in HOUSEHOLD Setting:
- Use as directed on product label.
- Keep out of reach of children.
- Avoid breathing fumes, mist, vapours or spray.

Precautions for Handling in INDUSTRIAL Setting:
- Read carefully and follow all instructions.
- Avoid breathing fumes, mist, vapours or spray.
- Contaminated work clothing should not be allowed out of the workplace.
- Avoid release to the environment.
- Wear protective clothing as detailed in Section 8.
- Prevent the creation of flammable or explosive concentrations of vapor in air and avoid vapor concentration higher than the occupational exposure limits.
- Operators should wear anti-static footwear and clothing and floors should be of the conducting type.
- Never use pressure to empty container.
- Vapours may form explosive mixtures with air.
- Use only with adequate ventilation.

Precautions for Storage in INDUSTRIAL Setting:
- Store away from incompatible materials listed in Section 10.
- Keep/store only in original container.
- Keep unauthorised personnel away.
- Containers that have been opened must be carefully resealed and kept upright to prevent leakage.
- Keep container tightly closed in a dry and well-ventilated place.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA ppm	TWA mg/m^3	STEL ppm	STEL mg/m^3

No ingredients have exposure limits

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. AUST: Workplace Exposure Standards For Airborne Contaminants Oct 2022. New Zealand: Workplace Exposure Standards and Biological Exposure Indices APRIL 2022 13TH EDITION.

Engineering Controls

Ensure adequate ventilation, especially in confined areas. Provide local exhaust ventilation.

Personal Protection Equipment for <u>HOUSEHOLD</u> Setting:

Eyes	None required under normal conditions.
Hands	No special equipment required for normal use but always good practice to wear gloves.
Respiratory	None required under normal conditions.

Personal Protection Equipment <u>INDUSTRIAL</u> Setting:



Eyes	Wear tight sealing safety goggles.
Hands	Wear impervious gloves.
Skin	Wear impervious protective clothing, including boots, lab coat, apron or coveralls to prevent skin contact.
Respiratory	In case of inadequate ventilation wear respiratory protection.

Section 9 Physical and Chemical Properties

Appearance	Liquid
Colour	Orange
Odour	Orange
Odour Threshold	Not available
pH	Not available
Boiling Point	Not available
Melting Point	Not available
Freezing Point	Not available
Flash Point	106°C
Flammability	Not flammable
Upper and Lower Explosive Limits	Not available
Vapour Pressure	Not available
Vapour Density	Not available
Specific Gravity	0.87
Water Solubility	Immiscible
Partition Coefficient:	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Viscosity	Not available
Particle Characteristics	Not available

Section 10. Stability and Reactivity

Stability of Substance	This material is stable when stored and used as directed.
Possibility of hazardous reactions	No known hazardous reactions.
Conditions to Avoid	Heat, flames and sparks.
Incompatible Materials	Strong oxidising agents. Acids. Aluminium. Copper.
Hazardous Decomposition Products	Carbon monoxide. Carbon dioxide (CO2).

Section 11 Toxicological Information

Acute Effects:

Swallowed	This product is not classified as acutely toxic.
Dermal	This product is not classified as acutely toxic.
Inhalation	This product is not classified as acutely toxic.
Eye	This product is not classified an eye irritant/corrosive.
Skin	May cause an allergic skin reaction.

Chronic Effects:

Carcinogenicity	This product is not suspected of causing cancer.
Reproductive Toxicity	This product is not suspected of damaging fertility or the unborn child.
Germ Cell Mutagenicity	This product is not classified as mutagenic.
Aspiration	This product is not classified as Asp Tox.
STOT/SE	This product is not classified as STOT SE.
STOT/RE	This product is not classified as STOT RE.

Component Toxicity:

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Diethylene glycol monobutyl ether	= 3384 mg/kg (Rat)	= 2700 mg/kg (Rabbit)	-
D-Limonene	= 4400 mg/kg (Rat)	> 5 g/kg (Rabbit)	-
Poly(oxy-1,2-ethanediyl), .alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-hydroxy-	-	-	-
Poly(oxy-1,2-ethanediyl), .alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxoprop	-	-	-

Section 12. Ecotoxicological Information

Harmful to aquatic life with long lasting effects.

Persistence and degradability	No data available
Bioaccumulation	No data available
Mobility in Soil	No data available
Other adverse effects	No data available

Do not allow to enter waterways.

Section 13. Disposal Considerations

Disposal Method:

Disposal should be in accordance with applicable regional, national and local laws and regulations. Contaminated Packaging Improper disposal or reuse of this container may be dangerous and illegal. S16 - Keep away from sources of ignition - No smoking.

Precautions or methods to avoid: Do not allow to enter waterways.

Section 14 Transport Information

This product is NOT classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code) (7th edition).

This product is NOT classified as a Dangerous Good for transport in NZ ; NZS 5433:2020 and SNZ HB 5433:2021

Section 15 Regulatory Information

Australia:
Classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

Not classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

New Zealand:
This substance is classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

EPA Approval Code: **Cleaning Products (subsidiary) – HSR002530**

HSW (HS) Regulations 2017 and EPA Notices	**Trigger Quantity**
Certified Handler	Not required
Location Certificate	Not required
Tracking Trigger Quantities	Not required
Signage Trigger Quantities	Not required
Emergency Response Plan	1000L
Secondary Containment	1000L
Restriction of Use	Only use for the intended purpose.

Section 16 Other Information

Glossary

EC_{50}	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
HSW	Health and Safety at Work.
LC_{50}	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD_{50}	Lethal dose to kill 50% of test animals/organisms.
LEL	Lower explosive level.
OSHA	American Occupational Safety and Health Administration.
TEL	Tolerable Exposure Limit.
TLV	Threshold Limit Value-an exposure limit set by responsible authority.
UEL	Upper Explosive Level
WES	Workplace Exposure Limit

References:
Australia:

1. Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice.
2. Standard for the Uniform Scheduling of Medicines and Poisons.
3. Australian Code for the Transport of Dangerous Goods by Road & Rail.
4. Model Work Health and Safety Regulations, Schedule 10: Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.
5. Workplace exposure standards for airborne contaminants, Safe work Australia.
6. American Conference of Industrial Hygienists (ACGIH).
7. Globally Harmonised System of classification and labelling of chemicals.

New Zealand:

1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
2. Workplace Exposure Standards and Biological Exposure Indices APRIL 2022 edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2020
5. HSW (Hazardous Substances) Regulations 2017

Disclaimer

This document has been prepared by TCC (NZ) Ltd and serves as the suppliers Safety Data Sheet ('SDS'). It is based on information concerning the product which has been provided to TCC (NZ) Ltd or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer. While TCC (NZ) have taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, TCC (NZ) Ltd accept no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS

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Please contact the Australian Manufacturer or New Zealand distributor, if further information is required.

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