Date of issue: 19 September 2023

Safety Data Sheet
PROPACLEAN SOLUTION

Classified as: Hazardous according to the EPA Hazardous Substances (Hazard Classification) Notice 2020.

Section 1: SUBSTANCE AND SUPPLIER DETAILS

Product Name: Propaclean Solution

Supplier: Wedderburn Scales Ltd
14 Vestey Drive
Mt Wellington
Auckland 1060
New Zealand

Phone: 0800 933 932

Recommended Use: Degreaser

In Case of Emergency Contact:

National Poisons Centre: 0800 764 766

Section 2: HAZARDS IDENTIFICATION

Propaclean Solution is classified as a Dangerous Good for Transport.

Propaclean Solution is classified as hazardous according to criteria in the EPA Hazardous Substances (Hazard Classification) Notice 2020.

Classified under the group standard "Cleaning Products (Flammable) Group Standard 2020"

HSNO APPROVAL NUMBER: **HSR002528**

HSNO CLASSIFICATIONS: 3.1B - Flammable liquid
6.3A – Skin irritant
6.4A – Eye irritant
6.5B - Skin sensitiser
9.1A – Very ecotoxic in the aquatic environment, acute
9.1A – Very ecotoxic in the aquatic environment, chronic

GHS Classification: Flammable liquid - Category 2
Skin irritation - Category 2
Serious eye irritation - Category 2
Skin sensitisation – Category 1
Hazardous to the aquatic environment acute – Category 1
Hazardous to the aquatic environment chronic - Category 1

Hazard Statements:

H225 Highly flammable liquid and vapour

H315 Causes skin irritation
H319 Causes serious eye irritation
H317 May cause an allergic skin reaction
H400 Very toxic to aquatic life
H410 Very toxic to aquatic life with long lasting effects

GHS Pictograms:

DANGER

PREVENTION STATEMENTS:

P210 - Keep away from open flames/hot surfaces. No smoking.
P233 - Keep container tightly closed.
P241 – Use explosion-proof electrical/ventilating/lighting equipment.
P241 – Use only non-sparking tools.
P243 – Take precautionary measures against static discharge.
P261 – Avoid breathing fumes/vapour.
P264 - Wash hands/exposed skin thoroughly after handling.
P272 – Contaminated work clothing should not be allowed out of the workplace.
P273 - Avoid release to the environment.
P280 - Wear protective gloves, protective clothing, eye protection, face protection.

RESPONSE STATEMENTS:

P312 – Call a POISON CENTER or doctor/physician if you feel unwell.
P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P333 + P313 – If skin irritation or rash occurs, get medical advice
P362 + P364 – Take off contaminated clothing and wash before reuse.
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.
P370 + P378 – In case of fire, use carbon dioxide, dry chemical, foam, water fog. Alcohol resistant foam is the preferred firefighting medium but, if it is not available, fine water spray can be used.
P391 – Collect spillage.

STORAGE:

P403 + P235 - Store in a well-ventilated place. Keep cool.

DISPOSAL:

P501 - In accordance with the EPA Hazardous Substances (Disposal) Notice 2017. Dispose of via an approved waste disposal contractor. Refer to Section 13 of this SDS.

OTHER INFORMATION:

Repeated exposure may cause skin dryness or cracking.

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Mixture: Degreaser solution

Main Component	CAS Number	Concentration (%wt)
Isopropyl Alcohol	67-63-0	> 50 - 75 %
D-Limonene	5989-27-5	20 - 40 %
Propylene glycol monobutyl ether	5131-66-8	5 – 15 %

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Section 4: FIRST AID MEASURES

Workplace Facilities Required: Eye wash and safety shower facilities are required.

If Inhaled: Remove to fresh air. Seek medical attention if symptoms persist.

In Contact with Eye: Hold eyes open, flush with water for at least 15 minutes. Seek medical attention if irritation develops and persists.

In Contact with Skin: Immediately wash skin with plenty of water, while removing contaminated clothing and shoes. Wash contaminated clothing before re-use. Seek medical attention if skin irritation develops and persists.

If Swallowed: DO NOT INDUCE VOMITING. Rinse mouth. Give small quantities of water. Never give anything by mouth to an unconscious person. Seek immediate medical attention. If vomiting occurs, keep head below hips to prevent aspiration to lungs.

Advice to Doctor: Treat symptomatically.

Section 5: FIRE FIGHTING MEASURES

Fire/Explosion Hazard: Product is flammable. Flash point approx. 3°C. Avoid exposure to open flames and hot surfaces. Vapours are heavier than air and may accumulate in low lying areas, sumps and pits creating an explosion risk.

Suitable Extinguishing Media: Use water fog, carbon dioxide, dry powder, or foam to extinguish fire. Alcohol resistant foam is the preferred extinguishing medium but if this is unavailable fine water spray can be used. Do not use a water jet.

Precautions in Connection with Fire: Containers may pressurise when heated and burst. May give off noxious fumes in a fire.

Advice for firefighters: Wear full firefighting gear and self-contained breathing apparatus.

Section 6: ACCIDENTAL RELEASE MEASURES

An emergency response plan meeting the requirements of Part 5 of the Health and Safety at Work (Hazardous Substances) Regulations 2017 is required when held in quantities greater than 100L.

Precautions:	Clear area of all unprotected personnel. Eliminate potential ignition sources. Keep unnecessary and unprotected personnel from entering area. Ventilate area if possible. Avoid release to the environment.
Suitable Protective Equipment:	Emergency responders must use personal protective equipment, including gloves, protective overalls and footwear, and safety goggles or face shield. Respiratory protection may be required where there is inadequate ventilation and a risk of high concentrations of vapours being present.
Spill or Leak Procedures.	Contain the spill and soak up with absorbent material such as sand or vermiculite. Do not use combustible material such as sawdust. Use non-sparking tools to scoop up material and place in a disposal container. Label the container for disposal. Any equipment capable of building an electrostatic charge should be electrically grounded. After spills, wash area preventing runoff from entering drains. If a significant quantity of material enters drains, advise the local Council Pollution Hotline.
Waste Disposal Methods:	Dispose of as per Section 13.
Emergency preparation:	Ensure there is appropriate and adequate personal protective equipment, trained personnel and clean up materials for management of accidental release.

Section 7: HANDLING AND STORAGE

Precautions for Safe Handling:	Avoid contact with skin and eyes. Avoid breathing fumes, vapours. Use appropriate respirator if there is a risk of inhalation and inadequate ventilation. Do not eat, drink, or smoke when using this product. Remove contaminated clothing and wash hands and face before entering eating areas.
Storage:	Keep container tightly closed. Keep away from direct sunlight in a dry, cool, and well-ventilated area. Ensure the storage area is kept clear of electrical equipment unless it is intrinsically safe.
Site Storage Requirements:	Secondary containment is required when quantities exceed 100L. The containment must be impervious to the product. Site Signage will be required when quantities exceed 100L.

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Workplace Exposure Standards (WES) NZ:	None established for the product. Product contains Isopropyl Alcohol which has the following WES: TWA 400ppm, 983mg/m^3 STEL 500ppm, 1230mg/m^3
Engineering Controls:	Eyewash facilities and safety showers should be provided in the work area where there is a risk of exposure to eyes and skin. If use generates fumes/vapours, use engineering controls such as local exhaust ventilation or process enclosures to ensure workers are not exposed to levels exceeding the exposure standards.
Personal Protective Equipment:	Avoid contact with the skin and eyes. Avoid breathing fumes/vapours.

Hand protection:	Wear chemically resistant protective gloves. PVC or rubber gloves are recommended. Refer to Australian and New Zealand Standard AS/NZS 2161 for protective gloves.
Skin and body protection:	Use protective clothing. Remove any contaminated clothing to avoid prolonged contact with the skin or prolonged exposure to vapours. Wash work clothes regularly. Refer to Australian and New Zealand Standard AS/NZS 4501 for occupational protective clothing.
Eye protection:	Use safety glasses with side shields or safety goggles to protect eyes. Alternatively, a full-face respirator may be used. Refer to AS/NZS 1336 for suitable eye and face protection.
Respiratory protection:	Respiratory protection is not normally required. However, if there is a build-up of vapours in an enclosed area then a respirator suitable for organic vapours should be used. Refer to AS/NZS 1715 and AS/NZS 1716 for suitable respiratory protection. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. A full-face respirator may be desirable to give respiratory and eye protection.
Other information:	PPE selected must be impervious to the substance. Do not eat, smoke, or drink where material is handled, processed, or stored. Wash hands carefully before eating or smoking. Handle in accordance with safe industrial hygiene practices.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Description:	Liquid	**Colour:**	Colourless
Odour:	Orange	**Odour Threshold:**	Not determined
Melting Point:	Not determined, liquid at room temperature	**Solubility:**	Water soluble
pH:	Not determined	**Boiling point:**	Approx. 85°C
Flammability:	Flammable	**Flash Point (Closed Cup):**	Approx. 3°C
UEL/LEL	Not determined	**Relative Density:**	Not determined
Vapour pressure:	Not determined	**Kinematic Viscosity:**	Not determined
Decomposition Temp:	Not determined	**Autoignition Temp:**	Not determined
Volatiles:	> 50%	**Vapour density:**	Not determined
Partition Coefficient:	Not determined	**Particle characteristics:**	Not applicable

Section 10: STABILITY AND REACTIVITY

Stability:	Stable under normal storage conditions.
Reactivity:	No adverse reactions expected under normal conditions of use.
Conditions to Avoid:	Avoid heat, direct sunlight, ignition sources.
Incompatibility:	Keep away from oxidising agents.
Decomposition:	Thermal decomposition may produce oxides of carbon.

Section 11: TOXICOLOGICAL INFORMATION

Acute Exposure

Acute Toxicity:	Not classified as acutely toxic. LD_{50} oral > 2,000 mg/kg. LD_{50} dermal > 2,000 mg/kg LC_{50} inhalation > 20 mg/L (vapour)
Inhalation:	Not expected to be a respiratory irritant under normal conditions of use.
Ingestion:	Ingesting large quantities may cause nausea, vomiting, stomach pain.
Skin Corrosion/Irritation:	Product is a skin irritant and may cause redness and itching. May also cause dryness and cracking.
Serious Eye Damage/Eye Irritation:	Product is an eye irritant and may cause redness and weeping.
Respiratory or Skin Sensitisation:	Product is a skin sensitiser and may cause an allergic skin reaction. Not expected to be a respiratory sensitiser.

Chronic Exposure:

Mutagen/Carcinogen/Reproductive Toxicant	No information available. Product is not expected to be mutagenic, carcinogenic or a reproductive toxicant.
Specific Target Organ Toxicity Single Exposure:	No information available. Not expected to be a specific target organ toxicant by single exposure.
Specific Target Organ Toxicity Repeated Exposure:	No information available. Not expected to be a specific target organ toxicant by repeated exposure.
Aspiration Hazard:	No information available. Not expected to be an aspiration hazard.
	Toxicity data is based on hazardous ingredient information and information in the EPA Chemical Classification and Identification Database.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity:	Product is very ecotoxic to aquatic life and effects may be long lasting. Avoid losses of product to the environment wherever possible.
	$LC/EC_{50} \leq 1$ mg/L, acute and chronic
Persistence/degradability:	Product is readily biodegradable.
Bioaccumulation:	No information on product. D-Limonene is bioaccumulative.
Mobility:	No information available on product.
Other adverse effects:	None identified.
Ingredients with Ecotoxic classifications:	D-Limonene is very ecotoxic to aquatic life and is bioaccumulative. Short-term toxicity for fish LC_{50} 0.7 mg/L, crustacea LC_{50} 0.4 mg/L. D-Limonene may bioconcentrate and fish and other aquatic organisms.

Section 13: DISPOSAL CONSIDERATIONS

Disposal: Consider recycling where possible. Dispose of waste product and contaminated absorbent material via an approved waste disposal contractor.

Disposal of Packaging: Dispose of packaging via an approved waste disposal contractor.

Section 14: TRANSPORT INFORMATION

Propaclean Solution is classified as a Dangerous Good for transport in accordance with NZS5433:2020, IMDG or IATA.

NZS5433:2020

UN Number:	1993
Proper Shipping Name:	Flammable Liquid, N.O.S. (Isopropyl Alcohol, Dipentene)
Class and Subsidiary Risk:	3
Packing Group:	II
Environmentally hazardous:	Yes
Hazchem Code:	2YE

IMDG:

UN Number:	1993
Proper Shipping Name:	Flammable Liquid, N.O.S. (Isopropyl Alcohol, Dipentene)
Class and Subsidiary Risk:	3
Packing Group:	II
Marine Pollutant:	Yes
EmS:	F-E, S-E

IATA:

UN Number:	1993
Proper Shipping Name:	Flammable Liquid, N.O.S. (Isopropyl Alcohol, Dipentene)
Class and Subsidiary Risk:	3
Packing Group:	II
Environmentally hazardous:	Yes

Ensure transportation methods prevent leakage from packages and collapsing loads.

Section 15: REGULATORY INFORMATION

Group Standard Allocation: Cleaning Products (Flammable) Group Standard 2020

HSNO Approval Code: HSR002528

Classifications:
Flammable liquid - Category 2
Skin irritation - Category 2
Serious eye irritation - Category 2
Skin sensitisation – Category 1
Hazardous to the aquatic environment acute – Category 1
Hazardous to the aquatic environment chronic - Category 1

NZ Inventory of Chemicals: All ingredients are listed in the NZ Inventory of Chemicals

This substance triggers:	Compliance Certificate	100L (containers > 5L), 250L (containers up to 5L)
	Secured when unattended	250L (containers > 5L), 500L (containers up to 5L)
	Emergency Response Plan	100L
	Secondary Containment	100L
	Signage	100L
	Hazardous Atmosphere Zone	100L (storage), 25L (decanting), 5L (open occasionally), 1L (open for continuous use).

This substance is not required to be Tracked. All workplace personnel handling this substance are required to be trained on the safe handling and PPE requirements for the hazards associated with this substance.

Section 16: OTHER INFORMATION

The information provided in this Safety Data Sheet relates only to the specific material designated herein. This Safety Data Sheet summarises our best knowledge of the health and safety hazard information of the product and how to safely handle the product in the workplace. Each user should read this SDS and consider the information in the context of how the product will be handled and used in the workplace including its use in conjunction with other products.

This substance is approved under HSNO for use as a degreaser. All reasonable care has been taken to ensure that the information and advice contained herein are from sources believed to be reliable and to represent the most up-to-date knowledge available at the date given in Section 16. No liability is assumed for any damages related to the use or misuse of this substance.

All chemical materials may present unknown hazards as people have varying degrees of sensitivity to chemicals. Therefore, this product should be used with caution. The information herein is given in good faith, but no warranty, express or implied is made.

SDS Issued: 19/09/2023

Supersedes: 20/08/2018

Reason for Revision: 5-year review and update in accordance with current hazardous substances legislation.

References:

EPA NZ Chemical Classification and Information Database
EPA Guide: Guide to Classifying Hazardous Substances in New Zealand, Version 1

Summary of Abbreviations: EPA – Environmental Protection Authority
GHS – Global Harmonisation System
CAS – Chemical Abstracts Service
TWA – Time Weighted Average

END OF SAFETY DATA SHEET