Safety Data Sheet

Hazardous, NON-Dangerous Goods

1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

Product name: Kemsol Oil Clean WB

Recommended use: Water Based Cleaner & Degreaser

Supplier: Chemical Solutions Limited - Kemsol
Company No.:
Street Address: 1 Freight Place
Airport Oaks
Auckland 2022
New Zealand
Telephone: (64-9) 255-5609
Facsimile: (64-9) 255-5610
Email: sales@kemsol.co.nz

Emergency Telephone number: **0800-764-766 National Poisons Centre NZ**

2. HAZARDS IDENTIFICATION

This material is hazardous according to criteria of EPA New Zealand.

EPA Group Standard: HSR002530 - Cleaning Products (Subsidiary Hazard) Group Standard

Signal Word
Danger

Hazard Classifications
6.1D - Substances that are acutely toxic - Oral
6.3A - Substances that are irritating to the skin
8.3A - Substances that are corrosive to ocular tissue

Hazard Statements

H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.

Prevention Precautionary Statements

P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves/protective clothing protective clothing, gloves and eye protection..

Response Precautionary Statements

P101	If medical advice is needed, have product container or label at hand.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P302+P352	IF ON SKIN: Wash with plenty of water .

P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P330	Rinse mouth.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P362	Take off contaminated clothing.

Storage Precautionary Statement
Not allocated

Disposal Precautionary Statement

P501	Dispose of contents/container in accordance with local, regional, national and international regulations.

DANGEROUS GOOD CLASSIFICATION

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".

3. COMPOSITION INFORMATION

CHEMICAL ENTITY	CAS NO	PROPORTION
Alcohols, C9-11, ethoxylated	68439-46-3	<10 %
Propanol, (2-methoxymethylethoxy)-	34590-94-8	<10 %
2-Propanol, 1-butoxy-	5131-66-8	<10 %
Disodiumtrioxosilicate pentahydrate	10213-79-3	<5 %
.beta.-Alanine, N-coco alkyl derivatives, sodium salts	68608-68-4	<5 %
Silicic acid, sodium salt	1344-09-8	<5 %
L-Glutamic Acid, N, N-bis(carboxymethy)-,tetrasodium salt	51981-21-6	<2 %
Ingredients determined to be Non-Hazardous		Balance
		100%

4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766).

Inhalation: Product is not hazardous by inhalation during normal use. If affected, remove patient to fresh air and keep at rest in a position comfortable for breathing.

Skin Contact: Wash with plenty of soap and water. If skin irritation or rash occurs: get medical advice. Wash contaminated clothing before re-use.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE or doctor.

Ingestion: Rinse mouth. Do NOT induce vomiting. Call a Poison Centre or doctor if you feel unwell.

PPE for First Aiders: Wear overalls, gloves, safety glasses. Available information suggests that gloves made from natural rubber, nitrile rubber, neoprene, polyvinyl chloride (PVC) should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

Notes to physician: Treat symptomatically. Can cause corneal burns.

5. FIRE FIGHTING MEASURES

Hazchem Code: Not applicable.

Suitable extinguishing media: If material is involved in a fire use water fog (or if unavailable fine water spray), alcohol resistant foam, standard foam, dry agent (carbon dioxide, dry chemical powder).

Specific hazards: Non-combustible material.

Fire fighting further advice: Not combustible, however following evaporation of aqueous component residual material can burn if ignited.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILLS
Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of vapours or dust. Wipe up with absorbent (clean rag or paper towels). Collect and seal in properly labelled containers or drums for disposal.

LARGE SPILLS
Clear area of all unprotected personnel. Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work up wind or increase ventilation. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal. If contamination of crops, sewers or waterways has occurred advise local emergency services.

Dangerous Goods - Initial Emergency Response Guide No: Not applicable

7. HANDLING AND STORAGE

Handling: Avoid eye contact and skin contact. Avoid inhalation of vapour, mist or aerosols.

Storage: Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from foodstuffs. Store away from incompatible materials described in Section 10. Store away from sources of heat and/or ignition. Keep container standing upright. Keep containers closed when not in use - check regularly for leaks.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National occupational exposure limits:

	TWA		STEL		NOTICES
	ppm	mg/m3	ppm	mg/m3	
Dipropylene glycol methyl ether	100	606	150	909	(skin)

As published by WorkSafe New Zealand.

WES-TWA (Workplace Exposure Standard - Time-weighted average). The average airborne concentration of a substance calculated over an eight-hour working day.

WES-Ceiling (Workplace Exposure Standard - Ceiling). A concentration that should not be exceeded at any time during any part of the working day.

WES-STEL (Workplace Exposure Standard - Short-term exposure limit). The 15-minute time weighted 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. Exposures at concentrations between the WES-TWA and the WES-STEL should be less than 15 minutes, should occur no more than four times per day, and there should be at least 60 minutes between successive exposures in this range.

(skin) - Skin absorption. Skin absorption–applicable to a substance that is capable of being significantly absorbed into the body through contact with the skin.

These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept too as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

If the directions for use on the product label are followed, exposure of individuals using the product should not exceed the above standard. The standard was created for workers who are routinely, potentially exposed during product manufacture.

Biological Limit Values: As per the WorkSafe New Zealand the ingredients in this material do not have a Biological Limit Allocated.

Engineering Measures: Ensure ventilation is adequate to maintain air concentrations below Exposure Standards. Use only in well ventilated areas. Use with local exhaust ventilation or while wearing appropriate respirator.

Personal Protection Equipment: OVERALLS, GLOVES, SAFETY GLASSES.

Personal protective equipment (PPE) must be suitable for the nature of the work and any hazard associated with the work as identified by the risk assessment conducted.

When handling individual retail packs no personal protection equipment is required.

Wear overalls, gloves, safety glasses. Available information suggests that gloves made from natural rubber, nitrile rubber, neoprene, polyvinyl chloride (PVC) should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

Hygiene measures: Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or smoke. Wash hands prior to eating, drinking or smoking. Avoid contact with clothing. Avoid eye contact and skin contact. Avoid inhalation of vapour, mist or aerosols. Ensure that eyewash stations and safety showers are close to the workstation location.

9. PHYSICAL AND CHEMICAL PROPERTIES

Material Family:	Aqueous Formulation
Form:	Clear Liquid
Colour:	Blue
Odour:	Slight glycol smell

Solubility in water:	Completely soluble in all proportions
Specific Gravity:	1.02
Pour Point/Range (°C):	<0
Boiling Point/Range (°C):	100
pH:	12.6 (100% solution)
Total VOC (g/Litre):	8% w/v
% Volatile by Volume:	88

(Typical values only - consult specification sheet)
N Av = Not available, N App = Not applicable

10. STABILITY AND REACTIVITY

Chemical stability: Considered stable under normal conditions.

Conditions to avoid: Avoid contamination with oxidising substances.

Incompatible materials: Oxidising substances, acids

Hazardous decomposition products: Oxides of carbon and nitrogen

Hazardous reactions: No hazardous reactions likely with normal use

11. TOXICOLOGICAL INFORMATION

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:

Acute Effects

Inhalation: Product is not hazardous by inhalation during normal use.

Skin contact: Contact with skin will result in irritation. Will have a degreasing action on the skin causing dryness and cracking.Repeated or prolonged skin contact may lead to irritant contact dermatitis. Will have a degreasing action on the skin. Repeated or prolonged skin contact may lead to irritant contact dermatitis.

Ingestion: Harmful if swallowed. Swallowing can result in nausea, vomiting, diarrhoea, and gastrointestinal irritation.

Eye contact: Causes serious eye irritation: redness, pain, and possible corneal damage.

Acute toxicity

Inhalation: This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): LC50 > 20.0 mg/L for vapours or LC50 > 5.0 mg/L for dust and mist or LC50 > 5,000 ppm gas

Skin contact: This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients): >5,000 mg/Kg bw

Ingestion: This material has been classified as a 6.1D - Substances that are acutely toxic. Acute toxicity estimate (based on ingredients): 300 - 2,000 mg/Kg bw

Corrosion/Irritancy: Eye: this material has been classified as a 8.3A - Substances that are corrosive to ocular tissue. Skin: this material has been classified as a 6.3A - Substances that are irritating to the skin.

Sensitisation: Inhalation: this material has been classified as not a respiratory sensitiser. Skin: this material has been classified as not a skin sensitiser.

Aspiration hazard: This material has been classified as non-hazardous.

Specific target organ toxicity (single exposure): This material has been classified as non-hazardous.

Chronic Toxicity

Mutagenicity: This material has been classified as non-hazardous.

Carcinogenicity: This material has been classified as non-hazardous.

Reproductive toxicity (including via lactation):

This material has been classified as non-hazardous.

Specific target organ toxicity (repeat exposure): This material has been classified as non-hazardous.

12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

Acute aquatic hazard: Is not classified as an Acute Aquatic Hazard under the criteria of HSNO or GHS.

Long-term aquatic hazard: Is not classified as an Chronic Aquatic Hazard under the criteria of HSNO or GHS.

Ecotoxicity in the soil environment: This material has been classified as non-hazardous.

Ecotoxicity to terrestrial vertebrates: This material has been classified as non-hazardous.

Ecotoxicity to terrestrial invertebrates: This material has been classified as non-hazardous.

Ecotoxicity: Harmful to terrestrial species. Non-toxic to bees. The alkalinity of the silicates will have a local effect on ecosystems sensitive to changes in pH. Soluble silicates are wholly inorganic and once diluted have no significant effect on the aquatic environment. The Alanine, N-coco alkyl and Glutamic Acid, N, N-bis(carboxymethy) ingredients are classified as HSNO Class 9.1D and amount to a total of 9%. As these are below the 25% lower limit defined as for HSNO 9.1D and GHS Aquatic Toxicity (acute) Category 4, it follows that the product is not classified as acutely or chronically toxic under HSNO or GHS. Acute toxicity data for the ingredients supports the classification for the product as a non Acute Aquatic Hazard. There is no chronic toxicity data available to us for most ingredients, so reliance is placed on the HSNO & GHS classifications for all ingredients which imply a low chronic toxicity for the product, hence a low, long term aquatic hazard.

Persistence and degradability: The product is readily biodegradable. The blue dye is not biodegradable. The silicates and water, are inorganic so they do not have a biodegradability requirement. The remaining ingredients are readily biodegradable.

Bioaccumulative potential: Risk of bioaccumulation in an aquatic species is low. The blue dye and silicates have no bioaccumulation potential. Bioconcentration potential is low for the propanol and glutamic acid derivatives is (BCF < 100 or Log Pow < 3). We do not have bioaccumulation data for the other ingredients, but given the high solubility of these, their bioaccumulation potential is low.

Mobility: Mobile in soil. May leach to groundwater. Potential for mobility in soil is very high for the two propanol derivatives. There was no information on the other ingredients so it should be assumed that product is generally mobile in the soil.

13. DISPOSAL CONSIDERATIONS

Discharge waste from the cleaning process to trade waste. Dispose of significant quantities of product in accordance with local regulations. Wash empty plastic container before recycling.

14. TRANSPORT INFORMATION

ROAD AND RAIL TRANSPORT
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.

15. REGULATORY INFORMATION

This material is not subject to the following international agreements:
Montreal Protocol (Ozone depleting substances)
The Stockholm Convention (Persistent Organic Pollutants)
The Rotterdam Convention (Prior Informed Consent)
Basel Convention (Hazardous Waste)
International Convention for the Prevention of Pollution from Ships (MARPOL)

EPA Group Standard: HSR002530 - Cleaning Products (Subsidiary Hazard) Group Standard

Approved handler	No
Location test certificate	No
Fire extinguishers	No
Signage	Yes
Emergency response	Yes
Hazardous atmosphere zone	No

16. OTHER INFORMATION

Reasons for issue:	Revised Change in Personal Protection Requirements Change in Physical Properties Minor Text Changes

This information was prepared in good faith from the best information available at the time of issue. It is based on the present level of research and to this extent we believe it is accurate. However, no guarantee of accuracy is made or implied and since conditions of use are beyond our control, all information relevant to usage is offered without warranty. The manufacturer will not be held responsible for any unauthorised use of this information or for any modified or altered versions.

If you are an employer it is your duty to tell your employees, and any others that may be affected, of any hazards described in this sheet and of any precautions that should be taken.

Safety Data Sheets are updated frequently. Please ensure you have a current copy.