

# SAFETY DATA SHEET

## SECTION 1 – IDENTIFICATION: PRODUCT IDENTIFIER/CHEMICAL IDENTITY

**1.1 PRODUCT IDENTIFIER:** Clear Screen

**1.2 PRODUCT CODE:** ADCS025, ADCS005, ADCS250

**1.3 RELEVANT IDENTIFIED USES OF THE MIXTURE AND USES ADVISED AGAINST:**  
**RELEVANT IDENTIFIED USES:** Windscreen washer bottle additive  
**RESTRICTIONS ON USE:** None known.

**1.4 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET:**  
**SUPPLIER NAME:** PENRITE OIL Company Pty Ltd (ABN: 25005 001 525),  
**ADDRESS (Australia):** 110-116 Greens Road, Dandenong South VIC, Australia, 3175  
**TELEPHONE NUMBER (Australia):** 1300 736 748; +61 3 9801 0877 (Int); Fax: 1800 736 748

**ADDRESS (New Zealand):** 75 Lady Ruby Drive, East Tamaki, Auckland, New Zealand, 2013  
**TELEPHONE NUMBER (New Zealand):** 0800 533 698; Fax: 0800 533 698  
**E-MAIL:** [tech@penriteoil.com](mailto:tech@penriteoil.com) (Aust and NZ)

**1.5 EMERGENCY TEL. NUMBER:** Australia: 1300 736 748; New Zealand: 0800 533 698  
(Poisons Information Centre (Aust 131 126; NZ 0800 764 766))

**1.6 HSNO DETAILS:**  
**HSNO APPROVAL NUMBER:** HSR002525  
**HSNO GROUP TITLE:** Cleaning Products (Combustible) Group Standard 2006.

## SECTION 2 – HAZARD(S) IDENTIFICATION

### 2.1 CLASSIFICATION OF THE HAZARDOUS CHEMICAL:

#### GHS CLASSIFICATION HAZARD

**CLASS & CATEGORY:** Under the Model Work Health and Safety Regulations the product would be rated as hazardous:  
Flammable Liquids - Category 4  
Serious Eye Damage/Irritation - Category 2A

### 2.2 LABEL ELEMENTS INCLUDING PRECAUTIONARY STATEMENTS:

**SIGNAL WORD:** Warning

**PICTOGRAMS:**



**HAZARD STATEMENTS:** H227 - Combustible liquid.  
H319 - Causes serious eye irritation.

#### PRECAUTIONARY STATEMENTS:

**PREVENTION:** P102 - Keep out of reach of children.  
P103 - Read label before use.  
P210 - Keep away from flames and hot surfaces - No smoking.  
P264 - Wash hands thoroughly after handling.  
P280 - Wear protective gloves/eye protection/face protection.

**RESPONSE:** P101 - If medical advice is needed, have product container or label at hand.  
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.  
P370+P378 - In case of fire: Use carbon dioxide, alcohol resistant foam, dry chemical or water spray for extinction.

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

**DISPOSAL:** P501 - Dispose of contents/container in accordance with local regulations.

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## SECTION 2 – HAZARD(S) IDENTIFICATION Continued

**2.3 OTHER HAZARDS:** The mixture has a moderate order of toxicity associated with it. The product may be mildly irritating to the respiratory system and skin. The product will potentially form flammable/explosive mixtures in air. There may be static discharge issues with the product in large scale operations that could lead to a fire. As for all chemical products, persons should not expose open wounds, cuts, abrasions or irritated skin to this material.

## SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	Concentration % W/W	GHS Classification*
2-Propanol, 1-methoxy-	107-98-2	5% - 10%	Flam Liq 3 - H226 STOT SE 3 - H336
Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-hydroxy-, C12-14-alkyl ethers, sodium salts	68891-38-3	5% - 7%	Skin Irrit 2 - H315 Eye Dam 1 - H318 Chron Aq Tox 3 - H412
C10-16 Alkyl a(+b) D-mono and oligoglucopyranosides	110615-47-9	< 3%	Skin Irrit 2 - H315 Eye Dam 1 - H318
D-Glucose, decyl octyl ethers, oligomeric	68515-73-1	< 3%	Eye Dam 1 - H318 Chron Aq Tox 3 - H412
Ethanol	64-17-5	< 2%	Flam Liq 2 - H225 Eye Irrit 2A - H319
Butanedioic acid, sulfo-, 1,4-bis(2-ethylhexyl) ester, sodium salt	577-11-7	< 1.3%	Skin Irrit 2 - H315 Eye Dam 1 - H318
Other non-hazardous ingredients	-	To 100%	Not Applic
Not Applic = Not Applicable	* Please see Section 15 of this SDS for full text description of the Label Elements.		

## SECTION 4 – FIRST AID MEASURES

### 4.1 DESCRIPTION OF NECESSARY FIRST AID MEASURES:

**INGESTION:** Rinse mouth out with water. Due to the blend of ingredients present, the manufacturer recommends that 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. If irritation develops or persists or vomiting has occurred after ingestion, seek medical assistance.

**EYE:** If in eyes, hold eyelids apart and flush the eye immediately with large amounts of running water. Continue flushing for at least 15 minutes or until advised to stop by a Doctor. Check for contact lenses. If there are contact lenses, these should be removed after several minutes of rinsing by the exposed person or medical personnel if it can be done easily. As the product is rated as an eye irritant, after flushing, it is recommended that you seek medical assistance taking this Safety Data Sheet or the container with you.

**SKIN CONTACT:** If skin or hair contact has occurred remove any contaminated clothing and footwear, wash skin or hair thoroughly with soap and water. If irritation develops or persists, consult a Doctor.

**INHALATION:** If affected, remove the patient from further exposure into fresh air, if safe to do so. If providing assistance, avoid exposure to yourself - only enter contaminated environments with adequate respiratory equipment, once environment has been assessed for flammable vapours. Once removed, lay patient down in a well-ventilated area and reassure them whilst waiting for medical assistance. If symptoms, such as dizziness or uncoordination occur, seek medical assistance. If not breathing, provide artificial respiration and seek immediate medical assistance. If unconscious, place in a recovery position and seek immediate medical assistance. If irritation develops or persists, consult a Doctor.

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## SECTION 4 – FIRST AID MEASURES Continued

**PROTECTION FOR FIRST AIDERS:**

No personnel shall place themselves in a situation that is potentially hazardous to themselves. Assess the scenario for PPE requirements before entering. Assess environment for flammable vapours before entering. Never enter an environment with a flammable atmosphere. Do not enter contaminated area without a respirator or Self Contained Breathing Apparatus once you have assessed the atmosphere. Due to the blend of ingredients, if the person has ingested the product, do not use direct mouth-to-mouth resuscitation techniques. Always ensure that you are wearing gloves when dealing with first aid procedures involving chemicals and/or blood.

**FIRST AID FACILITIES:** Eye wash fountain and safety showers, or at least a source of flowing water, are recommended in the area where the product is used.

**4.2 MOST IMPORTANT SYMPTOMS & EFFECTS, BOTH ACUTE & DELAYED, CAUSED BY EXPOSURE:**

**ACUTE:** The product is rated as an eye irritant by calculation. Eye contact may lead to localised burning, redness, pain, swelling and tearing. Ingestion or inhalation of vapours may lead to irritation of the mouth and respiratory tract. Symptoms may include a burning sensation in the nose and throat, coughing or difficulty breathing. Ingestion may lead to nausea and diarrhoea. Contact may be mildly irritating to the skin and lead to redness or itching.

**CHRONIC:** Skin contact may aggravate/exacerbate existing skin conditions, such as dermatitis.

**4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NECESSARY:**

**ADVICE TO DOCTOR:** Treat symptomatically. If vomiting has occurred after ingestion, the patient should be monitored for adverse effects to ensure that the product has not aspirated into the lungs.

## SECTION 5 – FIRE FIGHTING MEASURES

**5.1 EXTINGUISHING MEDIA:**

**SUITABLE MEDIA:** Use extinguishing media appropriate for surrounding fire. Use carbon dioxide, alcohol resistant foam, dry chemical or water spray. Spray down fumes resulting from fire.

**UNSUITABLE MEDIA:** Avoid using full water jet directed at residual material that may be burning. Water may cause splattering.

**5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:**

**COMBUSTION HAZARDS:** Combustion may produce oxides of carbon, sulphur and sodium, as well as smoke and irritating vapours.

**5.3 ADVICE FOR FIREFIGHTERS:**

**FIRE:** This product is combustible with a typical flash point of 67°C. The vapour is heavier than air and will spread along the ground and may accumulate in low points or depressions. Therefore, ignition may occur well away from the point of release of the material. Keep storage tanks, pipelines, fire exposed surfaces, etc. cool with water spray.

**HAZCHEM CODE:** Not applicable.

**EXPLOSION:** No information to indicate that the product is an explosion hazard; though the solvent component may form an explosive mixture with air. Note: Under the WHS legislation, this product is rated as Flammable Liquid - Category 4, with a typical Flash Point of 67°C. Extinguish all sources of flame or spark. Closed containers may explode when exposed to extreme heat.

**PROTECTIVE EQUIPMENT:**

In the event of a fire, wear full protective clothing and self-contained breathing equipment with full-face piece operated in the pressure demand or other positive pressure mode.

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## SECTION 6 – ACCIDENTAL RELEASE MEASURES

### 6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:

**PERSONAL PROTECTION:** For small spills, wear Nitrile gloves, glasses/goggles, boots and full-length clothing. During routine operation for a small spill in the open a respirator is not required. However, if mists or vapours are generated, an approved organic vapour/particulate respirator is required. For large spills, or in confined spaces, a full chemically resistant body-suit is recommended and the atmosphere must be evaluated for oxygen deficiency and whether the atmosphere is flammable. Never enter an environment with a flammable atmosphere. If in doubt about oxygen deficiency wear self-contained breathing apparatus.

**CONTROL MEASURES:** Ventilate area and extinguish and/or remove all sources of ignition. **CAUTION:** Vapour may form an explosive mixture with air. Never enter a spill area unless you know the vapours have dissipated to make the area safe. Stop the leak if safe to do so. **CAUTION:** The spilled product will be slippery. Avoid contact with the spilled material.

**EMERGENCY PROCEDURES:** In the event of a spill or accidental release, notify the relevant authorities in accordance with all applicable regulations.

### 6.2 ENVIRONMENTAL PRECAUTIONS:

**SPILL ADVICE:** Do not allow product to enter drains, surface water, sewers or watercourses - inform local authorities if this occurs. Take precautions against static discharge. Ensure all equipment is grounded and use non-sparking tools during clean up operations.

### 6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:

**CONTAINMENT:** Contain the spill and absorb with a proprietary absorbent material, sand or earth. Be careful of static discharges and/or sparking during clean up. For large spills prepare a bund/barrier/dyke ahead of the spill to confine the spill and allow later recovery. If there is the possibility of spills to enter drains, surface water, sewers or watercourses ensure bunding, or that drains are covered, to minimise the potential for this to occur.

**CLEANING PROCEDURES:** Having contained the spill, as mentioned above, collect all material quickly and place used absorbent in suitable containers. Be careful of static discharges and/or sparking during clean up. Use only non-sparking tools during cleaning operations. **CAUTION:** The spilled product will be slippery. Follow local regulations for the disposal of waste. For large spills that have been banded, the material can be pumped, using flammable liquid equipment, into vessels and returned for reprocessing or destruction. Personnel must wear gloves, goggles or glasses, boots and full-length clothing during cleaning procedures. Wash contaminated area and objects with detergent and water after spill has been cleared. Rinse the cleaned area with water. Do not allow wash water or rinsings to enter drains, surface water, sewers or water courses.

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## SECTION 7 – HANDLING AND STORAGE, INCLUDING HOW THE CHEMICAL MAY BE SAFELY USED

### 7.1 PRECAUTIONS FOR SAFE HANDLING:

#### SAFE HANDLING:

Avoid contact with the product by using appropriate protective equipment such as gloves, glasses or goggles and full-length clothing. Extinguish any potential sources of ignition before using as potentially flammable vapours will be generated during application. Avoid breathing mists or vapours. Do not smoke when handling the material. Prevent small spills and leakage to avoid slip hazards. Properly dispose of any contaminated rags or cleaning materials in order to prevent fire hazards. Eating, drinking, and smoking should be prohibited in the area where this material is handled, stored and processed. Workers should follow good personal hygiene practices, such as washing hands before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Keep containers tightly closed when not in use. Please note that flammable mixtures may be formed when residual material remains in empty containers. As a precaution, containers should always be earthed before dispensing commences to avoid static discharges. Prevent product from entering waterways, drains or sewers.

### 7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:

#### SAFE STORAGE:

Classified as a Class 1 Combustible Liquid (FP = 67°C). Store in a dry, well ventilated area away from direct sunlight, ignition sources, oxidising agents, foodstuffs and clothing. Keep containers closed when not in use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Store only in original containers. The manufacturer recommends that the product is stored below 20°C. Keep out of reach of children.

#### INCOMPATIBILITIES:

Strong oxidizing substances including strong acids.

## SECTION 8 – EXPOSURE CONTROLS & PERSONAL PROTECTION

### 8.1 EXPOSURE CONTROL MEASURES:

**EXPOSURE LIMIT VALUES:** Exposure standards for the product have not been established. The following values are applicable for the individual components:

#### **2-Propanol, 1-methoxy-:**

TWA: 100 ppm 369 mg/m<sup>3</sup> STEL: 150 ppm 553 mg/m<sup>3</sup>

#### **Ethanol:**

TWA: 1000 ppm 1880 mg/m<sup>3</sup>

### 8.2 BIOLOGICAL

#### MONITORING:

No data available.

### 8.3 CONTROL BANDING:

No data available.

### 8.4 ENGINEERING CONTROLS:

#### ENGINEERING CONTROLS:

Special ventilation is not normally required when using this product in normal use scenarios. However, in the operation of certain equipment, at elevated temperatures, or in confined spaces mists or vapour may be generated and local exhaust ventilation should be provided to maintain airborne concentration levels below the nominated exposure standard and at an acceptable level that does not cause irritation. PLEASE NOTE: Due to the combustible nature of the product, if there is a necessity to use ventilation equipment it should not be a potential source of ignition for any vapours generated.

### 8.5 INDIVIDUAL PROTECTION MEASURES:

#### EYE & FACE PROTECTION:

Wear safety glasses/goggles to avoid eye contact when refilling operations are occurring. If there is a risk of splashing during use, a full face shield is recommended. Use eye protection in accordance with AS 1336 and AS 1337.

#### SKIN (HAND) PROTECTION:

If there is the chance of contact with the material wear gloves to provide hand protection. Nitrile gloves are recommended.

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## SECTION 8 – EXPOSURE CONTROLS & PERSONAL PROTECTION Cont'd

### SKIN (CLOTHING) PROTECTION:

During normal operating procedures, long sleeved clothing is recommended to avoid skin contact. Soiled clothing should be washed with detergent prior to re-use.

**RESPIRATORY PROTECTION:** During routine operation a respirator is not required. However, if mists or vapours are generated, an approved half face organic vapour/particulate respirator is required. Use respirators in accordance with AS 1715 and AS 1716.

**THERMAL PROTECTION:** Not applicable.

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 PHYSICAL AND CHEMICAL PROPERTIES:

**APPEARANCE:** Orange liquid.  
**ODOUR:** No data available.  
**ODOUR THRESHOLD:** No data available.  
**pH:** Typically 9.0 - 10.0.  
**MELTING/FREEZING POINT:** No data available.  
**INITIAL BOILING POINT:** No data available.  
**BOILING RANGE (°C):** Typically 78°C - 122°C.  
**FLASHPOINT (°C):** Typically 67°C.  
**EVAPORATION RATE:** No data available.  
**FLAMMABILITY LIMITS (%):** No data available.  
**VAPOUR PRESSURE (mmHg):** No data available.  
**VAPOUR DENSITY:** No data available.  
**DENSITY @ 20.0°C:** Typically 1.04 - 1.06.  
**SOLUBILITY IN WATER(g/L):** Completely miscible.  
**PARTITION COEFFICIENT:** No data available for n-octanol/water.  
**AUTO-IGNITION TEMP (°C):** No data available.  
**DECOMPOSITION TEMP (°C):** No data available.  
**VISCOSITY (cSt @ 100°C):** No data available.  
**VISCOSITY @ 20°C:** 10-15 seconds (Outflow time @ 20°C, ISO 2431/4mm).

## SECTION 10 – STABILITY AND REACTIVITY

**10.1 REACTIVITY:** The product does not pose any further reactivity hazards other than those listed in the following sub-sections.

**10.2 CHEMICAL STABILITY:** Stable under recommended storage and handling conditions (see section 7).

**10.3 POSSIBILITY OF HAZARDOUS REACTIONS:** Keep away from strong oxidising agents, such as strong acids, chlorates, nitrates and peroxides. Hazardous polymerisation does not occur.

**10.4 CONDITIONS TO AVOID:** This product has a relatively low flash point of 67°C. Avoid ignition sources including heat and sparks. Observe the usual precautionary measures for handling chemicals. Do not heat the container or leave the container open when not in use.

### 10.5 INCOMPATIBLE

**MATERIALS:** Strong oxidising agents including concentrated acids.

### 10.6 HAZARDOUS DECOMPOSITION

**PRODUCTS:** Hazardous decomposition products are not expected to form during normal storage requirements. See Section 5.2 for Hazardous Combustion products.

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## SECTION 11 – TOXICOLOGICAL INFORMATION

### 11.1 INFORMATION ON TOXICOLOGICAL EFFECTS:

The product is a mixture and test data is not available for the product as a whole.

#### **2-Propanol, 1-methoxy-:**

Oral - LD<sub>50</sub> (Rat): 4016 mg/kg

Dermal - LD<sub>50</sub> (Rat): >2000 mg/kg

Inhalation - LC<sub>0</sub> (Rat, vapour, 6 hours): > 7000 ppm

#### **Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-hydroxy-, C12-14-alkyl ethers, sodium salts**

Oral - LD<sub>50</sub> (Rat): >2000 mg/kg

#### **D-Glucose, decyl octyl ethers, oligomeric**

Oral - LD<sub>50</sub> (Rat): >5000 mg/kg

Dermal - LD<sub>50</sub> (Rabbit): >2000 mg/kg

#### **Ethanol**

Oral - LD<sub>50</sub> (Rat): 10470 mg/kg

Inhalation - LC<sub>50</sub> (Rat, vapour, 4 hours): 116.9 mg/l

#### **Butanedioic acid, sulfo-, 1,4-bis(2-ethylhexyl) ester, sodium salt**

Oral - LD<sub>50</sub> (Rat): 4200 mg/kg

Dermal - LD<sub>50</sub> (Rat): 10000 mg/kg

Inhalation - LC<sub>50</sub> (Rat, vapour, 4 hours): 20 mg/l

### 11.2 SWALLOWED:

This product is expected to have a low order of toxicity associated with it when ingested. It may cause slight irritation to the mouth, throat and digestive tract. During normal usage ingestion should not be a means of exposure.

### 11.3 SKIN CORROSION/ IRRITATION:

This product is not expected to exhibit Dermal Corrosivity/Irritation according to OECD Test 404, based on the available data and the known hazards of the components. May be mildly irritating to the skin. This product contains components that are rated as Causes skin irritation, however these are present at amounts well below the Concentration cut-off levels. Correct handling procedures incorporating appropriate protective clothing and gloves should minimise the risk of skin irritation. People with pre-existing skin conditions, such as dermatitis, should take extreme care so as not to exacerbate the condition.

### 11.4 SERIOUS EYE DAMAGE/ IRRITATION:

This product is rated as Causes serious eye irritation. Symptoms may include localised burning, redness and tearing. The product contains surfactant compounds that are rated as Causes serious eye damage. Tests conducted on these surfactants by their manufacturer, indicates that these are present in the product at amounts below the Concentration cut-off levels where the product would be expected to be rated as Causes serious eye damage. However, based upon the manufacturer's data the product is rated as Causes serious eye irritation. Correct handling procedures incorporating appropriate eye protection should minimise the risk of eye irritation.

### 11.5 RESPIRATORY OR SKIN SENSITISATION:

This product is not expected to be a skin sensitiser according to OECD Test 406, based on the available data and the known hazards of the components. This product is not expected to be a respiratory tract sensitiser, based on the available data and the known hazards of the components.

### 11.6 GERM CELL MUTAGENICITY:

This product is not expected to be mutagenic according to tests such as OECD Tests 471, 475, 476, 478 and 479, based on the available data and the known hazards of the components.

### 11.7 CARCINOGENICITY:

This product is not expected to be a carcinogen according to OECD Test 451, based on the available data and the known hazards of the components.

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## SECTION 11 – TOXICOLOGICAL INFORMATION Continued

### 11.8 REPRODUCTIVE TOXICITY:

This product is not expected to be a reproductive hazard according to tests such as OECD Tests 414 and 421, based on the available data and the known hazards of the components.

### 11.9 SPECIFIC TARGET ORGAN TOXICITY (STOT) - SINGLE EXPOSURE:

There is no data available for the product as a whole. This product is not expected to cause organ damage from a single exposure, based on the available data and the known hazards of the components. This product is not expected to pose an irritation hazard at ambient temperature or under normal handling conditions. Not classified as a respiratory irritant, however inhalation of vapours or mist (generated at elevated temperatures or by mechanical action) may cause irritation to the nose, throat and respiratory system.

### 11.10 SPECIFIC TARGET ORGAN TOXICITY (STOT) - REPEATED EXPOSURE:

There is no data available for the product as a whole. This product is not expected to cause organ damage from prolonged or repeated exposure according to tests such as OECD Tests 410 and 412, based on the available data and the known hazards of the components.

**11.11 ASPIRATION HAZARD:** This product is not expected to be an aspiration hazard, based on the available data and the known hazards of the components. However, the product contains surfactants, ethanol and a glycol component. The manufacturer recommends that if swallowed, do NOT induce vomiting. If vomiting has occurred after ingestion the person should be observed to ensure that aspiration into the lungs has not occurred.

**11.12 OTHER INFORMATION:** There is no additional information available.

## SECTION 12 – ECOLOGICAL INFORMATION

### 12.1 ECOTOXICITY:

The manufacturer nominates the following Ecotoxicity data:

#### **1-Methoxy-2-propanol**

LC<sub>50</sub> (Daphnia magna, 48hr): 23,300mg/L.

EC<sub>50</sub> (Pseudokirchneriella subcapitata, 7 day): > 1,000mg/L.

EC<sub>50</sub> (Bel, 3hr): > 1,000mg/L.

LC<sub>50</sub> (Leuciscus idus, 96hr): > 6,800mg/L.

#### **Poly(oxy-1,2-ethanediyl),.alpha.-sulfo-.omega.-hydroxy-,C12-14-alkyl ethers, sodium salts**

EC<sub>0</sub> (Bacteria): > 100 mg/L.

LC<sub>50</sub> (fish): > 10 - 100mg/L.

NOEC (Aquatic invertebrates): > 0.1 - 1 mg/L.

#### **D-Glucose, decyl octyl ethers, oligomeric**

EC<sub>0</sub> (Pseudomonas putida): > 100 mg/L.

EC<sub>50</sub> (Scenedesmus subspicatus): > 10 - 100mg/L.

EC<sub>50</sub> (Daphnia magna): > 100mg/L.

LC<sub>50</sub> (Brachydanio rerio): > 100mg/L.

NOEC (Daphnia magna): > 1 - 10mg/L.

NOEC (Brachydanio rerio): > 1 - 10mg/L.

#### **Ethanol**

EC<sub>50</sub> (Ceriodaphnia Dubia, 48hr): 5,012mg/L.

ErC<sub>50</sub> (Chlorella vulgaris, 72hr): 275mg/L.

LC<sub>50</sub> (Pimephales promelas, 96hr): 14,200mg/L.

NOEC (Daphnia magna, 9 day): 9.6mg/L.

#### **Butanedioic acid, sulfo-, 1,4-bis(2-ethylhexyl) ester, sodium salt**

LC<sub>50</sub> (fish, 96hr): 20mg/L.

LC<sub>50</sub> (Daphnia magna, 48hr): 36mg/L.

There is no data available for the product as a whole. Based upon calculated values, the overall product would not be expected to be rated.



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## SECTION 12 – ECOLOGICAL INFORMATION Continued

### 12.2 PERSISTENCE & DEGRADABILITY:

There is no data available for the product as a whole. The manufacturer nominates the following Persistence and Degradability data:

#### **1-Methoxy-2-propanol**

Biodegradation 90 - 100% (-).

#### **Butanedioic acid, sulfo-, 1,4-bis(2-ethylhexyl) ester, sodium salt**

Biodegradation 95% (-) (28day).

The surfactants contained in this product meet the EU Detergent Regulation requirements (EC/648/2004) for the ultimate biodegradability of surfactants.

### 12.3 BIOACCUMULATIVE POTENTIAL:

There is no data available for the product as a whole. The manufacturer nominates the following Bioaccumulative Potential data:

#### **1-Methoxy-2-propanol**

Log Kow: - 0.43 (25°C).

### 12.4 MOBILITY IN SOIL:

No information is available.

### 12.5 OTHER ADVERSE

### EFFECTS:

Do not allow the product to reach ground water, water courses or sewage systems. The product is miscible in water.

## SECTION 13 – DISPOSAL CONSIDERATIONS

### 13.1 DISPOSAL METHODS:

#### PRODUCT:

The product should not be released to the environment, so any unused material should be recycled wherever possible or be disposed of as hazardous waste at an appropriate collection depot. Spilled product that cannot be recovered should be absorbed and then shovelled into a suitable waste container, such as a plastic drum and then be treated as a solid waste. Follow Government regulations for disposal of such waste. All unused, waste or spilled product must be taken for recycling or disposal by suitably licensed contractors in accordance with Government regulations.

#### CONTAINERS:

Empty containers may contain residual product. CAUTION: Residues are combustible and will ignite with a source of ignition. Containers should be completely drained in a well ventilated area where vapours cannot accumulate and then stored until reconditioned or disposed of. Empty containers should be taken for recycling or disposal through suitably licensed contractors in accordance with Government regulations. As containers may contain combustible residues, they should not be pressurised, cut by a grinder, drilled or exposed to heat, flames or other sources of ignition. Closed containers when exposed to such conditions/treatment may explode causing serious injury.

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## SECTION 14 – TRANSPORT INFORMATION

This product is not regulated for land, sea or air transportation. (HS Code: 3402.20.00)

### 14.1 LAND (ADG Code):

**UN NUMBER:** Not applicable  
**UN PROPER SHIPPING NAME:** Not applicable  
**TRANSPORT HAZARD CLASS(ES):** Not applicable  
**PACKAGING GROUP:** Not applicable  
**ENVIRONMENTAL HAZARDS:** Not applicable  
**SPECIAL PRECAUTIONS FOR USER:** Not applicable  
**HAZCHEM CODE:** Not applicable

### 14.2 SEA (IMDG):

**UN NUMBER:** Not applicable  
**UN PROPER SHIPPING NAME:** Not applicable  
**TRANSPORT HAZARD CLASS(ES):** Not applicable  
**PACKAGING GROUP:** Not applicable  
**ENVIRONMENTAL HAZARDS:** Not applicable  
**SPECIAL PRECAUTIONS FOR USER:** Not applicable

### 14.3 AIR (IATA):

**UN NUMBER:** Not applicable  
**UN PROPER SHIPPING NAME:** Not applicable  
**TRANSPORT HAZARD CLASS(ES):** Not applicable  
**PACKAGING GROUP:** Not applicable  
**ENVIRONMENTAL HAZARDS:** Not applicable  
**SPECIAL PRECAUTIONS FOR USER:** Not applicable

## SECTION 15 – REGULATORY INFORMATION

### 15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS:

#### APPLICABLE REGULATIONS:

**SUSMP:** Not scheduled.  
**AICS:** All ingredients are on the AICS List.  
**MONTREAL PROTOCOL:** Not applicable to this product.  
**STOCKHOLM CONVENTION:** Not applicable to this product.  
**ROTTERDAM CONVENTION:** Not applicable to this product.  
**BASEL CONVENTION:** Not applicable to this product.  
**INTERNATIONAL CONVENTION FOR THE PREVENTION OF POLLUTION FROM SHIPS (MARPOL):** Not determined.

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## SECTION 15 – REGULATORY INFORMATION Continued

### OTHER REGULATORY INFORMATION:

#### GHS CLASSIFICATION HAZARD CLASS & CATEGORY

**AND HAZARD STATEMENT:** Flammable Liquids Category 2; H225 - Highly flammable liquid and vapour  
Flammable Liquids Category 3; H226 - Flammable liquid and vapour.  
Flammable Liquids Category 4; H227 - Combustible liquid.  
Skin Corrosion/Irritation Category 2; H315 - Causes skin irritation.  
Serious Eye Damage/Irritation Category 1; H318 - Causes serious eye damage.  
Serious Eye Damage/Irritation Category 2A; H319 - Causes serious eye irritation.  
Specific Target Organ Toxicity (Single Exposure) Category 3; H336 - May cause drowsiness or dizziness.  
Chronic Aquatic Toxicity Category 3; H412 - Harmful to aquatic life with long lasting effects.

**HSNO APPROVAL NUMBER:** HSR002525

**HSNO GROUP TITLE:** Cleaning Products (Combustible) Group Standard 2006.

## SECTION 16 – ANY OTHER RELEVANT INFORMATION

### SDS INFORMATION:

**Date of SDS Preparation:** 1<sup>st</sup> August 2016

**Revision:** 0.2

**REVISION CHANGES:** Changes to supplier information and addition of HSNO number in Section 1.

### ACRONYMS:

SUSMP	Standard for the Uniform Scheduling of Medicines and Poisons
CAS Number	Chemical Abstracts Service Registry Number
EINECS	European Inventory of Existing Commercial Chemical Substances
UN Number	United Nations Number
OSHA	Occupational Safety and Health Administration
ACGIH	American Conference of Governmental Industrial Hygienists
HSE-WEL	Health and Safety Executive - Workplace Exposure Limit
IMDG	International Maritime Dangerous Goods
IATA	International Air Transport Association
IUCLID	International Uniform Chemical Information Database
RTECS	Registry of Toxic Effects of Chemical Substances
%W/W	Percent weight for weight
OECD	Organisation for Economic Co-Operation and Development
ADG Code	Australian Code for the Transport of Dangerous Goods by Road and Rail
HAZCHEM Code	Emergency action code of numbers and letters which gives information to emergency services
NOHSC	National Occupational Health and Safety Commission
AICS	Australian Inventory of Chemical Substances
TWA	Time-Weighted Average
STEL	Short term Exposure Limit
HSNO	Hazardous Substances and New Organisms Act 1996
GHS	Globally Harmonised System of Classification and Labelling of Chemicals
PPE	Personal Protective Equipment.

# SAFETY DATA SHEET

## SECTION 16 – ANY OTHER RELEVANT INFORMATION Continued

### LITERATURE REFERENCES AND SOURCES OF DATA:

OECD Guidelines for Testing of Chemicals  
Annex I: OECD Test Guidelines for Studies Included in SIDS  
Manual for the Assessment of Chemicals Chapter 2 Data Gathering  
International Toxicity Testing Guidelines  
Hazardous Substance Information System - Guidance Material for Hazard Classifications  
Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice.  
Model Work Health and Safety Regulations.  
Model Work Health and Safety Regulations - Transitional Principles  
Workplace Exposure Standards for Airborne Contaminants  
Australian Dangerous Goods Code 7<sup>th</sup> Edition  
Approved Criteria for Classifying Hazardous Substances [NOHSC:1008 (2004)]  
Guidance on the Classification of Hazardous Chemicals under the WHS Regulations  
Assigning a Hazardous Substance to a Group Standard  
User Guide to the HSNO Thresholds and Classifications  
Summary User Guide to the HSNO Thresholds and Classifications of Hazardous Substances  
Correlation between GHS and New Zealand HSNO Hazard Classes and Categories  
HSNO Control Regulations  
Record of Group Standard Assignment  
Labelling of Hazardous Substances Hazard and Precautionary Information  
Thresholds and Classifications Under the Hazardous Substances and New Organisms Act 1996  
Workplace Exposure Standards and Biological Exposure Indices

All information contained in this Safety Data Sheet and the health, safety and environmental information are considered to be accurate to the best of our knowledge as of the issue date specified above. However, no warranty or representation, expressed or implied, is made as to the accuracy or completeness of the data and information contained in this data sheet.

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