SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION: PRODUCT IDENTIFIER/CHEMICAL IDENTITY

1.1 PRODUCT IDENTIFIER: Hand Cleaner
1.2 PRODUCT CODE: MAHC
1.3 RELEVANT IDENTIFIED USES OF THE MIXTURE AND USES ADVISED AGAINST:
RELEVANT IDENTIFIED USES: Hand cleaner, solvent free.
RESTRICTIONS ON USE: This is a solvent free hand cleaner that contains hazardous components that leads to a hazardous rating by calculation for the undiluted product according to the manufacturer. The ratings in the Safety Data Sheet are applicable for Occupational Risk Characterisation. This information is appropriate for incidents, such as spills, where contact with the undiluted product occurs. In use scenarios, the product is used in a diluted format on wet hands with a source of running water. Under typical use conditions, skin or eye contact with products containing these types of components are not expected to cause significant irritation.

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 8710 6600 (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 (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: HSR002530.

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 based upon information supplied by the manufacturer for the product and knowledge of similar products: Serious Eye Damage/Irritation - Category 2A

2.2 LABEL ELEMENTS INCLUDING PRECAUTIONARY STATEMENTS:
SIGNAL WORD: Warning.
PICTOGRAMS: ⚠️
HAZARD STATEMENTS: H319 - Causes serious eye irritation.
PRECAUTIONARY STATEMENTS:
PREVENTION: P102 - Keep out of reach of children.
P103 - Read label before use.
P264 - Wash hands thoroughly after handling.
P280 - Wear protective gloves/eye protection/face protection.
SECTION 2 – HAZARD(S) IDENTIFICATION Continued

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.

STORAGE: Not Applicable.

DISPOSAL: Not Applicable.

2.3 OTHER HAZARDS: The mixture has a low order of toxicity associated with it. May cause mild gastric irritation if swallowed. Excessive exposure may result in mild irritation to the skin or respiratory system. The product contains an Orange, sweet, extract component that is rated as May cause an allergic skin reaction, however this is present at <1% in the final product. People with pre-existing skin conditions, such as eczema or dermatitis, should take precautions so as not to exacerbate the condition. 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

<table>
<thead>
<tr>
<th>INGREDIENTS</th>
<th>CAS NUMBER</th>
<th>Concentration % W/W</th>
<th>GHS Classification*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Poly(oxy-1,2-ethanediyl), .alpha.-sulfo.-omega.-hydroxy- C10-16-alkyl ethers, sodium salts</td>
<td>68585-34-2</td>
<td>&lt; 10%</td>
<td>Skin Irrit 2 - H315</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Eye Irrit 2 - H319</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Chron Aq Tox 3 - H412</td>
</tr>
<tr>
<td>Orange, sweet, extract</td>
<td>8028-48-6</td>
<td>&lt; 1%</td>
<td>Flam Liq 3 - H226</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Asp Haz 1 - H304</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Skin Irrit 2 - H315</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Skin Sen 1 - H317</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Chron Aq Tox 2 - H411</td>
</tr>
<tr>
<td>Other non-hazardous ingredients</td>
<td>-</td>
<td>To 100%</td>
<td>Not Applic</td>
</tr>
</tbody>
</table>

Not Applic = Not Applicable * Please see Section 15 of this SDS for the 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 causes serious eye irritation, after flushing, if irritation persists, seek medical assistance.

SKIN CONTACT: If skin or hair contact has occurred remove any contaminated clothing and footwear, wash skin or hair thoroughly with water. If irritation develops or persists, consult a Doctor.
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SECTION 4 – FIRST AID MEASURES Continued

INHALATION: If a person is affected by inhaling the product, 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 removed, lay patient down in a well-ventilated area and reassure them whilst waiting for 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/persists, consult a Doctor.

PROTECTION FOR FIRST AIDERS: No personnel shall place themselves in a situation that is potentially hazardous to themselves. As the product contains surfactants, if the person has ingested the product, caution should be exercised in using 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 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. Eye contact may lead to localised burning, redness and tearing. Ingestion or inhalation of vapours may lead to irritation of the mouth and respiratory tract. Ingestion may lead to nausea and diarrhoea. Skin contact may lead to redness or itching.

CHRONIC: Skin contact may aggravate/exacerbate existing skin conditions, such as dermatitis. The product contains an Orange, sweet, extract component that is rated as May cause an allergic skin reaction, however this is present at <1% in the final product.

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

ADVICE TO DOCTOR: Treat symptomatically. Based upon the manufacturer’s recommendation, if vomiting has occurred after ingestion the person should be observed to ensure that aspiration into the lungs has not occurred.

SECTION 5 – FIRE FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA:

SUABLE MEDIA: Use extinguishing media appropriate for surrounding fire. Use carbon dioxide, foam, dry chemical or water fog. Spray down fumes resulting from fire.

UNSUABLE MEDIA: Avoid using full water jet directed at residual material that may be burning once the aqueous component has evaporated. Water may cause splattering on hot residue

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:

COMBUSTION HAZARDS: Combustion of the residual material after evaporation of the aqueous component may produce oxides of carbon and sulphur, as well as smoke and irritating vapours.

5.3 ADVICE FOR FIREFIGHTERS:

FIRE: This product is not flammable under conditions of use. Once the aqueous component has evaporated, the residue will be combustible. 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. 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.
SECTION 6 – ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:

PERSONAL PROTECTION: For small spills, wear PVC, Nitrile or Neoprene gloves, glasses/goggles, enclosed shoes and full-length clothing. During routine operation for a small spill in the open a respirator is not required. For large spills, or in confined spaces, a full chemically resistant body-suit is recommended. If in doubt about potential oxygen deficiency wear self-contained breathing apparatus.

CONTROL MEASURES: Ventilate area and extinguish and/or remove all sources of ignition. 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.

6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:

CONTAINMENT: Contain the spill and absorb with a proprietary absorbent material, sand or earth. 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: Small spills can be cleaned up by hand using a cleaning cloth. Having contained the spill, as mentioned above, collect all material quickly and place used absorbent in suitable containers. Follow local regulations for the disposal of waste. For large spills that have been bunded, the material can be scooped into vessels and returned for reprocessing or destruction. Personnel must wear gloves, goggles or glasses, boots and full-length clothing during cleaning procedures. Wash and rinse the contaminated area and objects with water after spill has been cleared. Do not allow wash water or rinsings to enter drains, surface water, sewers or water courses.

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

7.1 PRECAUTIONS FOR SAFE HANDLING:

SAFE HANDLING: If handling in bulk, avoid contact with the product by using appropriate protective equipment such as gloves, glasses or goggles and full-length clothing. Prevent small spills and leakage to avoid slip hazards. Properly dispose of any contaminated rags or cleaning materials. 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. Prevent product from entering waterways, drains or sewers.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATABILITIES:

SAFE STORAGE: Store in a dry, well ventilated area away from direct sunlight, ignition sources, oxidising agents, foodstuffs, animal feed 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.

INCOMPATIBILITIES: Oxidising 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.
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, if there are vapours generated under use conditions ventilation should be provided to maintain airborne concentrations at an acceptable level that does not cause irritation.

8.5 INDIVIDUAL PROTECTION MEASURES:
EYE & FACE PROTECTION: As the product is a hand cleaner, eye protection is not normally required. If there is a spill scenario and there is the potential of contact with the material wear safety glasses/goggles to avoid eye contact. Use eye protection in accordance with AS 1336 and AS 1337.

SKIN (HAND) PROTECTION: As the product is a hand cleaner, hand protection is not normally required. If there is a spill scenario and there is the potential of contact with the material wear gloves to provide hand protection. PVC, Neoprene or Nitrile rubber gloves are recommended.

SKIN (CLOTHING) PROTECTION: As the product is a hand cleaner, special clothing is not normally required. If there is a spill scenario and there is the potential of contact with the material wear long sleeved clothing 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, for large spills, an approved half face organic vapour/particulate respirator is recommended. 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: Pale yellow liquid.
ODOUR: Citrus.
ODOUR THRESHOLD: No data available.
pH: Typically 6-8 @25 °C (1% w/w water).
MELTING/FREEZING POINT: No data available.
INITIAL BOILING POINT: Approximately 100 °C.
BOILING RANGE (°C): No data available.
FLASHPOINT (°C): Not applicable.
EVAPORATION RATE: No data available.
FLAMMABILITY LIMITS (%): Not applicable.
VAPOUR PRESSURE: No data available.
VAPOUR DENSITY: No data available.
DENSITY (g/mL @ 15 °C): No data available.
SOLUBILITY IN WATER (g/L): Completely miscible.
PARTITION COEFFICIENT: No data available for n-octanol/water.
AUTO-IGNITION TEMP (°C): Not applicable.
DECOMPOSITION TEMP (°C): No data available.
VIScosity (cSt @ 100 °C): No data available.
VIScosity (cSt @ 40 °C): No data available.
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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: 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.

SECTION 11 – TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS: There is no data available for the product as a whole. However, based upon calculated values the manufacturer has nominated the LD₅₀ for the product to be >10,000 mg/kg.

11.2 ACUTE TOXICITY: 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 and may cause nausea and vomiting. 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 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 May cause skin irritation, however these are below the cut-off levels where they would cause the product to be rated. As the product is a cleaner, it will have a degreasing effect on the skin. Prolonged or repeated skin contact may lead to dryness and cracking. 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: The product is rated as Causes serious eye irritation by the manufacturer. Symptoms may include localised burning, pain, swelling, redness and tearing. 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 based on the available data and the known hazards of the components. However, it contains an Orange, sweet, extract component that is rated as May cause an allergic skin reaction, however this is present at <1% in the final product. 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 based on the available data and the known hazards of the components.

11.7 CARCINOGENICITY: This product is not expected to be a carcinogen based on the available data and the known hazards of the components.

11.8 REPRODUCTIVE TOXICITY: This product is not expected to be a reproductive hazard based on the available data and the known hazards of the components.
11.9 SPECIFIC TARGET ORGAN TOXICITY (STOT) - SINGLE EXPOSURE: 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. The 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 (generated at elevated temperatures) may cause irritation to the nose, throat and respiratory system.

11.10 SPECIFIC TARGET ORGAN TOXICITY (STOT) - REPEATED EXPOSURE: This product is not expected to cause organ damage from prolonged or repeated exposure 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, due to the blend of ingredients 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: No additional data is available.

SECTION 12 – ECOLOGICAL INFORMATION

12.1 ECOTOXICITY: The manufacturer has nominated the following values for the undiluted product: Acute Toxicity to fish (calculated from ingredients): LC50: 21 - 25 mg/l

The manufacturer has nominated the following values for the diluted product: Acute Aquatic Toxicity (calculated): LC50: 2113 - 2489 mg/l

The components have been rated as Toxic to aquatic life with long lasting effects and Harmful to aquatic life with long lasting effects. Based upon calculated values, the overall product would not be expected to be rated based upon the manufacturers information.

12.2 PERSISTENCE & DEGRADABILITY: Based on the available data and the known hazards of the components and similar products the product is expected to be readily biodegradable.

12.3 BIOACCUMULATIVE POTENTIAL: There is no data available for the product as a whole.

12.4 MOBILITY IN SOIL: There is no data available for the product as a whole.

12.5 OTHER ADVERSE EFFECTS: There is no data available for the product as a whole. 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. They should be completely drained and then stored until disposed of. Empty containers should be taken for recycling or for disposal through suitably licensed contractors in accordance with Government regulations.
SECTION 14 – TRANSPORT INFORMATION

This product is not regulated for land, sea or air transportation. (HS Code: 3401.19.90.30)

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 3; H226 - Flammable liquid and vapour. Aspiration Hazard Category 1; H304 - May be fatal if swallowed and enters airway. Skin Corrosion/Irritation Category 2; H315 - Causes skin irritation. Sensitisation - Skin Category 1; H317 - May cause an allergic skin reaction. Serious Eye Damage/Irritation Category 2A; H319 - Causes serious eye irritation. Chronic Aquatic Toxicity Category 2; H411 - Toxic to aquatic life with long lasting effects. Chronic Aquatic Toxicity Category 3; H412 - Harmful to aquatic life with long lasting effects.

HSNO APPROVAL NUMBER: HSR002530.

SECTION 16 – ANY OTHER RELEVANT INFORMATION

SDS INFORMATION:
Date of SDS Preparation: 13th June 2018
Revision: 2.0

REVISION CHANGES: Changes to product formulation. Changes to Sections 2, 3, 4, 9, 11, 12, 14, 15 and 16.

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
EH40 EH40/2005 Workplace Exposure Limits
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
NICNAS National Industrial Chemicals Notification & Assessment Scheme
IMAP Inventory Multi-Tiered Assessment and Prioritisation
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
WHS Work Health and Safety PPE Personal Protective Equipment.
LD50 Median Lethal Dose
LC50 Median Lethal Concentration
EC50 Effective Concentration of a substance that causes 50% of the maximum response after exposure for a nominated time
NOAEL No Observed Adverse Effect Level
NOEC No Observed Effect Concentration
ECHA European Chemicals Agency
REACH Registration, Evaluation, Authorisation and Restriction of Chemicals
HCIS Hazardous Chemical Information System
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 Chemical Information System (HCIS) - 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 7th 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.

Health and safety precautions and environmental advice noted in this data sheet may not be accurate for all individuals and/or situations. It is the user’s obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. The Company accepts no responsibility for any injury, loss or damage, resulting from abnormal use of the material, from any failure to adhere to recommendations, or from any hazards inherent in the nature of the material.