



# HAND BAC SANITISER GEL

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## Safety Data Sheet

### Section 1 – Identification

Product Identifier	
Product name	<b>HAND-BAC</b>
Chemical name	Not Applicable
Synonyms	Product Code: UBHANDBAC
Proper shipping name	ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)
Chemical formula	Not Applicable
Other means of identification	Not Available
CAS number	Not Applicable
Recommended use of the chemical and restrictions on use	
Relevant identified uses	Alcohol based hand sanitizing gel.
Details of the manufacturer or importer	
Registered company name	ECOCLEAN UTILITY AGENCIES Pty Ltd
Address	26 Notar Drive, Ormeau, Queensland, Australia, 4220
Telephone	(07) 5549 3666
Website	<a href="http://www.ecocleanavantichem.com.au">www.ecocleanavantichem.com.au</a>
Emergency phone number	Poisons Information Centre: Phone 13 11 26
Emergency Telephone Number	
Association / Organisation	Poisons Information Centre
Emergency telephone number	13 11 26
Other emergency telephone numbers	In an emergency telephone 000, for fire, police and ambulance.

### Section 2 – Hazard(s) Identification

Classification of the substance or mixture	
Poisons Schedule	Not scheduled
ADG Code	Flammable 3
GHS Classification	Flammable liquids Category 3 Eye Irritation Category 2A
Label elements	
GHS label pictograms	



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<b>Signal word</b>	<b>WARNING</b>
<b>Hazard statement(s)</b>	
H226	Flammable liquid and vapour.
H319	Causes serious eye irritation
<b>Precautionary statement(s): General</b>	
P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read label before use.
<b>Precautionary statement(s): Prevention</b>	
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P240	Ground/bund container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting/intrinsically safe equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P264	Wash hands thoroughly.
P280	Wear protective gloves/eye protection/face protection.
<b>Precautionary statement(s): Response</b>	
P370+P378	In case of fire: Use alcohol resistant foam/water spray/fog for extinction.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
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.
<b>Precautionary statement(s): Storage</b>	
P403+P235	Store in well ventilated place. Keep cool.
<b>Precautionary statement(s): Disposal</b>	
P501	Dispose of contents/container in accordance with local regulations.
<b>Note</b>	
<b>IMPORTANT</b>	This SDS and the Hazard Classifications contained therein, only apply to the product in its concentrated form, as supplied. When diluted to 1:10 or greater they no longer apply. However, good hygiene and housekeeping practices should be adhered to.

## Section 3 – Composition and Information on Ingredients

Ingredient	CAS Name	Proportion
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Ethanol	64-17-5	>60 %w/w
Water	7732-18-5	30 – 60 %w/w

### Section 4 – First Aid Measures

Description of necessary first aid measures	
<b>Eye Contact</b>	If this product comes in contact with eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If symptoms persist transport to nearest medical facility for additional treatment.
<b>Skin contact</b>	If skin contact occurs, remove contaminated clothing and wash skin thoroughly with water and follow by washing with soap if available.
<b>Inhalation</b>	Remove victim from exposure if safe to do so. If rapid recovery does not occur, transport to nearest medical facility for additional treatment. Remove contaminated clothing.
<b>Ingestion</b>	If swallowed, do NOT induce vomiting. Transport to nearest medical facility for additional treatment.
Symptoms caused by exposure	
<b>Inhalation:</b>	Health injuries are not known or expected under normal use.
<b>Skin:</b>	Health injuries are not known or expected under normal use.
<b>Eye:</b>	May include burning sensation, redness, swelling and/or blurred vision.
<b>Ingestion:</b>	Can cause drunkenness or harmful central nervous system effects. The deliberate ingestion of ethanol (50-100ml) may cause inebriation such that safety is impaired. Effects of a small intake may include excitation, euphoria, headache, dizziness, drowsiness, blurred vision, and fatigue. Ingestion of a large amount may lead to severe acute intoxication, tremors, convulsion, loss of consciousness, coma, respiratory arrest and death.
Medical attention and special treatment	
	Treat symptomatically

### Section 5 – Fire Fighting Measures

Suitable extinguishing equipment / media	
	Alcohol stable foam, water spray or fog. Dry chemical powder, carbon dioxide for small fires only. Do not use water in a jet.
Special hazards arising from the chemical	
<b>Fire incompatibility</b>	Carbon monoxide and/or carbon dioxide may be evolved.



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Special protective equipment and precautions for fire fighters	
<b>Fire Fighting</b>	<ul style="list-style-type: none"> <li>Wear full protective clothing and self-contained breathing apparatus.</li> <li>Hazchem code •2Y</li> <li>Prevent, by any means available, spillage from entering drains or watercourse.</li> <li>Consider evacuation (or protect in place).</li> <li>Fight Fire from a safe distance, with adequate cover.</li> <li>If safe, switch off electrical equipment until vapour fire hazard removed.</li> </ul>
<b>Fire/Explosion Hazard</b>	<ul style="list-style-type: none"> <li>Liquid and vapour are flammable.</li> <li>Severe fire hazard when exposed to heat, flame and/or oxidisers.</li> <li>Vapour may travel a considerable distance to source of ignition.</li> <li>Heating may cause expansion or decomposition leading to violent rupture of containers.</li> <li>Combustion products include carbon dioxide (CO<sub>2</sub>), other pyrolysis products typical of burning organic material.</li> </ul>

## Section 6 – Accidental Release Measures

Personal precautions, protective equipment and emergency procedures	
<b>Minor spills</b>	<ul style="list-style-type: none"> <li>Remove all ignition sources.</li> <li>Clean up all spills immediately.</li> <li>Avoid breathing vapours and contact with skin and eyes.</li> <li>Control personal contact with the substance, by using protective equipment.</li> <li>For small spills (&lt; 1 drum), transfer by mechanical means to a labelled, sealable container for product recovery or safe disposal. Allow any residues to evaporate or use an appropriate absorbent material and dispose of safely.</li> </ul>
<b>Major spills</b>	<ul style="list-style-type: none"> <li>Clear area of personal and move upwind.</li> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>May be violently or explosively reactive.</li> <li>Wear breathing apparatus plus protective gloves.</li> <li>Prevent, by any means available, spillage from entering drains or watercourse.</li> <li>Consider evacuation (or protect in place)</li> <li>No smoking, naked lights or ignition sources.</li> <li>For larger spills (&gt; 1 drum), transfer by means such as a vacuum truck to a salvage tank for recovery or disposal. Do not flush residues with water. Retain as contaminated waste.</li> <li>Allow any residues to evaporate or use an appropriate absorbent material and dispose of safely.</li> </ul>



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Environmental precautions	
	<ul style="list-style-type: none"> <li>• Use appropriate containment to avoid environmental contamination.</li> <li>• Prevent from spreading and entering waterway using sand, earth or other appropriate barriers.</li> <li>• Attempt to disperse the vapour or to direct its flow to a safe location for example by using fog sprays.</li> <li>• Ventilate contaminated area thoroughly.</li> </ul>
Methods and materials for containment and cleaning up	
	<ul style="list-style-type: none"> <li>• Avoid contact with spilled or released material.</li> <li>• Shut off leaks, if possible without personal risks.</li> <li>• Isolate hazard area and deny entry to unnecessary or unprotected personnel.</li> <li>• Remove all sources of ignition in the surrounding area.</li> <li>• Take precautionary measure against static discharge.</li> <li>• Ensure electrical continuity by bonding and earthing all equipment.</li> <li>• Personal protective equipment advice is contained in Section 8 of the SDS.</li> </ul>

## Section 7 – Handling and Storage

Precautions for safe handling	
<b>Safe handling</b>	<ul style="list-style-type: none"> <li>• Wear prescribed protective clothing.</li> <li>• Use in well ventilated area.</li> <li>• Do NOT eat, drink or smoke when handling.</li> <li>• Wash hands after use.</li> <li>• Keep containers closed tightly when not in use.</li> <li>• Store in accordance to manufacturers instructions.</li> </ul>
<b>Other information</b>	<ul style="list-style-type: none"> <li>• Store in original containers.</li> <li>• Store in a cool, dry, well ventilated area out of direct sunlight.</li> <li>• Store in flammable approved cupboards or storage containers.</li> </ul>
Conditions for safe storage, including any incompatibilities	
<b>Suitable container</b>	<ul style="list-style-type: none"> <li>• Bulk storage tanks should be banded.</li> <li>• Store in original containers provided by the manufacturer.</li> </ul>
<b>Storage incompatibility</b>	<ul style="list-style-type: none"> <li>• Store in a well-ventilated area, away from sunlight, ignition sources and other sources of heat.</li> <li>• Do not store near strong oxidants.</li> </ul>


## Section 8 – Exposure controls and personal protection

### Control parameters

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<b>Occupational Exposure Limits (OEL)</b>		See Ingredients Data and Emergency Limits below.				
<b>Ingredients data</b>						
Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australian Exposure Standards	ethanol	Ethyl alcohol	1880mg/ m3 1000 ppm	Not available	Not available	Not available
<b>Emergency limits</b>						
Ingredient	TEEL-0	TEEL-1	TEEL-2	TEEL-3		
Ethanol	1000ppm	3000ppm	3300ppm	3300ppm		
<b>IDLH data</b>						
Ingredient	Original IDLH		Revised IDLH			
Ethanol	15,000 ppm		3,300 ppm			
<b>Exposure controls</b>						
<b>Appropriate engineering controls</b>	<ul style="list-style-type: none"> <li>Ensure adequate ventilation to keep airborne concentrations below exposure standards.</li> </ul>					
<b>Personal protection</b>	 <ul style="list-style-type: none"> <li>The selection of PPE is dependent on a detailed risk assessment.</li> <li>The risk assessment should consider the work situation, the physical form of the chemical, the handling methods, and environmental factors.</li> <li>The following protective equipment should be available.</li> </ul>					
<b>Eye and face protection</b>	<ul style="list-style-type: none"> <li>Generally not required to handle the product as a hand sanitizer gel as per label directions.</li> <li>The use of safety glasses with side shield protection, goggles or face shield is recommended to handle concentrate in quantity, cleaning up spills, decanting, etc.</li> <li>Contact lenses pose a special hazard; soft lenses may absorb irritants and all lenses concentrate them.</li> </ul>					
<b>Skin protection</b>	<ul style="list-style-type: none"> <li>See hand protection below</li> </ul>					
<b>Hand protection</b>	<ul style="list-style-type: none"> <li>Not required to handle the product as per label directions.</li> <li>Overalls, apron, work boots and elbow length gloves are recommended to handle in quantity, cleaning up spills, decanting, etc. (as per AS/NZS 2161, or as</li> </ul>					



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	recommended by supplier).
<b>Body protection</b>	<ul style="list-style-type: none"> <li>• Normal work clothes and boots</li> </ul>
<b>Respiratory protection</b>	<ul style="list-style-type: none"> <li>• No personal respiratory protective equipment normally required.</li> <li>• If work practices do not maintain airborne level below the exposure standard, use appropriate respiratory protection equipment. When using respirators, select an appropriate combination of mask and filter.</li> <li>• Respirators should comply with AS1716 or an equivalent approved by a state/territory authority.</li> </ul>
<b>Other protection</b>	<ul style="list-style-type: none"> <li>• Ensure there is access to eye wash.</li> </ul>
<b>Thermal hazards</b>	Not Available

## Section 9 – Physical and Chemical Properties

Information on basic physical and chemical properties			
<b>Appearance</b>	Colourless non-viscous liquid with a characteristic odour.		
<b>Physical state</b>	Liquid gel	<b>Relative density (water=1)</b>	0.99 @ 25 °C
<b>Odour</b>	Alcohol & lemon	<b>Partition coefficient n-octanol/water</b>	Not Available
<b>Odour threshold</b>	Not Available	<b>Auto-ignition temperature (°C)</b>	392°C
<b>pH (as supplied)</b>	Not Available	<b>Decomposition temperature</b>	Not Available
<b>Melting Point / Freezing Point (°C)</b>	Not Available	<b>Viscosity (cSt)</b>	Not Available
<b>Initial boiling point and boiling range (°C)</b>	78°C	<b>Molecular weight (g/mol)</b>	Not Available
<b>Flash point (°C)</b>	24 °C closed cup	<b>Taste</b>	Not Available
<b>Evaporation rate</b>	Not Available	<b>Explosive properties</b>	Not Available
<b>Flammability</b>	Flammable	<b>Oxidising properties</b>	Not Available
<b>Upper Explosive Limit (%)</b>	19% (for ethanol)	<b>Surface Tension (dyn/cm or mN/m)</b>	Not Available
<b>Lower Explosive Limit (%)</b>	3.5% (for ethanol)	<b>Volatile Component (%vol)</b>	99
<b>Vapour pressure (kPa)</b>	Not Available	<b>Gas group</b>	Not Available
<b>Solubility in water (g/L)</b>	Miscible	<b>pH as a solution (1%)</b>	Not Available
<b>Vapour density (Air=1)</b>	1.59 @ 15°C (for ethanol)	<b>VOC g/L</b>	Not Available

## Section 10 – Stability and Reactivity





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<b>Reactivity</b>	Stable under normal conditions of use.
<b>Chemical stability</b>	Stable under normal conditions of use.
<b>Possibility of hazardous reactions</b>	Stable under normal conditions of use.
<b>Conditions to avoid</b>	Avoid heat, sparks, open flames and other ignition sources.
<b>Incompatible materials</b>	Strong oxidising agents.
<b>Hazardous decomposition products</b>	Burning can produce carbon monoxide and/or carbon dioxide.

## Section 11 – Toxicological Information

Information on toxicological effects			
<b>Inhaled</b>	Health injuries are not known or expected under normal use.		
<b>Ingestion</b>	Can cause drunkenness or harmful central nervous system effects. The deliberate ingestion of ethanol (50-100ml) may cause inebriation such that safety is impaired. Effects of a small intake may include excitation, euphoria, headache, dizziness, drowsiness, blurred vision, and fatigue. Ingestion of a large amount may lead to severe acute intoxication, tremors, convulsion, loss of consciousness, coma, respiratory arrest and death.		
<b>Skin contact</b>	Not expected to be irritating to skin.		
<b>Eyes</b>	May include burning sensation, redness, swelling and/or blurred vision. Discomfort may last up to 2 days but healing is usually spontaneous and complete.		
<b>Chronic</b>	Health injuries are not known or expected under normal use.		
HAND-BAC SANITIZER GEL (as sold)			
<b>Acute Toxicity</b>	Not toxic, based on ingredients. Oral LD50 (calculated) : > 20,000 mg/kg	<b>Irritation</b>	Causes eye irritation, based on ingredients.
Individual constituents			
Ethanol			
<b>Acute Toxicity</b>	Low toxicity in animals - LD50 Oral (rat) : 7060mg/kg LC50 Inhalation (rat, 6h) : 5900mg/m <sup>3</sup>	<b>Carcinogenicity</b>	Not listed as a carcinogen NTP, IARC, OSHA, EPA.
<b>Skin Irritation/Corrosion</b>	Mild irritant. Prolonged contact may cause defatting of skin which can lead to dermatitis.	<b>Reproductivity</b>	Not expected to impair fertility.
<b>Serious Eye Damage/Irritation</b>	Vapours may irritate the eyes. Liquid or mists may severely irritate or damage the eyes.	<b>STOT – Single Exposure</b>	No data available





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<b>Respiratory or Skin sensitivity</b>	No data available	<b>STOT – Repeated Exposure</b>	No data available
<b>Mutagenicity</b>	No data available	<b>Aspiration Hazard</b>	Yes

## Section 12 – Ecological Information

Toxicity	
	Expected to be harmful. Ethanol biodegrades in soil rapidly. If a large quantity is in contact with soil it may leach into the ground water, however most is lost by evaporation. Ethanol is biodegradable and does not bio-accumulate to an appreciable extent.

Aqua-Toxicity	
<b>HAND-BAC (as sold)</b>	Acute Aquatic Toxicity (Calculated) LC50: > 450 mg/L. Acute Aquatic Toxicity <b>NOT HAZARDOUS</b> . Not harmful to aquatic life. LC50 > 100mg/L.

Individual Constituents:	
Ethanol	Ethanol biodegrades in soil rapidly. If a large quantity is in contact with soil it may leach into the ground water, however most is lost by evaporation. Ethanol is biodegradable and does not bio-accumulate to an appreciable extent. Bluegill Sunfish LC50/96hr : >13500mg/L Rainbow Trout LC50/24hr : 11200mg/L (Flow through) Golden Ide LC0/48hr : >1000mg/L Daphnia Magna EC50/24hr : >1000mg/L

Persistence and degradability		
Ingredient	Persistence: Water/Soil	Persistence: Air
Ethanol	Biodegradable.	Not Available

Bioaccumulative potential	
Ingredient	Bioaccumulation
Not Available	Not Available

Mobility in soil	
Ingredient	Mobility
Ethanol	Does not bio-accumulate to an appreciable extent.



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### Section 13 – Disposal considerations

Waste treatment methods	
<b>Product and Packaging Disposal</b>	Recycle containers if possible, or dispose in an authorised landfill. Ensure waste disposal confirms to local waste disposal regulations.

### Section 14 – Transport Information

Labels Required	
<b>Transport pictogram</b>	
<b>Marine Pollutant</b>	No
<b>HAZCHEM</b>	•2Y
Land Transport (ADG)	
<b>UN number</b>	1170
<b>Packing group</b>	III
<b>HAZCHEM</b>	•2Y
<b>UN proper shipping name</b>	ETHANOL (ETHYL ALCOHOL) or ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)
<b>Environmental hazard class(es)</b>	No relevant data
<b>Transport hazard class(es)</b>	<b>Class</b> 3 <b>Subrisk</b>
<b>Special precautions for user</b>	<b>Special provisions</b> 144 <b>Limited quantity</b> 1L
Air transport (ICAO-IATA / DGR)	
<b>UN number</b>	1170
<b>Packing group</b>	III
<b>UN proper shipping name</b>	ETHANOL (ETHYL ALCOHOL) or ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)
<b>Environmental hazard</b>	No relevant data
<b>Transport hazard class(es)</b>	ICAO/IATA Class 3 ICAO/IATA Subrisk ERG Code 3L
<b>Special precautions for user</b>	Special provisions A3A58A180 Cargo Only Packaging Instructions 364 Cargo Only Maximum 60L



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	Qty/Pack	
	Passenger and Cargo Packing Instructions	353
	Passenger and Cargo Maximum Qty/Pack	5L
	Passenger and Cargo Limited Quantity Packaging Instructions	Y341
	Passenger and Cargo Limited Maximum Qty/Pack	1L

### Sea transport (IMDG-Code / GGVSee)

UN number	1170	
Packing group	111	
UN proper shipping name	ETHANOL (ETHYL ALCOHOL) or ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)	
Environmental hazard class(es)	Not Available	
Transport hazard class(es)	IMDG Class	3
	IMDG Subrisk	
Special precautions for user	EMS Number	F-E, S-D
	Special provisions	144
	Limited Quantities	1L

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code

Source	Ingredient	Pollution Category	Residual Concentration – outside special Area (%w/w)	Residual Concentration
40-7-4-9-0-0-MK-20041022	Ethanol	Not Available	Not Available	Not Available

## Section 15 – Regulatory Information

### Health, safety and environment regulations

Poisons Schedule	Not scheduled
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## Section 16 – Other Information

Issue Date	26 <sup>th</sup> August 2016
Version Number	2.0



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<p><b>Abbreviations and acronyms</b></p>	<ul style="list-style-type: none"> <li>• ADG Code: Australian Code for the Transport of Dangerous Goods by Road and Rail.</li> <li>• AICS: Australian Inventory of Chemical Substances.</li> <li>• CAS Number: Chemical Abstracts Service Registry Number.</li> <li>• GHS: Globally Harmonized System of Classification and Labelling of Chemicals</li> <li>• HAZCHEM: An emergency action code of numbers and letters which gives information to emergency services.</li> <li>• HSIS: Hazardous Substances Information System</li> <li>• IARC: International Agency for Research on Cancer.</li> <li>• NOHSC: National Occupational Health and Safety Commission.</li> <li>• NTP: National Toxicology Program (USA).</li> <li>• SDS: Safety Data Sheet</li> <li>• STEL: Short Term Exposure Limit.</li> <li>• SUSMP: Standard for the Uniform Scheduling of Medicines and Poisons.</li> <li>• TWA: Time Weighted Average.</li> <li>• UN Number: United Nations Number.</li> </ul>
<p><b>Literature references</b></p>	<ul style="list-style-type: none"> <li>• Preparation of Safety Data Sheets for Hazardous Chemicals – Code of Practice (Safe Work Australia)</li> <li>• GHS Hazardous Chemical Information List (Safe Work Australia)</li> <li>• Guidance on the Classification of Hazardous Chemicals under the WHS Regulations. Safe Work Australia.</li> <li>• Global Harmonized System of Classification and Labelling of Chemicals</li> <li>• “Australian Exposure Standards”</li> <li>• Australian Code For The Transport Of Dangerous Goods By Road And Rail</li> <li>• Standard for the Uniform Scheduling of Medicines and Poisons</li> <li>• Material Safety Data Sheets – individual raw materials – Suppliers.</li> <li>• Approved Criteria for Classifying Hazardous Substances NOHSC:1008(1999)]</li> <li>• Hazardous Substance Information System – National Worksafe Data Base.</li> <li>• IMPLEMENTATION OF THE GLOBALLY HARMONISED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS (GHS) APRIL 2012</li> </ul>
<p><b>Risk assessments</b></p>	<p>This SDS is a tool to communicate hazards which can assist you in creating relevant risk assessments for your workplace. There are many variables in determining whether a particular hazard is a risk in your workplace. Keep in mind this may be influenced by such things as the amount used, frequency of use, engineering controls, effectiveness of safety training and many more considerations.</p>
<p><b>Disclaimer</b></p>	<p>Safety Data Sheets are updated frequently. Please ensure that you have a current copy. This SDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. If clarification or further information is needed to ensure that an appropriate risk assessment can be</p>



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	made, the user should contact XO2 Pty Ltd. Our responsibility for products sold are subject to our standard terms and conditions. Where health or safety data given discloses a risk to the user or environment, it is the responsibility of the Purchaser to pass on that information to employees or those who may be using the product, ensuring that adequate safety procedures are used including good industrial hygiene.
<b>Copyright</b>	This document is copyright.
<b>End of SDS</b>	

### Document Revision History

Revision Version #	Date	Reason for revision
Draft		GHS format
2.0	26/08/2016	Review by Tuwai Specialties. <a href="mailto:tuwai.wt@bigpond.com">tuwai.wt@bigpond.com</a>