

# SAFETY DATA SHEET

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND SUPPLIER

<b>Product name:</b>	<b>ISOSHIELD</b>
<b>Product code:</b>	<b>IS50, IS250</b>
<b>Recommended use:</b>	ISOSHIELD is a multi-application cleaner, sanitiser and antimicrobial protectant, 3-in-1 product suitable for application to hands and hard and soft surfaces as per directions.
<b>Company details:</b>	ISO TECHNOLOGIES LTD P O BOX 305-503 Triton Plaza, North Shore Auckland 0757, NEW ZEALAND
<b>Telephone number:</b>	Phone: +64 9 477-5700 Fax: +64 9 476-3602
<b>Emergency telephone number:</b>	National Poisons Centre: 0800 764 766 (0800 POISON) Fire Service, Ambulance: Dial 111
<b>Date of preparation:</b>	25 AUGUST 2010

## SECTION 2: PRODUCT COMPOSITION AND INGREDIENTS

**Product Characterisation:** Colourless Clear Liquid, Cleaning Sanitising and Antimicrobial Protectant Solution

<b>Product Components:</b>	<b>INGREDIENT</b>	<b>CAS #</b>	<b>APPROX CONCENTRATION</b>
	ETHYL ALCOHOL	64-17-5	~70%
	BENZYLKONIUM CHLORIDE	61789-71-1	<2 %
	Octadecyldimethyl (3-Trimethoxysilylpropyl) Ammonium Chloride	27668-52-6	<1 %
	EDIBLE SUCROSE ESTER SURFACTANT;	Proprietary	<5 %
	Aqua pura - Water	7732-18-5	>20 %
	Fragrance	Proprietary	< 0.5%

**Data and interpretation:** May be harmful if swallowed. May cause eye irritation

## SECTION 3: HAZARDS IDENTIFICATION

<b>Hazard classifications:</b>	3.1B FLAMMABLE Classified as hazardous according to NOHSC – HAZARDOUS SUBSTANCE
<b>Priority and secondary identifiers:</b>	Ecotoxic see section 11
<b>Risk and safety phrases:</b>	<b>Harmful</b> – May cause eye irritation. Avoid contact with eyes and ensure adequate ventilation when using. <b>Harmful</b> – May cause organ damage from repeated oral exposure at high doses . <b>Harmful</b> to aquatic life with long-lasting effects. <b>Avoid</b> contamination of any water supply with product.

## SECTION 4: FIRST AID MEASURES

<b>Necessary first aid measures:</b>	<b>For advice contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor immediately</b> <u>Eye Contact:</u> Flush eyes with plenty of water for 15 minutes holding eyelids open if necessary. Seek medical assistance. <u>Skin Contact:</u> Not applicable. No irritation or reaction expected. <u>Excessive Inhalation:</u> Remove patient to fresh air. Lie down and keep warm and rested. Seek medical assistance.
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<b>Workplace facilities:</b>	<u>Ingestion:</u> Do NOT induce vomiting. Seek medical assistance immediately.
<b>Notes for medical personnel:</b>	Facilities storing or utilising this material should be equipped with an eyewash facility Treat symptomatically
SECTION 5: FIRE FIGHTING MEASURES	
<b>Type of hazard:</b>	FLAMMABLE.
<b>Fire hazard Information:</b>	Containers can build up pressure if exposed to heat and/or fire. As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Vapours may form an explosive mixture with air. Vapours can travel to a source of ignition and flash back. Will burn if involved in a fire.  Flammable Liquid. Can release vapours that form explosive mixtures at temperatures above the flashpoint. Use water spray to keep fire-exposed containers cool. Containers may explode in the heat of a fire.
<b>Flash Point:</b>	30°C
<b>Extinguishing media and methods:</b>	For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam. For large fires, use water spray, fog, or alcohol-resistant foam. Use water spray to cool fire-exposed containers. Water may be ineffective. Do NOT use straight streams of water.
<b>Hazchem code:</b>	3.1
<b>Recommended protective clothing:</b>	Wear PVC protective clothing and breathing apparatus for fire fighting if necessary.
SECTION 6: ACCIDENTAL RELEASE MEASURES	
<b>Emergency procedures:</b>	Wear protective clothing. Clear area of unprotected personnel. Contain spill and absorb with sand, soil or absorbent granules. Do not allow product or washings to enter the waterways or sewer. If spill does enter waterways contact the local authority. Collect in an appropriate sealable container for disposal in an approved landfill.
SECTION 7: HANDLING AND STORAGE	
<b>Handling procedures:</b>	Use only in a well-ventilated area. Ground and bond containers when transferring material. Use spark-proof tools and explosion proof equipment. Avoid contact with eyes. Avoid contact with heat, sparks and flame. Avoid ingestion and inhalation.
<b>Storage procedures:</b>	Keep away from heat, sparks, and flame. Keep away from sources of ignition. Store in a tightly closed container. Keep from contact with oxidizing materials. Store in a cool, dry, well-ventilated area away from incompatible substances.
SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION	
<b>Workplace exposure standards:</b>	No exposure limits have been specifically assigned for this product.
<b>Application in the workplace:</b>	As instructed in directions product can be used in the workplace as directed
<b>Engineering controls:</b>	An adequate supply of water should be available in storage and handling areas. Facilities storing or utilising this material should be equipped with an eyewash facility.
<b>Personal protection:</b>	Avoid excessive contact. Wash contaminated clothing before storage or reuse. Product can be used as cleaner and sanitiser as directed after handling and before eating, drinking or smoking.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

<b>Physical State:</b>	Colourless clear liquid.
<b>Odour:</b>	A fresh and pleasant scented fragrance
<b>Solubility in Water</b>	Soluble in water
<b>Specific Gravity</b>	~0.869g/mL @ 20°C
<b>Boiling Point</b>	78°C
<b>Flash Point</b>	30°C
<b>Viscosity</b>	Data Not available at published date
<b>Molecular weight</b>	Data Not available at published date
<b>pH</b>	Data Not available at published date

**SECTION 10: STABILITY AND REACTIVITY**

<b>Stability of the substance:</b>	Stable product under normal conditions, temperatures and pressures
<b>Conditions to avoid:</b>	Incompatible materials, ignition sources, excess heat, oxidizers
<b>Material to avoid:</b>	Do not mix with any other liquid other than water. Avoid anionic materials.
<b>Hazardous decomposition products:</b>	Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide, silicon dioxide.
<b>Hazardous polymerization:</b>	Will not occur
<b>Specific data:</b>	N/A at time of published date

**SECTION 11: TOXICOLOGICAL INFORMATION**

**Summaries Data:** Colourless Clear Liquid, Cleaning Sanitising and Antimicrobial Protectant Solution

<b>Product Components:</b>	<b>INGREDIENT</b>	<b>CAS #</b>	<b>Toxicological Summary</b>
	ETHYL ALCOHOL	64-17-5	Medium toxicity. Not classifiable as carcinogenic to humans – toxic to bacteria
	BENZYLKONIUM CHLORIDE	61789-71-1	Low – medium toxicity. Not known as carcinogenic to humans – toxic to bacteria
	Octadecyldimethyl (3-Trimethoxysilylpropyl) Ammonium Chloride	27668-52-6	Very low toxicity and Not known as carcinogenic – toxic to bacteria
	EDIBLE SUCROSE ESTER SURFACTANT;	Proprietary	N/A
	Aqua pura - Water	7732-18-5	N/A
	Fragrance	Proprietary	N/A

<b>Effects of Acute Exposure:</b>	<p>Eye Contact: content could cause permanent damage.</p> <p>Skin Contact: No health effects expected.</p> <p>Inhalation: If mists or vapour inhaled, could cause irritation due to ethanol content.</p> <p>Ingestion: Harmful. Burning pain in mouth and throat and oesophagus.</p> <p>Other Health Effects: Some individuals may be sensitive to this product.</p>
<b>Effects Of Chronic Exposure:</b>	None Known

**SECTION 12: ENVIRONMENTAL INFORMATION**

<b>Potential environmental interactions:</b>	Harmful to fish. Do not contaminate drains or waterways
<b>Environmental Risk &amp; Safety :</b>	N/A at time of published date

SECTION 13: DISPOSAL CONSIDERATIONS	
<b>Recycle container in accordance with local bylaws where possible.</b>	<p><u>Product Disposal:</u> To avoid disposal all attempts should be made to utilise the product completely in accordance with its registered use. Prevent the product from entering natural water sources.</p> <p><u>Container Disposal:</u> Burn empty container if wind direction permits, otherwise bury in a suitable landfill.</p>
SECTION 14: TRANSPORT INFORMATION	
<b>Relevant Information:</b>	<p>Falls within HSNO Classification 3 as Flammable liquid.</p> <p>Special provisions for transport not available at published time and date.</p>
SECTION 15: REGULATORY INFORMATION	
<p><b>Labelling Information (EEC Regulations Safety Phrases as per label):</b></p> <p><b>HSNO controls:</b></p> <p><b>NZFSA controls:</b></p> <p><b>Preservative Efficacy:</b></p>	<p>S2 Keep out of reach of children</p> <p>S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice</p> <p>S46 If swallowed, wash out mouth, then drink plenty of water. Seek medical advice immediately and show the container label.</p> <p>Refer Section 3</p> <p>NZFSA (New Zealand Food Safety Authority) Approved to code C32 and C52 - All animal products except dairy</p> <p>Complies to International guidelines laid out for BP2009 Preservative Efficacy as documented accession No. 10N016452</p>
SECTION 16: OTHER INFORMATION	
<b>Additional Information</b>	<p>For product information visit the <a href="http://www.isotechnologies.co.nz">www.isotechnologies.co.nz</a> or <a href="http://www.isoshield.com">www.isoshield.com</a> website.</p> <p>While the information set forth is believed to be accurate as of the date hereof, ISO TECHNOLOGIES LTD. makes no warranty with respect hereto and disclaims all liability from reliance thereon</p>
<b>Revision Number and Date:</b>	<p>Original Date of Preparation 20 June 2010</p> <p>This amended version (V2) dated 25 August 2010</p>