Duralex Paints Pty Ltd
ABN: 17 000 392 227
3 Muriel Avenue,
Rydalmere, NSW, 2116
Phone: 02 9638 0568

SAFETY DATA SHEET INFORMATION

For further information: Please refer to the Safety Data Sheet following

Issue: May 20

PRODUCT: Hand and Surface Sanitiser

Other Names: World Health Organisation (WHO) recommended formulation for Hand Sanitiser

Uses: Hand and Surface Sanitiser

Signal Word: DANGER

UN No.:	1170
Dangerous Goods Class:	3
Subsidiary Risk:	None
Packing Group:	II
Hazchem Code:	·2YE
Poisons Schedule:	None

Hazardous Nature:	Highly flammable
Hazard Statement:	Highly flammable
GHS Classification:	Flammable liquid Category 2, Eye irritation Category 2A

Physical Characteristics (Typical) — Section 9 of the SDS

Appearance	Clear liquid
Boiling Point/Range (°C):	>80°C
Flash Point (°C):	>35°C
Specific Gravity/Density (g/ml @ 15°C):	0.92
pH:	Not available
Chemical Stability:	Stable
Reactivity:	Avoid oxidising agents

Product Ingredients — Section 3 of the SDS

Ingredient	CAS Number	Proportion
Ethanol	64-17-5	80
Hydrogen Peroxide	7722-84-1	0.125
Glycerol	56-81-5	1.45
For further ingredients information, please refer to the full MSDS		

GHS Pictograms — Section 2 of the SDS

DEFINITIONS

Dangerous Goods	Products that are regulated for transport under the UN International guidelines are classified as Dangerous Goods. Products can be classified by their physical characteristics and may have only one Dangerous Goods designation, although may have a subsidiary risk. These products may be Dangerous Goods for transport by Air and Sea, but may not be classed as Dangerous Goods by Road and Rail in Australia. Refer to the Australian Code for Transport of Dangerous Goods by Road and Rail (ADG) for more information.
Hazardous Substances	Hazardous Substances are those products that are intrinsically hazardous by virtue of their chemical nature, rather than as a condition of their misuse. These hazards include mutagens, teratogens, carcinogens, and products that are harmful or irritant in nature. These products may or may not carry a Dangerous Goods classification.
Poisons	Poisons are products that are regulated by the dose or exposure, often having physical and chemical effects at certain concentrations particular to the nature of the product. The associated warnings, cautions and First Aid instruction are prescriptive under the regulation in Australia.

SUMMARY INFORMATION ONLY

1. IDENTIFICATION

Product Name: Hand and Surface Sanitiser
Other Names: World Health Organisation (WHO) recommended formulation for Hand Sanitiser

Molecular Formula: Not known
Recommended Use: Hand and Surface Sanitiser
Supplier: Duralex Paints Pty Ltd
ABN: 17 000 392 227
Address: 3 Muriel Avenue, Rydalmere NSW 2116
Telephone: +61 2 9638 0569
Fax: +61 2 9638 0569
Emergency Phone: **+61 2 9638 0569**
All other inquiries: +61 2 9638 0569

2. HAZARDS IDENTIFICATION

Hazard Nature

Highly Flammable

Hazard Category

Hazardous chemical. Dangerous goods according to the WHS regulations and the ADG code

GHS Classification:

Flammable liquid Category 2, Eye irritation Category 2A

GHS Pictograms

Hazard Statement

Highly flammable

Hazard Statements

H225: Highly flammable liquid and vapour
H319: Causes serious eye irritation

Precautionary Statements

P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking
P233: Keep container tightly closed
P243: Take precautionary measures against static discharge
P280: Wear protective gloves/protective clothing/eye protection/face protection
P370+P378: In case of fire: Use alcohol resistant foam or normal protein foam for extinction
P305+P351+P338: If eye irritation persists: get medical attention/advice
P303+P361+P353: IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower
P403+P235: Store in a well ventilated place. Keep cool.
P501: Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation

Dangerous Goods Classification 3

Poisons Schedule Not Scheduled

Signal Word Danger

3. COMPOSITION: Information on Ingredients

Chemical Ingredient	CAS Number	Proportion (% v/v)
Ethanol	64-17-5	80
Glycerol	56-81-5	1.45
Hydrogen Peroxide	7722-84-1	0.125
Water	7732-18-5	Balance to 100

4. FIRST AID MEASURES

For advice, contact Poisons Information Centre (Phone Australia: 13 1126) or a doctor.

Ingestion

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. Give water to rinse out mouth. Never give fluid to a person showing signs of being sleepy or with reduced awareness. Seek medical advice.

Eye Contact

If this product comes into contact with the eyes; wash out immediately with fresh running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye. Seek medical attention without delay; if pain persists or recurs seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

Skin Contact

If prolonged or accidental skin contact occurs; immediately remove all contaminated clothing including foot ware. Flush skin and hair with running water (and soap if available). Seek medical attention in the event of irritation.

Inhalation

If fumes or combustion products are inhaled remove from contaminated area. Lay patient down and keep warm and rested. Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device or pocket mask as trained.

Medical Attention

For acute or short term repeated exposures to ethanol: acute ingestion in no-tolerant patients usually responds to supportive care with special attention to prevention of aspiration, replacement of fluid and correction of nutritional deficiencies (magnesium, thiamine pyridoxine, Vitamins C and K).

Give 50% Dextrose (50-100mL) IV to obtunded patients following blood draw for glucose determination

Fructose administration is contra-indicated due to side effects.

5. FIRE FIGHTING MEASURES

Shut off product that may ‘fuel’ a fire if safe to do so. Allow trained personnel to attend a fire in progress providing fire fighters with this Safety Data Sheet. Prevent extinguishing media from escaping to drains and waterways.

Suitable Extinguishing Media

Alcohol stable foam

Dry chemical powder

BCF (where regulations permit)

Carbon Dioxide

Water spray or fog – Large fires only

Hazards from combustion products

Avoid contamination with oxidising agents i.e nitrates, oxidising acids, chlorine bleaches, pool chlorine etc as ignition may result.

Precautions for fire fighters and special protective equipment

Liquid and vapour are highly flammable Severe fire hazard when exposed to heat, flame and oxidisers. Vapour may travel a considerable distance to source of ignition.

Hazchem Code

·2YE

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures

Prevent product from escaping to drains and waterways. Contain leaking packaging in a containment drum. Prevent vapours or dusts from building up in confined areas. Ensure that drain valves are closed at all times. Clean up and report spills immediately.

Methods and materials for containment

Major Land Spill

- Eliminate sources of ignition.
- Warn occupants of downwind areas of possible fire and explosion hazard, where present.
- Prevent product from entering sewers, watercourses, or low-lying areas.
- Keep the public away from the area.
- Shut off the source of the spill if possible and safe to do so.
- Advise authorities if substance has entered a watercourse or sewer or has contaminated soil or vegetation.
- Take measures to minimise the effect on the ground water.
- Contain the spilled product using the resources in the spill kit.
- Recover by pumping – use explosion proof pump or hand pump – or with a suitable absorbent material.
- Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.
- See “First Aid Measures” and “Stability and Reactivity”

Major Water Spill

- Eliminate any sources of ignition.
- Warn occupants and shipping in downwind areas of possible fire and explosion hazard, where present.
- Notify the port or relevant authority and keep the public away from the area.
- Shut off the source of the spill if possible and safe to do so.
- Confine the spill if possible.
- Remove the product from the surface by skimming or with suitable absorbent material.
- Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.
- See “First Aid Measures” and “Stability and Reactivity”.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Containers, even ones that are empty, may contain explosive vapours. Do not cut, drill, grind, weld or perform similar operations on or near containers. DO NOT allow clothing wet with material to stay in contact with the skin. Do not eat, drink or smoke when handling. Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions.

Conditions for Safe Storage

Store only in packing as supplied by manufacturer. Check that containers are clearly labelled and free from leaks.

Incompatible Materials

Avoid oxidising agents, acids, chlorines, chloroformates. Avoid strong bases.

8. EXPOSURE CONTROLS: PERSONAL PROTECTION

National Exposure Standards

The time weighted average concentration (TWA) for this product is: 1000ppm/1880mg/m³, which means the highest allowable exposure concentration in an eight-hour day for a five-day working week. The short term exposure limit (STEL) is: not available, which is the maximum allowable exposure concentration at any time.

Replacing a TWA or STEL value for some products is a Peak Limitation value (Peak): not available applies in this case.

Biological Limit Values (BLV)

Not assessed

Engineering Controls: Ventilation

The use of local exhaust ventilation is recommended to control process emissions near the source. Laboratory samples should be handled in a fume hood. Provide mechanical ventilation of confined spaces. Use explosion proof equipment.

Personal Protective Equipment

Respiratory Protection: Where concentrations in air may approach or exceed the limits described in the National Exposure Standards, it is recommended to use a half-face filter mask to protect from overexposure by inhalation. A type 'A' filter material is considered suitable for this product.

Eye Protection: Always use safety glasses or a face shield when handling this product.

Skin/Body Protection: Always wear long sleeves, long trousers, or coveralls, and enclosed footwear or safety boots when handling this product. It is recommended that chemical resistant gloves be worn when handling this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Unit of measurement	Typical Value
Appearance	None	Clear liquid
Boiling Point/Range	°C	>80
Flash Point	°C	>35
SG/Density (@ 15°C)	g/ml; kgm^{-3}	0.825
Vapour Pressure @ 20°C	kPa	6.5
Vapour Density @ 20°C	g/ml; kgm^{-3}	Not available
Autoignition Temperature	°C	430
Explosive Limits in Air	% vol/vol	Not available
Viscosity @ 20°C	cPs, mPas	Not available
Percent volatiles	% vol/vol	80
Acidity/alkalinity as pH	None	Not available
Solubility in Water	g/l	Miscible
Other solvents	-	Yes

The values listed are indicative of this product's physical and chemical properties. For a full product specification, please consult the Technical Data Sheet.

10. STABILITY AND REACTIVITY

Chemical stability

Unstable in the presence of incompatible materials. Product is considered stable.

Conditions to avoid

See section 7

Hazardous decomposition products

See section 7

Hazardous reactions

See section 7

Hazardous polymerisation

Will not occur

11. TOXICOLOGICAL INFORMATION

Acute Effects

Ingestion

Accidental ingestion of the material may be damaging to the health of the individual. Ingestion of Ethanol may produce nausea, vomiting gastrointestinal bleeding, abdominal pain and diarrhoea.

Eye Contact

May cause severe eye irritation in a substantial number of individuals or may produce ocular lesions. Corneal injury may occur. Permanent injury may occur unless prompt and adequate treatment is given.

Skin Contact

The material may produce moderate skin irritation in a moderate number of individuals. May produce contact dermatitis in a number of individuals. Open cuts, abraded or irritated skin should not be exposed to this material.

Inhalation

Inhalation of vapours, aerosols (mists, fumes) generated by the material during the course of normal handling may be damaging to health. May produce irritation of the respiratory system.

Acute effects from inhalation of high concentrations of vapour are pulmonary irritation, including coughing with nausea, central nervous system depression characterised by headache, dizziness fatigue and loss of co-ordination.

Chronic Effects

Limited evidence suggests that repeated or long-term occupational exposure may produce cumulative health effects involving organs or biochemical systems.

Toxicological Information

Oral LD_{50}: 1500 mg/kg Rat

Dermal LD_{50}: 2000 mg/kg Rabbit

12. ECOLOGICAL INFORMATION

Ecotoxicity

Aquatic Toxicity:

Fish Toxicity LC_{50}:	11 mg/L
Daphnia Magna EC_{50}:	2 mg/L
Blue-green algae:	17.92 mg/L
Green algae:	17.92 mg/L

Persistence/Biodegradability: Low (Half-life = 2.17 days)

Mobility: High

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Empty packaging should be taken for recycling, recovery or disposal through a suitably qualified or licensed contractor. Care should be taken to ensure compliance with national and local authorities. Packaging may still contain product residue that may be harmful. Ensure that empty packaging is managed in accordance with Dangerous Goods regulations.

Special Precautions

This product is not suitable for disposal by either landfill or via municipal sewers, drains, natural streams or rivers. This product should be treated and disposed through chemical waste treatment, or considered for use in recycling.

DO NOT allow wash water from cleaning to enter drains.

14. TRANSPORT INFORMATION

Road and Rail Transport		Marine Transport		Air Transport	
UN No.	1170	**UN No.**	1170	**UN No.**	1170
Proper Shipping Name	Ethanol Solution	**Proper Shipping Name**	Ethanol Solution	**Proper Shipping Name**	Ethanol Solution
DG Class	3	**DG Class**	3	**DG Class**	3
Sub. Risk	None	**Sub. Risk**	None	**Sub. Risk**	None
Packing Group	II	**Packing Group**	II	**Packing Group**	II
Hazchem	·2YE	**Hazchem**	·2YE	**Hazchem**	·2YE

Dangerous Goods Segregation

Sources of ignition

15. REGULATORY INFORMATION

Country/Region: Australia

Inventory: AICS

Status: Listed

Poisons Schedule: Not scheduled

16. OTHER INFORMATION

Reasons for Issue: First production.

Abbreviations:

AICS: Australian Inventory of Chemical Substances

CAS Number: Chemical Abstracts Number

GHS: Global Harmonised System

IARC: International Agency for Research on Cancer

PPE: Personal Protective Equipment

N/R: Non-regulated

N/A: Not applicable

UN: United Nations

References:

- Supplier Safety Data Sheets
- http://hsis.safework.gov.au/SearchHS.aspx (May 20)
- Animal toxicology data: http://chem.sis.nlm.nih.gov/chemidplus (May 20)
- Ecotoxicology data: http://cfpub.epa.gov/ecotox/quick_query.htm (May 20)
- *Sax's Dangerous Properties of Industrial Materials*, Richard J Lewis Snr., pub. Canada (2005)

The information sourced for the preparation of this document was correct and complete at the time of writing to the best of the writer's knowledge. The document represents the commitment to the company's responsibilities surrounding the supply of this product, undertaken in good faith. This document should be taken as a safety guide for the product and its recommended uses, but is in no way an absolute authority. Please consult the relevant legislation and regulations governing the use and storage of this type of product. For further information, please contact Duralex Paints Pty Ltd.