# Material Safety Data Sheet

**Infosafe No.** LPYRU  
**Issue Date:** March 2010  
**ISSUED by:** SCAHYGIE

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

<table>
<thead>
<tr>
<th>Product Name</th>
<th>TORK PREMIUM HAND SANITIZER ALCOHOL GEL S1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Code</td>
<td>420101</td>
</tr>
<tr>
<td>Company Name</td>
<td>SCA AUSTRALASIA - AWAY FROM HOME</td>
</tr>
<tr>
<td>Address</td>
<td>30-32 Westall Road Springvale, Victoria 3171, Australia</td>
</tr>
<tr>
<td>Emergency Tel.</td>
<td>+61 3 9550 2999 (BH)</td>
</tr>
<tr>
<td>Telephone/Fax</td>
<td>Tel: +61 3 9550 2999 Fax: +61 3 9547 8165</td>
</tr>
</tbody>
</table>
| Other Information | NEW ZEALAND:  
SCA Hygiene Australasia AFH  
Level 1, 6 Alderman Drive  
Henderson 6, Auckland  
Phone: +64 9 837 6400 Fax: +64 9 837 0205  
Emergency Advice: +64 9 837 6400 (BH) or Mobile: +61 404 480 387 |

## 2. HAZARDS IDENTIFICATION

| Hazard Classification | Not classified as hazardous Australia:  
Not classified as Hazardous according to criteria of National Occupational Health & Safety Commission, Australia (NOSHC).  
Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.  
New Zealand:  
Classified as Hazardous according to the Hazardous Substances (Classification) Regulations 2001, New Zealand.  
Classified as Dangerous Goods for transport, according to the NZS 5433:2007 Transport of Dangerous Goods on Land.  
HSNO Classification:  
3.1B - Substance that is a flammable liquid: High hazard.  
6.4A - Substance that is irritating to the eye.  
9.1D - Substance that is slightly harmful to the aquatic environment. |
|-----------------------|--------------------------------------------------------------------------------|
| Hazard Statement Codes: | H226 Flammable liquid and vapour.  
H320 Causes eye irritation.  
H402 Harmful to aquatic life. |
| Precautionary Statement Codes - Prevention: | P102 Keep out of reach of children. - This statement applies only where the substance is available to the general public.  
P103 Read label before use. - This statement applies only where the substance is available to the general public.  
P104 Read Safety Data Sheet before use.  
P210 Keep away from heat, sparks, open flames and hot surfaces. No smoking.  
P224 Keep container tightly closed.  
P240 Ground/bond container and receiving equipment.  
P241 Use explosion-proof electrical, ventilating and lighting equipment.  
P242 Use only non-sparking tools.  
P243 Take precautionary measures against static discharge.  
P264 Wash hands thoroughly after handling.  
P273 Avoid release to the environment.  
P280 Wear protective gloves, eye protection and face protection. |
| Precautionary Statement Codes - Response: | P303+P361+P353 IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.  
P370+P378 In case of fire: Use foam, CO2, dry chemical, water fog.  
EYE |
Material Safety Data Sheet

Product Name: TORK PREMIUM HAND SANITIZER ALCOHOL GEL S1

Risk Phrase(s)
Not classified as hazardous

Safety Phrase(s)
R11 Highly flammable.
S16 Keep away from sources of ignition - No smoking.
S2 Keep out of reach of children.
S25 Avoid contact with eyes.
S46 If swallowed, seek medical advice immediately and show this container or label.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>Name</th>
<th>CAS</th>
<th>Proportion</th>
<th>Hazard Symbol</th>
<th>Risk Phrase</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Ethanol</td>
<td>64-17-5</td>
<td>&gt;60 %</td>
<td>T, Xi, F</td>
<td>R10, R11, R20, R21, R22, R36, R37, R38, R41, R45(2), R48, R52, R53</td>
</tr>
<tr>
<td></td>
<td>2-Propanol</td>
<td>67-63-0</td>
<td>1-&lt;10 %</td>
<td>To 100%</td>
<td>R10, R11, R20, R21, R22, R36, R37, R38, R41, R45(2), R48, R52, R53</td>
</tr>
</tbody>
</table>

Ingredients determined not to be hazardous, including water.

4. FIRST AID MEASURES

Inhalation
Not a likely route of exposure, however, if breathing is effected, remove to fresh area. Keep at rest until recovered. If symptoms persist seek medical attention.

Ingestion
Do not induce vomiting. Immediately wash mouth out with copious amount of water. Seek medical attention.

Skin
Not likely to affect normal skin. Wash gently and thoroughly with water. If irritation develops and persists, seek medical attention.

Eye
If in eyes wash out immediately with water. Continue flushing for several minutes until all contaminants are washed off completely. Seek medical attention.

First Aid Facilities
Eye wash station and normal washroom facilities.

Advice to Doctor
Treat symptomatically.

Other Information
For advice in an emergency, contact a Poisons Information Centre (Phone Australia 13 1126; New Zealand 0800 764 766) or a doctor at once.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media
Water fog, foam, carbon dioxide or dry chemical.

Extinguishing Media
Under fire conditions this product may emit toxic and/or irritating fumes including carbon monoxide and carbon dioxide.

Combustion Products
This product is highly flammable. Vapour/air mixtures may ignite explosively. Flashback along the vapour trail may occur. Runoff to sewer may create fire or explosion hazard. Remove all sources of ignition. Take precautions to
Material Safety Data Sheet

Issued by SCAHYGIE

Product Name: TORK PREMIUM HAND SANITIZER ALCOHOL GEL S1

Not classified as hazardous

Hazchem Code: 2[Y]E

Precautions in connection with Fire

Fire-fighters should wear full protective clothing and self contained breathing apparatus (SCBA) operated in positive pressure mode. Water spray may be used to keep fire exposed containers cool.

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures

Exclude sources of ignition and ventilate the area. Clear area of all unprotected personnel. Slippery when spilled. Avoid accidents, clean up immediately. Wear protective clothing and equipment to prevent skin and eye exposure and inhalation of vapours. Contain - prevent run off into drains and waterways. Place non-combustible, inert absorbent material onto spillage. Use clean, non-sparking tools to collect the material and place into suitable labelled containers for the subsequent recycling or disposal. Dispose of waste according to the applicable local and national regulations. If contamination of sewers or waterways occurs inform the local water authorities and EPA in accordance with local regulations.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Wear appropriate protective clothing and equipment to prevent inhalation, skin and eye contact. Handle and use the material in a well-ventilated area, away from sparks, flames and other ignition sources. Have emergency equipment (for fires, spills, leaks, etc.) readily available. Work from suitable, labelled, fire-resistant containers. Keep containers closed when not in use. Flameproof equipment is necessary in areas where the product is being used. Do not empty into drains. Maintain a high level of personal hygiene when using the product, that is, always wash hands after handling, and before eating, drinking, smoking or using the toilet facilities. For hand disinfection: Use 3 ml of the product, distributed in and between the fingers, hands, back and palm and around the wrists. Rub until the skin is completely dry during a contact time of at least 30 seconds. For maximum effect, a repeat of the procedure is recommended (2x3 ml of the product and 2x30 seconds of contact time).

Conditions for Safe Storage

Store in a cool, dry, well-ventilated area away from sources of ignition, oxidising agents, foodstuffs, and clothing, and out of direct sunlight. Keep containers closed when not in use and securely sealed and protected against physical damage. Inspect regularly for deficiencies such as damage or leaks. Have appropriate fire extinguishers available in and near the storage area. Take precautions against static electricity discharges. Use proper grounding procedures. For information on the design of the storeroom, reference should be made to Australian Standard AS1940 - The storage and handling of flammable and combustible liquids. Reference should also be made to all State and Federal regulations.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards

No exposure standards have been established for this material by the Australian National Occupational Health & Safety Commission (NOHSC) or the Occupational Safety and Health Service (OSH) of the New Zealand Department of Labour. However, the exposure standards for the ingredients are stated below:

Australian National Occupational Health And Safety Commission (NOHSC) Exposure Standards:

<table>
<thead>
<tr>
<th>Substance</th>
<th>TWA (ppm)</th>
<th>STEL (mg/m³)</th>
<th>TWA (ppm)</th>
<th>STEL (mg/m³)</th>
<th>Notices</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol</td>
<td>1000</td>
<td>1880</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2-Propanol</td>
<td>400</td>
<td>983</td>
<td>500</td>
<td>1230</td>
<td>-</td>
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New Zealand Occupational Safety and Health Service (OSH) Workplace Exposure Standards:

<table>
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<tr>
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<th>TWA (ppm)</th>
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As published by the National Occupational Health and Safety Commission (NOHSC) and the New Zealand Occupational Safety and Health Service (OSH).
TWA (Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week.

STEL (Short Term Exposure Limit): The average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday.

No biological limit allocated.

Biological Limit Values

Engineering Controls

No special engineering controls required. However, under industrial applications, provide sufficient ventilation to keep airborne levels to the lowest possible levels. Where vapours or mists are generated, the use of respiratory protection, or a local exhaust ventilation system is recommended.

Respiratory Protection

Not required under normal conditions of use. Industrial Applications: If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable organic vapour filter should be used. Reference should be made to Australian/New Zealand Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

Eye Protection

Not required under normal conditions of use. Industrial Applications: The use of safety glasses as appropriate when handling large quantities. Refer to Australian Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.

Hand Protection

Not required under normal conditions of use. The product is a hand cleaning/sanitizing agent.

Body Protection

No special protective clothing required under normal conditions of use. Industrial applications: Suitable protective clothing should be worn e.g. cotton overalls buttoned at neck and wrist. Industrial clothing should conform to the specifications detailed in AS/NZS 2919: Industrial clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance
Colourless liquid/gel.

Odour
Characteristic alcohol odour.

Melting Point
Not available

Boiling Point
78°C (for Ethanol)

Solubility in Water
Completely miscible

pH Value
5.5 (for concentrate)

Vapour Pressure
5.8 kPa at 20°C (for Ethanol)

Vapour Density (Air=1)
1.59 at 15°C (for Ethanol)

Evaporation Rate
2.53 (n-Butyl acetate=1) (for Ethanol)

Viscosity
11500 cP

Density
0.87 g/cm³

Flash Point
21°C (Closed cup)

Flammability
Highly flammable liquid.

Auto-Ignition Temperature
392°C (for Ethanol)

Flammable Limits - Lower
3.5% (for Ethanol)

Flammable Limits - Upper
19% (for Ethanol)

10. STABILITY AND REACTIVITY

Chemical Stability
Stable under normal conditions of storage and handling.

Conditions to Avoid
Heat, direct sunlight, open flames or other sources of ignition.
Product Name: TORK PREMIUM HAND SANITIZER ALCOHOL GEL S1

Not classified as hazardous

Incompatible Materials: Strong oxidising agents.

Decomposition Products: Carbon monoxide, carbon dioxide, fumes, smoke.

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Toxicology Information:

No toxicity data are available for this specific product. The available data for the ingredients are as follows:

For Ethanol:
- LD50 (Oral, Rat): 7060 mg/kg
- LD50 (Oral, Rabbit): 6300 mg/kg
- LC50 (Inhalation, Rat): 20000 ppm/10h

Inhalation: May cause irritation to the respiratory tract and mucous membranes. Inhalation of the vapour may result in headache, nausea and vomiting. High concentrations may cause central nervous system symptoms similar to those of ingestion.

Ingestion: Ingestion of this product may irritate the gastric tract causing nausea and vomiting. Other effects may include excitation, headache, dizziness, drowsiness, blurred vision and fatigue.

Skin: The product was tested for skin irritation. No skin irritation was observed.

Eye: May be irritating to eyes. On eye contact this product may cause tearing, stinging, blurred vision, and redness.

Chronic Effects: Prolonged or repeated skin contact may cause defatting leading to dermatitis. Long term exposure by swallowing or repeated inhalation may cause degenerative changes in the liver, kidney, gastrointestinal tract and heart muscle. Chronic exposure to vapours may also result in central nervous system disorders.

12. ECOLOGICAL INFORMATION

Ecotoxicity: Not available

Persistence / Degradability: Not available

Mobility: Not available

Bioaccumulative Potential: Not available

Environ. Protection: Do not discharge product into drains, sewers or waterways.

13. DISPOSAL CONSIDERATIONS

Disposal Considerations: The spilled or waste material must be disposed of in accordance with relevant local, state and federal regulations.

14. TRANSPORT INFORMATION

Transport Information:

Australia: This material is classified as a Class 3 (Flammable Liquid) Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. Dangerous goods of Class 3 (Flammable Liquid) are incompatible in a placard load with any of the following:
- Class 1, Explosive
- Class 2.1, Flammable Gas, if both the Class 3 and Class 2.1 dangerous goods are in bulk
- Class 2.3, Toxic Gas
- Class 4.2, Spontaneously Combustible Substance
- Class 5.1, Oxidising Agent
- Class 5.2, Organic Peroxide
- Class 6, Toxic and Infectious Substances, if the Class 3 dangerous goods are nitromethane
- Class 7, Radioactive Substance

New Zealand: This material is classified as a Class 3 - Flammable Liquid according to NZS
Material Safety Data Sheet

Product Name: TORK PREMIUM HAND SANITIZER ALCOHOL GEL S1

Not classified as hazardous

Must not be loaded in the same freight container or on the same vehicle with:
- Class 1, Explosives
- Class 2.1, Flammable gases
- Class 2.3, Toxic gases
- Class 4.2, Spontaneously combustible substances
- Class 5.1, Oxidising substances
- Class 5.2, Organic peroxides or
- Class 7, Radioactive materials unless specifically exempted.
Must not be loaded with in the same freight container; and on the same vehicle
must be separated horizontally by at least 3 metres unless all but one are
packed in separate freight containers with:
- Class 4.3, Dangerous when wet substances
Goods of packing group II or III may be loaded in the same freight container
or on the same vehicle if transported in segregation devices with:
- Class 4.2, Spontaneously combustible substances
- Class 4.3, Dangerous when wet substances
- Class 5.1, Oxidising substances
- Class 5.2, Organic peroxides

U.N. Number
1170

Proper Shipping Name
ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

DG Class
3

Hazchem Code
2[Y]E

Packaging Method
3.8.3RT1

Packing Group
II

EPG Number
3A1

IERG Number
14

15. REGULATORY INFORMATION

Regulatory Information
Australia:
Not classified as Hazardous according to criteria of National Occupational
Health & Safety Commission (NOHSC), Australia.
Not classified as a Scheduled Poison according to the Standard for the Uniform
Scheduling of Drugs and Poisons (SUSDP).

Poisons Schedule
Not Scheduled

National and or International Regulatory Information
New Zealand:
Classified as Hazardous according to the New Zealand Hazardous Substances

Cosmetic Products Group Standard 2006
HSNO Approval Number: HSR002552
All components of this product are listed on the New Zealand Inventory of
Chemicals (NZIOC).
European Union:
The product is classified and assessed according to: KIFS 2005:7 including
amendments, KIFS 2008:2 & 2008:3 including amendments.

Hazard Category
Highly Flammable

AICS (Australia)
All components of this product are listed on the Australian Inventory of
Chemical Substances (AICS).

16. OTHER INFORMATION

Date of preparation or last revision of MSDS
MSDS Reviewed: March 2010

...End Of MSDS...
Product Name: **TORK PREMIUM HAND SANITIZER ALCOHOL GEL S1**

Not classified as hazardous