SAFETY DATA SHEET



1. Identification

Product name : Dettol Hand Sanitizer - Refresh

 SDS no.
 : D8409748

 Formulation #
 : 3288636

 Supplier
 : AUSTRALIA

Reckitt Benckiser (Australia) Pty Ltd 680 George St , Sydney, NSW 2000

Tel: +61 (0)2 9857 2000

NEW ZEALAND

Tel: +64 9 484 1400

Reckitt Benckiser (New Zealand) Limited

2 Fred Thomas Drive, Takapuna Auckland, New Zealand 0622

Poison Information contact: : Australia - 13 11 26

New Zealand - 0800 764 766 or 0800 POISON

<u>Uses</u>

Product use : Hand Sanitiser.
Consumer use

2. Hazard identification

Classification of the substance or mixture

: FLAMMABLE LIQUIDS - Category 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A

GHS label elements
Hazard pictograms





Signal word : DANGER

Hazard statements : Highly flammable liquid and vapour.

Causes serious eye irritation.

Precautionary statements

General : Keep out of reach of children. If medical advice is needed, have product container

or label at hand.

Prevention: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking. Wash hands thoroughly after handling.

Response: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get

medical advice or attention.

In case of fire: Use CO2, dry sand, dry chemical or alcoholresistant foam to

extinguish(ONLY for professional and industrial use).

Storage : Keep container tightly closed, (ONLY for professional and industrial use).

Store in a well-ventilated place. Keep cool.

Disposal : Dispose of contents and container in accordance with all local, regional, national

and international regulations.

Date of issue : 05/09/2024 Page: 1/11

D8409748

3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	% (w/w)	CAS number
ethanol	≥60 - ≤75	64-17-5

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

The total concentration of ingredients in this product, reported or not in this section, is 100%.

Occupational exposure limits, if available, are listed in Section 8.

4. First-aid measures

Description of necessary first aid measures

Eye contact: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower

eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10

minutes. Get medical attention.

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen

tight clothing such as a collar, tie, belt or waistband.

Skin contact : Flush contaminated skin with plenty of water. Remove contaminated clothing and

shoes. Get medical attention if symptoms occur. Wash clothing before reuse.

Clean shoes thoroughly before reuse.

Ingestion: Wash out mouth with water. Remove dentures if any. If material has been

swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such

as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : Causes serious eye irritation.

Inhalation : No known significant effects or critical hazards.
 Skin contact : No known significant effects or critical hazards.
 Ingestion : No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact : Adverse symptoms may include the following:

pain or irritation watering redness

Inhalation: No specific data.Skin contact: No specific data.Ingestion: No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

Date of issue : 05/09/2024 Page: 2/11

4. First-aid measures

Specific treatments

: No specific treatment.

Protection of first-aiders

No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing

Use dry chemical, CO₂, water spray (fog) or foam.

media

Unsuitable extinguishing

media

: Do not use water jet.

Specific hazards arising from the chemical

: Highly flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.

Hazardous thermal decomposition products Decomposition products may include the following materials: carbon dioxide

carbon monoxide

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

•2YE

Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Hazchem code

: No action shall be taken involving any personal risk or without suitable training Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions

: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and material for containment and cleaning up

Small spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Date of issue : 05/09/2024 Page: 3/11

6. Accidental release measures

Large spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with noncombustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

7. Handling and storage

Precautions for safe handling

Protective measures

: Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

including any incompatibilities

Conditions for safe storage, : Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and wellventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

8. Exposure controls/personal protection

Control parameters

Australia

Occupational exposure limits

Ingredient name	Exposure limits
ethanol	Safe Work Australia (Australia, 12/2019). TWA: 1880 mg/m³ 8 hours. TWA: 1000 ppm 8 hours.

New Zealand

Occupational exposure limits

Date of issue : 05/09/2024 Page: 4/11 D8409748

8. Exposure controls/personal protection

Ingredient name	Exposure limits
ethanol	NZ HSWA 2015 - GRWM 2016 (New Zealand, 11/2020).
	WES-TWA: 1000 ppm 8 hours.
	WES-TWA: 1880 mg/m³ 8 hours.

Appropriate engineering controls

Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin protection

Hand protection

: Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance

Physical state : Liquid. [Gel Gelatinous precipitate.]

Colour : Green. [Light]
Odour : Characteristic.
Odour threshold : Not available.

pH : 6.5 to 8 [Conc. (% w/w): 100%]

Melting point/freezing point : Not available.

Date of issue : 05/09/2024 Page: 5/11

9. Physical and chemical properties

Boiling point, initial boiling

: >35°C (>95°F)

point, and boiling range

Flash point : Closed cup: 15.5°C (59.9°F)

Evaporation rate : Not available.
Flammability : Not available.
Lower and upper explosion : Not available.

limit/flammability limit

Vapour pressure : Not available.

Relative vapour density : Not available.

Relative density : 0.87 to 0.9

Density : 0.87 to 0.9 g/cm³ [25°C (77°F)]

Solubility(ies) :

Media	Result
cold water hot water	Easily soluble Easily soluble

Partition coefficient: n-

octanol/water

: Not applicable.

Auto-ignition temperature : N Decomposition temperature : N

Not available.Not available.

Viscosity :

: Dynamic: 3000 to 15000 mPa·s (3000 to 15000 cP)

Particle characteristics

Median particle size : Not applicable.

10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : The product is stable.

Possibility of hazardous

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld,

braze, solder, drill, grind or expose containers to heat or sources of ignition.

Incompatible materials : Reactive or incompatible with the following materials:

oxidising materials

Hazardous decomposition

products

Under normal conditions of storage and use, hazardous decomposition products

Page: 6/11

should not be produced.

11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
ethanol	LC50 Inhalation Vapour LD50 Oral	Rat Rat	124700 mg/m³ 7 g/kg	4 hours

Conclusion/Summary

Irritation/Corrosion

Based on test data, the classification criteria are not met.

Date of issue : 05/09/2024

11. Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
Dettol Hand Sanitizer - Refresh_3288636 D8409748 ANZ	Eyes - Irritant	Rabbit	-	-	-
	Skin - Not irritant	Rabbit	_	-	_
ethanol	Eyes - Mild irritant	Rabbit	_	24 hours 500	-
				mg	
	Eyes - Moderate irritant	Rabbit	-	0.066666667 minutes 100	-
	Eyes - Moderate irritant	Rabbit		mg 100 uL	_
	Skin - Mild irritant	Rabbit	_	400 mg	_
	Skin - Moderate irritant	Rabbit	_	24 hours 20	_
				mg	

Conclusion/Summary

Skin Non-irritant to skin.*Information is based on toxicity test result of a similar product.

Eyes Irritating to eyes.*Information is based on toxicity test result of a similar product.

Respiratory Based on available data, the classification criteria are not met.

Sensitisation

Product/ingredient name	Route of exposure	Species	Result
Dettol Hand Sanitizer - Refresh_3288636 _D8409748 ANZ	skin	Human	Not sensitizing

Conclusion/Summary

Skin Non-sensitiser to skin.*Information is based on toxicity test result of a similar

product.

Respiratory Based on available data, the classification criteria are not met.

Germ Cell Mutagenicity

Not available.

Conclusion/Summary Based on available data, the classification criteria are not met.

Carcinogenicity

Not available.

Conclusion/Summary Based on available data, the classification criteria are not met.

Reproductive toxicity

Not available.

Conclusion/Summary Based on available data, the classification criteria are not met.

Teratogenicity

Not available.

Conclusion/SummaryBased on available data, the classification criteria are not met.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Date of issue : 05/09/2024 Page: 7/11

11. Toxicological information

Information on likely routes : Not available.

of exposure

Potential acute health effects

Eye contact : Causes serious eye irritation.

Inhalation: No known significant effects or critical hazards.Skin contact: No known significant effects or critical hazards.Ingestion: No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Adverse symptoms may include the following:

redness

pain or irritation watering

Inhalation: No specific data.Skin contact: No specific data.Ingestion: No specific data.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

Conclusion/Summary Based on available data, the classification criteria are not met.

General : No known significant effects or critical hazards.
 Carcinogenicity : No known significant effects or critical hazards.
 Germ Cell Mutagenicity : No known significant effects or critical hazards.
 Teratogenicity : No known significant effects or critical hazards.
 Developmental effects : No known significant effects or critical hazards.
 Developmental effects : No known significant effects or critical hazards.
 Developmental effects : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Inhalation (vapours)	32 mg/l

Date of issue : 05/09/2024 Page: 8/11

12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
ethanol	Acute EC50 3306 mg/l Marine water Acute EC50 1074 mg/l Fresh water	Algae - Ulva pertusa Crustaceans - Cypris subglobosa	96 hours 48 hours
	Acute LC50 5680 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 11000000 μg/l Marine water	Fish - Alburnus alburnus	96 hours
	Chronic NOEC 4.995 mg/l Marine water Chronic NOEC 100 ul/L Fresh water	Algae - Ulva pertusa Daphnia - Daphnia magna - Neonate	96 hours 21 days

Conclusion/Summary

Based on available data, the classification criteria are not met.

Persistence and degradability

Conclusion/Summary

Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
ethanol	-	-	Readily

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
ethanol	-0.35	-	low

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects : No known significant effects or critical hazards.

13. Disposal considerations

Disposal methods

The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

14. Transport information

Date of issue : 05/09/2024 Page: 9/11

Transport information

	ADG	ADR/RID	IMDG	IATA
UN number	UN1170	UN1170	UN1170	UN1170
UN proper shipping name	ETHANOL SOLUTION	ETHANOL SOLUTION	ETHANOL SOLUTION	Ethanol solution
Transport hazard class(es)	3	3	3	3
Packing group	II	II	II	II
Environmental hazards	No.	No.	No.	No.

Additional information

ADG : Special provisions 144

Hazchem code •2YE

ADR/RID : Hazard identification number 33

Limited quantity 1 L

Special provisions 144, 601

Tunnel code (D/E)

IMDG : Emergency schedules F-E, S-D

Special provisions 144

IATA : Quantity limitation Passenger and Cargo Aircraft: 5 L. Packaging instructions: 353.

Cargo Aircraft Only: 60 L. Packaging instructions: 364. Limited Quantities -

Passenger Aircraft: 1 L. Packaging instructions: Y341.

Special provisions A3, A58, A180

Special precautions for user : Transport within user's premises: always transport in closed containers that are

upright and secure. Ensure that persons transporting the product know what to do in

the event of an accident or spillage.

Transport in bulk according: Not available. to IMO instruments

15. Regulatory information

Standard for the Uniform Scheduling of Medicines and Poisons

Not scheduled

Australian Inventory of Industrial Chemicals (AIIC) All components are listed or exempted.

New Zealand Inventory of Chemicals (NZIoC)

All components are listed or exempted.

HSNO Group Standard Cosmetic Products **HSNO Approval Number**

HSR002552

Approved Handler Requirement

No.

Tracking Requirement

No.

Date of issue : 05/09/2024 Page: 10/11

16. Other information

Key to abbreviations : ADG = Australian Dangerous Goods

ADR = The European Agreement concerning the International Carriage of

Dangerous Goods by Road

RID = The Regulations concerning the International Carriage of Dangerous Goods

IATA = International Air Transport Association IMDG = International Maritime Dangerous Goods

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IBC = Intermediate Bulk Container

SUSMP = Standard Uniform Schedule of Medicine and Poisons

UN = United Nations

SWA = Safe Work Australia

HSNO = Hazardous Substances and New Organisms Act 1996

Date of issue / Date of

revision

: 05/09/2024

Version : 1

(Version for updated GHS Revision 7 PSDS Template)

Procedure used to derive the classification

Classification	Justification
FLAMMABLE LIQUIDS - Category 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A	On basis of test data On basis of test data

References Not available.

Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Please read all labels carefully before using product.

Date of issue : 05/09/2024 Page: 11/11