

# **Alcohol Hand Sanitiser Spray**

### Nowchem

Version No: **1.3**Safety Data Sheet according to WHS and ADG requirements

### Chemwatch Hazard Alert Code: 3

Issue Date: **01/06/2016**Print Date: **01/06/2016**Initial Date: **31/05/2016**L.GHS.AUS.EN

## SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

### Product Identifier

Product name	Alcohol Hand Sanitiser Spray
Synonyms	Not Available
Proper shipping name	FLAMMABLE LIQUID, N.O.S.
Other means of identification	Not Available

### Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses For sanitising hands.

### Details of the supplier of the safety data sheet

Registered company name	Nowchem
Address	112A Albatross Road NSW Australia
Telephone	(02) 4421 4099
Fax	(02) 4421 4932
Website	www.nowchem.com.au
Email	sales@nowchem.com.au

### Emergency telephone number

Association / Organisation	Nowchem
Emergency telephone numbers	(02) 4421 4099
Other emergency telephone numbers	0413 809 255

### **SECTION 2 HAZARDS IDENTIFICATION**

## Classification of the substance or mixture

 ${\sf HAZARDOUS\ CHEMICAL.\ DANGEROUS\ GOODS.\ According\ to\ the\ WHS\ Regulations\ and\ the\ ADG\ Code.}$ 

### CHEMWATCH HAZARD RATINGS

	Min	Max	
Flammability	3		
Toxicity	0		0 = Minimum
Body Contact	0		1 = Low 2 = Moderate
Reactivity	1		3 = High
Chronic	0		4 = Extreme

Poisons Schedule	Not Applicable
Classification [1]	Flammable Liquid Category 2
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HSIS ; 3. Classification drawn from EC Directive 1272/2008 - Annex VI

Version No: **1.3** Page **2** of **9** Issue Date: **01/06/2016** 

### **Alcohol Hand Sanitiser Spray**

Print Date: **01/06/2016** 





SIGNAL WORD

DANGER

### Hazard statement(s)

H225 Highly flammable liquid and vapour
---

### Precautionary statement(s) Prevention

P101	If medical advice is needed, have product container or label at hand.
1 101	in included advice is needed, have product contained on laber at their d.
P102	Keep out of reach of children.
P103	Read label before use.
P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.
P233	Keep container tightly closed.
P240	Ground/bond 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.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

### Precautionary statement(s) Response

P370+P378	In case of fire: Use alcohol resistant foam or normal protein foam for extinction.
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

### Precautionary statement(s) Storage

P403+P235	Store in a well-ventilated place. Keep cool.

### Precautionary statement(s) Disposal

P501 Dispose of contents/container in accordance with local regulations.

## **SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS**

### Substances

See section below for composition of Mixtures

### Mixtures

CAS No	%[weight]	Name
64-17-5	>60	ethanol
108-10-1	<1	methyl isobutyl ketone

## **SECTION 4 FIRST AID MEASURES**

### Description of first aid measures

•	
Eye Contact	If this product comes in contact with eyes:  ► Wash out immediately with water.  ► If irritation continues, seek medical attention.  ► Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin irritation occurs:  ▶ Flush skin and hair with running water (and soap if available).  ▶ Seek medical attention.
Inhalation	<ul> <li>If furnes, aerosols or combustion products are inhaled remove from contaminated area.</li> <li>Other measures are usually unnecessary.</li> </ul>
Ingestion	<ul> <li>Immediately give a glass of water.</li> <li>First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.</li> </ul>

### Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

For acute or short term repeated exposures to ethanol:

- Acute ingestion in non-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 (50-100 ml) IV to obtunded patients following blood draw for glucose determination.
- Comatose patients should be treated with initial attention to airway, breathing, circulation and drugs of immediate importance (glucose, thiamine).
- ▶ Decontamination is probably unnecessary more than 1 hour after a single observed ingestion. Cathartics and charcoal may be given but are probably not effective in single ingestions.
- ► Fructose administration is contra-indicated due to side effects.

Version No: 1.3 Page 3 of 9 Issue Date: 01/06/2016

### **Alcohol Hand Sanitiser Spray**

Print Date: 01/06/2016

### **SECTION 5 FIREFIGHTING MEASURES**

### Extinguishing media

- Alcohol stable foam.
- Dry chemical powder.
- ► BCF (where regulations permit)
- Carbon dioxide.
- ▶ Water spray or fog Large fires only.

### Special hazards arising from the substrate or mixture

Fire Incompatibility

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

### Advice for firefighters

### Fire Fighting

▶ Liquid and vapour are highly flammable.

### Fire/Explosion Hazard

- Severe fire hazard when exposed to heat, flame and/or oxidisers.
- Vapour may travel a considerable distance to source of ignition.
- Heating may cause expansion or decomposition leading to violent rupture of containers
- On combustion, may emit toxic fumes of carbon monoxide (CO).

Combustion products include; carbon dioxide (CO2) other pyrolysis products typical of burning organic material

### **SECTION 6 ACCIDENTAL RELEASE MEASURES**

### Personal precautions, protective equipment and emergency procedures

- ▶ Remove all ignition sources
- Clean up all spills immediately
- Minor Spills
- Avoid breathing vapours and contact with skin and eyes.
- Control personal contact with the substance, by using protective equipment.
- Contain and absorb small quantities with vermiculite or other absorbent material.
- Wipe up.
- ▶ Collect residues in a flammable waste container.

**Major Spills** 

Personal Protective Equipment advice is contained in Section 8 of the SDS.

# **SECTION 7 HANDLING AND STORAGE**

Safe handling

### Precautions for safe handling

- Containers, even those that have been emptied, may contain explosive vapours.
- Do NOT cut, drill, grind, weld or perform similar operations on or near containers.
- Avoid all personal contact, including inhalation
- ▶ Wear protective clothing when risk of exposure occurs.
- Use in a well-ventilated area.
  - Avoid smoking, naked lights, heat or ignition sources.
  - ► When handling, **DO NOT** eat, drink of
  - Earth and secure metal containers when dispensing or pouring product.
  - Use spark-free tools when handling.
  - Avoid contact with incompatible materials.
  - Keep containers securely sealed.
  - Avoid physical damage to containers.
  - ▶ Work clothes should be laundered separately
  - Use good occupational work practice
  - ▶ Observe manufacturer's storage and handling recommendations contained within this SDS.

# Other information

- Store in original containers in approved flame-proof area.
- No smoking, naked lights, heat or ignition sources.
- Keep containers securely sealed.
  - Store away from incompatible materials in a cool, dry well ventilated area.
  - Protect containers against physical damage and check regularly for leaks.
  - Observe manufacturer's storage and handling recommendations contained within this SDS

### Conditions for safe storage, including any incompatibilities

- ▶ Packing as supplied by manufacturer (HDPE).
- Plastic containers may only be used if approved for flammable liquid
- Check that containers are clearly labelled and free from leaks

### Suitable container

- Drums and jerry cans must be of the non-removable head type.
- ▶ Where combination packages are used, and the inner packages are of glass, there must be sufficient inert cushioning material in contact with inner and outer packages
- In addition, where inner packagings are glass and contain liquids of packing group I there must be sufficient inert absorbent to absorb any spillage, unless the outer packaging is a close fitting moulded plastic box and the substances are not incompatible with the plastic.

### Storage incompatibility

- Avoid oxidising agents, acids, acid chlorides, acid anhydrides, chloroformates
- Avoid strong bases.

### **SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

Version No: **1.3** Page **4** of **9** Issue Date: **01/06/2016** 

# **Alcohol Hand Sanitiser Spray**

Print Date: 01/06/2016

### **Control parameters**

### OCCUPATIONAL EXPOSURE LIMITS (OEL)

### INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australia Exposure Standards	ethanol	Ethyl alcohol	1880 mg/m3 / 1000 ppm	Not Available	Not Available	Not Available
Australia Exposure Standards	methyl isobutyl ketone	Methyl isobutyl ketone	205 mg/m3 / 50 ppm	307 mg/m3 / 75 ppm	Not Available	Not Available

### **EMERGENCY LIMITS**

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
ethanol	Ethyl alcohol; (Ethanol)	Not Available	Not Available	Not Available
methyl isobutyl ketone	Methyl isobutyl ketone; (Hexone)	75 ppm	75 ppm	3000 ppm

Ingredient	Original IDLH	Revised IDLH
ethanol	15,000 ppm	3,300 [LEL] ppm
methyl isobutyl ketone	3,000 ppm	500 ppm

### MATERIAL DATA

For ethanol

Odour Threshold Value: 49-716 ppm (detection), 101 ppm (recognition)

Eye and respiratory tract irritation do not appear to occur at exposure levels of less than 5000 ppm and the TLV-TWA is thought to provide an adequate margin of safety against such effects. Experiments in man show that inhalation of 1000 ppm caused slight symptoms of poisoning and 5000 ppm caused strong stupor and morbid sleepiness. Subjects exposed to 5000 ppm to 10000 ppm experienced smarting of the eyes and nose and coughing. Symptoms disappeared within minutes. Inhalation also causes local irritating effects to the eyes and upper respiratory tract, headaches, sensation of heat intraocular tension, stupor, fatigue and a need to sleep. At 15000 ppm there was continuous lachrymation and coughing.

for methyl isobutyl ketone (MIBK):

Unfatigued, odour recognition threshold (100% test panel) is 0.3 - 0.5 ppm.

Distinct odour at 15 ppm.

Odour is objectionable and vapours are irritating to eyes at 200 ppm.

NOTE: Detector tubes for methyl isobutyl ketone, measuring in excess of 50 ppm, are commercially available.

Exposure at or below the recommended TLV-TWA should provide sufficient protection against the potential irritant effects, headache and nausea, neurasthemic symptoms and other systemic toxicities (including liver and kidney damage) produced by MIBK.

The low odour threshold (1.64 mg/m3) and the irritant effects can provide warning of high concentrations. Exposure to levels of 10-410 mg/m3 (2.4-100 ppm) produced perceptible irritation of the eyes, nose, or throat, and 820 mg/m3 (200 ppm) produced discomfort. Symptoms, such as headache, nausea, or vertigo, also occurred at 10-410 mg/m3 (2.4-100 ppm). A 2-h exposure of up to 200 mg/m3 (50 ppm) did not produce any significant effects on a simple reaction-time task or a test of mental arithmetic.

Odour Safety Factor(OSF)

OSF=29 (METHYL ISOBUTYL KETONE)

### **Exposure controls**

Appropriate engineering controls	Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.  The basic types of engineering controls are:  Process controls which involve changing the way a job activity or process is done to reduce the risk.  Enclosure and/or isolation of emission source which keeps a selected hazard 'physically' away from the worker and ventilation that strategically 'adds' and 'removes' air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use.  Employers may need to use multiple types of controls to prevent employee overexposure.  For flammable liquids and flammable gases, local exhaust ventilation or a process enclosure ventilation system may be required. Ventilation equipment should be explosion-resistant.
Personal protection	
Eye and face protection	▶ Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent]
Skin protection	See Hand protection below
Hands/feet protection	Generally not required.
Body protection	See Other protection below
Other protection	► Barriercream.  ► Skin cleansing cream.  ► Eye wash unit.
Thermal hazards	Not Available

# **SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

### Information on basic physical and chemical properties

Appearance	Clear Colourless Liquid		
Physical state	Liquid	Relative density (Water = 1)	0.88 - 0.90

Version No: **1.3** Page **5** of **9** Issue Date: **01/06/2016** 

# **Alcohol Hand Sanitiser Spray**

issue Da	le. 01/00/2010
Print Dat	te: <b>01/06/2016</b>

Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Available	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Available
Flash point (°C)	Not Available	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	HIGHLY FLAMMABLE	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water (g/L)	Miscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

# **SECTION 10 STABILITY AND REACTIVITY**

Reactivity	See section 7
Chemical stability	<ul> <li>Unstable in the presence of incompatible materials.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul>
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

# SECTION 11 TOXICOLOGICAL INFORMATION

## Information on toxicological effects

Inhaled	The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models).  Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.		
Ingestion	The material hasNOT been classified by EC Directives or other classification systems as 'harmful by ingestion'. This is because of the lack of corroborating animal or human evidence. The material may still be damaging to the health of the individual, following ingestion, especially where pre-existing organ (e.g liver, kidney) damage is evident. Present definitions of harmful or toxic substances are generally based on doses producing mortality rather than those producing morbidity (disease, ill-health). Gastrointestinal tract discomfort may produce nausea and vomiting. In an occupational setting however, ingestion of insignificant quantities is not thought to be cause for concern.		
Skin Contact	Skin contact is not thought to have harmful health effects (as classified under EC Directives); the material may still produce health damage following entry through wounds, lesions or abrasions.  Limited evidence exists, or practical experience predicts, that the material either produces inflammation of the skin in a substantial number of individuals following direct contact, and/or produces significant inflammation when applied to the healthy intact skin of animals, for up to four hours, such inflammation being present twenty-four hours or more after the end of the exposure period. Skin irritation may also be present after prolonged or repeated exposure; this may result in a form of contact dermatitis (nonallergic). The dermatitis is often characterised by skin redness (erythema) and swelling (oedema) which may progress to blistering (vesiculation), scaling and thickening of the epidermis. At the microscopic level there may be intercellular oedema of the spongy layer of the skin (spongiosis) and intracellular oedema of the epidermis.		
Еуе	Although the liquid is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may produce transient discomfort characterised by tearing or conjunctival redness (as with windburn).		
Chronic	Long-term exposure to the product is not thought to produce chronic effects adverse to health (as classified by EC Directives using animal models); nevertheless exposure by all routes should be minimised as a matter of course.  Long-term exposure to ethanol may result in progressive liver damage with fibrosis or may exacerbate liver injury caused by other agents.  Repeated ingestion of ethanol by pregnant women may adversely affect the central nervous system of the developing foetus, producing effects collectively described as foetal alcohol syndrome. These include mental and physical retardation, learning disturbances, motor and language deficiency, behavioural disorders and reduced head size.		
		155/5/5/201	
Alcohol Hand Sanitiser Spray	TOXICITY IRRITATION  Not Available Not Available		
ethanol	TOXICITY  Dermal (rabbit) LD50: 17100 mg/kg <sup>[1]</sup>	IRRITATION  Eye (rabbit): 500 mg SEVERE	
	Inhalation (rat) LC50: 64000 ppm/4h <sup>[2]</sup>	Eye (rabbit):100mg/24hr-moderate	

Version No: **1.3** Page **6** of **9** Issue Date: **01/06/2016**Print Date: **01/06/2016** 

### **Alcohol Hand Sanitiser Spray**

	Oral (rat) LD50: >1187-2769 mg/kg <sup>[1]</sup>	Skin (rabbit):20 mg/24hr-moderate	
		Skin (rabbit):400 mg (open)-mild	
	TOXICITY	IRRITATION	
	Dermal (rabbit) LD50: >16000 mg/kg <sup>[1]</sup>	Eye (human): 200 ppm/15m	
methyl isobutyl ketone	Oral (rat) LD50: 2984 mg/kg <sup>[1]</sup>	Eye (rabbit): 40 mg - SEVERE	
		Eye (rabbit): 500 mg/24h - mild	
		Skin (rabbit): 500 mg/24h - mild	
Legend:	Nalue obtained from Europe ECHA Registered Substances - Acute toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances		
	<u> </u>		

Acute Toxicity	0	Carcinogenicity	0
Skin Irritation/Corrosion	0	Reproductivity	0
Serious Eye Damage/Irritation	0	STOT - Single Exposure	0
Respiratory or Skin sensitisation	0	STOT - Repeated Exposure	0
Mutagenicity	0	Aspiration Hazard	0
			Date and the last term of fill the control for the control fill the control for the control fill the control

Legend:

X – Data available but does not fill the criteria for classification

✓ – Data required to make classification available

Not Available to make classification

### **SECTION 12 ECOLOGICAL INFORMATION**

### Toxicity

Ingredient	Endpoint	Test Duration (hr)	Species	Value	Source
ethanol	EC50	24	Algae or other aquatic plants	0.0129024mg/L	4
ethanol	EC50	48	Crustacea	2mg/L	4
ethanol	LC50	96	Fish	42mg/L	4
ethanol	NOEC	2016	Fish	0.000375mg/L	4
ethanol	EC50	72	Algae or other aquatic plants	275mg/L	2
methyl isobutyl ketone	EC50	48	Crustacea	=170mg/L	1
methyl isobutyl ketone	EC50	384	Crustacea	16.425mg/L	3
methyl isobutyl ketone	EC50	96	Algae or other aquatic plants	275.488mg/L	3
methyl isobutyl ketone	LC50	96	Fish	69.808mg/L	3
methyl isobutyl ketone	NOEC	504	Crustacea	30mg/L	2
Legend:	Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data				

When ethanol is released into the soil it readily and quickly biodegrades but may leach into ground water; most is lost by evaporation. When released into water the material readily evaporates and is biodegradable.

Ethanol does not bioaccumulate to an appreciable extent.

The material is readily degraded by reaction with photochemically produced hydroxy radicals; release into air will result in photodegradation and wet deposition.

### **Environmental Fate:**

TERRESTRIAL FATE: An estimated Koc value of 1 indicates that ethanol is expected to have very high mobility in soil. Volatilisation of ethanol from moist soil surfaces is expected to be an important fate process given a Henry's Law constant of 5X10-6 atm-m3/mole. The potential for volatilisation of ethanol from dry soil surfaces may exist based upon an extrapolated vapor pressure of 59.3 mmHg. Biodegradation is expected to be an important fate process for ethanol based on half-lives on the order of a few days for ethanol in sandy soil/groundwater microcosms. AQUATIC FATE: An estimated Koc value of 1 indicates that ethanol is not expected to adsorb to suspended solids and sediment. Volatilisation from water surfaces is expected based upon a Henry's Law constant of 5X10-6 atm-m3/mole. Using this Henry's Law constant and an estimation method, volatilisation half-lives for a model river and model lake are 3 and 39 days, respectively. An estimated BCF= 3, from a log Kow of -0.31 suggests bioconcentration in aquatic organisms is low. Hydrolysis and photolysis in sunlit surface waters is not expected to be an important environmental fate process for ethanol since this compound lacks functional groups that hydrolyse or absorb light under environmentally relevant conditions. Ethanol was degraded with half-lives on the order of a few days in aquatic studies conducted using microcosms constructed with a low organic sandy soil and groundwater, indicating it is unlikely to be persistent in aquatic environments(8).

ATMOSPHERIC FATE: Ethanol, which has an extrapolated vapor pressure of 59.3 mm Hg at 25 deg C, is expected to exist solely as a vapor in the ambient atmosphere. Vapour-phase ethanol is degraded in the atmosphere by reaction with photochemically-produced hydroxyl radicals; the half-life for this reaction in air is estimated to be 5 days, calculated from its rate constant of 3.3X10-12 m3/molecule-sec at 25 deg C.

### **Ecotoxicity:**

log Kow: -0.31- -0.32 Half-life (hr) air: 144 Half-life (hr) H2O surface water: 144 Henry's atm m3/mol: 6.29E-06 BOD 5 if unstated: 0.93-1.67,63% COD: 1.99-2.11,97% ThOD: 2.1

# Persistence and degradability

Ingredient Persistence: Water/Soil Persistence: Air

Version No: 1.3 Page 7 of 9 Issue Date: 01/06/2016 Print Date: 01/06/2016

### **Alcohol Hand Sanitiser Spray**

ethanol	LOW (Half-life = 2.17 days)	LOW (Half-life = 5.08 days)
methyl isobutyl ketone	HIGH (Half-life = 7001 days)	LOW (Half-life = 1.9 days)

### **Bioaccumulative potential**

Ingredient	Bioaccumulation
ethanol	LOW (LogKOW = -0.31)
methyl isobutyl ketone	LOW (LogKOW = 1.31)

### Mobility in soil

Ingredient	Mobility
ethanol	HIGH (KOC = 1)
methyl isobutyl ketone	LOW (KOC = 10.91)

## **SECTION 13 DISPOSAL CONSIDERATIONS**

### Waste treatment methods

- ▶ DO NOT allow wash water from cleaning or process equipment to enter drains.
- ▶ It may be necessary to collect all wash water for treatment before disposal.
- ▶ In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
- Product / Packaging disposal
- ▶ Where in doubt contact the responsible authority. Recycle wherever possible.
- ► Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified.
- Dispose of by: burial in a land-fill specifically licenced to accept chemical and / or pharmaceutical wastes or Incineration in a licenced apparatus (after admixture with suitable combustible material).
- ▶ Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.

### **SECTION 14 TRANSPORT INFORMATION**

### **Labels Required**



Marine Pollutant	NO
HAZCHEM	•3Y

## Land transport (ADG)

UN number	1993
Packing group	III
UN proper shipping name	FLAMMABLE LIQUID, N.O.S.
Environmental hazard	Not Applicable
Transport hazard class(es)	Class 3 Subrisk Not Applicable
Special precautions for user	Special provisions 223 274 Limited quantity 5 L

### Air transport (ICAO-IATA / DGR)

UN number	1993	
Packing group	Ш	
UN proper shipping name	Flammable liquid, n.o.s. *	
Environmental hazard	Not Applicable	
Transport hazard class(es)	ICAO/IATA Class 3 ICAO / IATA Subrisk Not Applicable ERG Code 3L	
Special precautions for user	Special provisions  Cargo Only Packing Instructions	A3 366

Version No: **1.3** Page **8** of **9** Issue Date: **01/06/2016** 

### **Alcohol Hand Sanitiser Spray**

Print Date: **01/06/2016** 

Cargo Only Maximum Qty / Pack	220 L
Passenger and Cargo Packing Instructions	355
Passenger and Cargo Maximum Qty / Pack	60 L
Passenger and Cargo Limited Quantity Packing Instructions	Y344
Passenger and Cargo Limited Maximum Qty / Pack	10 L

## Sea transport (IMDG-Code / GGVSee)

UN number	1993
Packing group	III
UN proper shipping name	FLAMMABLE LIQUID, N.O.S.
Environmental hazard	Not Applicable
Transport hazard class(es)	IMDG Class     3       IMDG Subrisk     Not Applicable
Special precautions for user	EMS NumberF-E, S-ESpecial provisions223 274 955Limited Quantities5 L

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

Not Applicable

### **SECTION 15 REGULATORY INFORMATION**

## Safety, health and environmental regulations / legislation specific for the substance or mixture

### ETHANOL(64-17-5) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Exposure Standards

Australia Hazardous Substances Information System - Consolidated Lists

Australia Inventory of Chemical Substances (AICS)

## METHYL ISOBUTYL KETONE(108-10-1) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Exposure Standards	Australia Inventory of Chemical Substances (AICS)
Australia Hazardous Substances Information System - Consolidated Lists	International Agency for Research on Cancer (IARC) - Agents Classified by the IARC
	Monographs

National Inventory	Status
Australia - AICS	Y
Canada - DSL	Υ
Canada - NDSL	N (ethanol; methyl isobutyl ketone)
China - IECSC	Υ
Europe - EINEC / ELINCS / NLP	Y
Japan - ENCS	N (methyl isobutyl ketone)
Korea - KECI	Y
New Zealand - NZIoC	Υ
Philippines - PICCS	Y
USA - TSCA	Υ
Legend:	Y = All ingredients are on the inventory N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

### **SECTION 16 OTHER INFORMATION**

### Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

A list of reference resources used to assist the committee may be found at:

www.chemwatch.net

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

# **Definitions and abbreviations**

PC-TWA: Permissible Concentration-Time Weighted Average

PC-STEL: Permissible Concentration-Short Term Exposure Limit

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

Version No: 1.3 Page 9 of 9 Issue Date: 01/06/2016 Print Date: 01/06/2016

# **Alcohol Hand Sanitiser Spray**

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit。
IDLH: Immediately Dangerous to Life or Health Concentrations

OSF: Odour Safety Factor NOAEL: No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level

TLV: Threshold Limit Value LOD: Limit Of Detection OTV: Odour Threshold Value BCF: BioConcentration Factors BEI: Biological Exposure Index

This document is copyright.

Apart from any fair dealing for the purposes of privatestudy, research, review or criticism, as permitted under the Copyright Act, nopart may be reproduced by any process without written permission from CHEMWATCH.

TEL (+61 3) 9572 4700.