

## MICROSHIELD ANGEL CLEAR ANTIMICROBIAL HAND RUB

## **Schulke New Zealand Ltd**

Chemwatch: 62-4117 Version No: 3.1.1.1 Safety Data Sheet according to HSNO Regulations Chemwatch Hazard Alert Code: 2

Issue Date: 01/11/2019 Print Date: 07/09/2020 L.GHS.NZL.EN

#### SECTION 1 Identification of the substance / mixture and of the company / undertaking

Product Identifier	
Product name	MICROSHIELD ANGEL CLEAR ANTIMICROBIAL HAND GEL
Synonyms	Schulke Code: 70001142, 70000723, 70001757
Proper shipping name	ETHANOL (ETHYL ALCOHOL) or ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)
Other means of identification	Not Available
Relevant identified uses of the	substance or mixture and uses advised against
Relevant identified uses	SDS are intended for use in the workplace. For domestic-use products, refer to consumer labels.
Details of the supplier of the sa	
Registered company name	Schulke New Zealand Ltd
Address	14/188 Quay St Auckland 1010 New Zealand
Telephone	0800 724 855
Fax	Not Available
Website	www.schuelke.co.nz
Email	info.nz@schuelke.com
Emergency telephone number	
Association / Organisation	NZ Poisons Centre
Emergency telephone numbers	0800 764 766
Other emergency telephone	Not Available

## **SECTION 2 Hazards identification**

## Classification of the substance or mixture

numbers

Considered a Hazardous Substance according to the criteria of the New Zealand Hazardous Substances New Organisms legislation. Classified as Dangerous Goods for transport purposes.

## ChemWatch Hazard Ratings

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

Classification <sup>[1]</sup>	Flammable Liquid Category 3
Legend:	1. Classified by Chemwatch; 2. Classification drawn from CCID EPA NZ; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI
Gazetted by EPA New Zealand	3.1C

## Label elements

Hazard pictogram(s)



Signal word	Warnin
Signal Word	vvai i i i i i

## Hazard statement(s)

H226

Flammable liquid and vapour.

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#### Supplementary statement(s)

Not Applicable

#### Precautionary statement(s) Prevention

r reductionary statement(s) r re	
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting/intrinsically safe equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharges.
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 to extinguish.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

#### Precautionary statement(s) Storage

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

#### Precautionary statement(s) Disposal

Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

#### **SECTION 3 Composition / information on ingredients**

P501

#### Substances

See section below for composition of Mixtures

#### **Mixtures**

CAS No	%[weight]	Name
64-17-5	>60	ethanol
Not Available	30-60	Ingredients determined not to be hazardous

## **SECTION 4 First aid measures**

#### Description of first aid measures

Eye Contact	<ul> <li>If this product comes in contact with the eyes:</li> <li>Wash out immediately with fresh running water.</li> <li>Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.</li> <li>Seek medical attention without delay; if pain persists or recurs seek medical attention.</li> <li>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>
Skin Contact	No adverse effects anticipated from normal use. Wipe off excess with absorbent tissue or towel.
Inhalation	<ul> <li>If fumes or combustion products are inhaled remove from contaminated area.</li> <li>Lay patient down. Keep warm and rested.</li> <li>Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.</li> <li>Transport to hospital, or doctor.</li> </ul>
Ingestion	<ul> <li>If swallowed do NOT induce vomiting.</li> <li>If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.</li> <li>Observe the patient carefully.</li> <li>Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.</li> <li>Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.</li> <li>Seek medical advice.</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.

## **SECTION 5 Firefighting measures**

#### **Extinguishing media**

Alcohol stable foam.

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- Dry chemical powder
- Carbon dioxide
- ▶ Water spray or fog Large fires only.

#### Special hazards arising from the substrate or mixture

Fire Incompatibility

Fire Fighting

Avoid contamination with strong oxidising agents as ignition may result

#### Advice for firefighters

- Alert Fire Brigade and tell them location and nature of hazard. May be violently or explosively reactive
  - Wear breathing apparatus plus protective gloves.
  - Prevent, by any means available, spillage from entering drains or water course. If safe, switch off electrical equipment until vapour fire hazard removed.
    - Use water delivered as a fine spray to control fire and cool adjacent area.
    - Avoid spraying water onto liquid pools
  - ▶ DO NOT approach containers suspected to be hot.
  - Cool fire exposed containers with water spray from a protected location.
  - If safe to do so, remove containers from path of fire.
  - Liquid and vapour are flammable.
    - Moderate fire hazard when exposed to heat or flame.
  - Vapour forms an explosive mixture with air.
  - Moderate explosion hazard when exposed to heat or flame
  - 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)

nitrogen oxides (NOx)

other pyrolysis products typical of burning organic material

## **SECTION 6 Accidental release measures**

Fire/Explosion Hazard

#### Personal precautions, protective equipment and emergency procedures

See section 8

#### **Environmental precautions**

See section 12

## Methods and material for containment and cleaning up

- Minor Spills
- Remove all ignition sources.
- Clean up all spills immediately. 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.

## Slippery when spilt.

Slipperv when spilt

- Clear area of personnel and move upwind.
- Alert Fire Brigade and tell them location and nature of hazard.
- May be violently or explosively reactive.
- Wear breathing apparatus plus protective gloves.
- Prevent, by any means available, spillage from entering drains or water course.
- No smoking, naked lights or ignition sources.

#### **Major Spills**

- Increase ventilation. Stop leak if safe to do so.
- ▶ Water spray or fog may be used to disperse / absorb vapour.
- Contain spill with sand, earth or vermiculite.
- Use only spark-free shovels and explosion proof equipment.
- Collect recoverable product into labelled containers for recycling.
- Absorb remaining product with sand, earth or vermiculite. Collect solid residues and seal in labelled drums for disposal
- Wash area and prevent runoff into drains.
- ▶ If contamination of drains or waterways occurs, advise emergency services

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

### **SECTION 7 Handling and storage**

#### Precautions for safe handling

Remove all ignition sources.

- Limit all unnecessary personal contact.
- Wear protective clothing when risk of exposure occurs.
- Use in a well-ventilated area.

#### Safe handling

- When handling DO NOT eat, drink or smoke.
- Always wash hands with soap and water after handling.
- Avoid physical damage to containers. Use good occupational work practice.
- Observe manufacturer's storage and handling recommendations contained within this SDS.

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Other information

Shelf life:2 years from date of manufacture.

- ▶ Store in original containers in approved flame-proof area.
- No smoking, naked lights, heat or ignition sources.
- DO NOT store in pits, depressions, basements or areas where vapours may be trapped.
   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.

Store below 30 deg. C.

#### Conditions for safe storage, including any incompatibilities

Suitable container

125mL bottle, 500mL pump bottle

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

Storage incompatibility

Avoid storage with oxidisers

#### SECTION 8 Exposure controls / personal protection

#### Control parameters

#### Occupational Exposure Limits (OEL)

#### **INGREDIENT DATA**

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
New Zealand Workplace Exposure Standards (WES)	ethanol	Ethyl alcohol (Ethanol)	1000 ppm / 1880 mg/m3	Not Available	Not Available	Not Available

#### **Emergency Limits**

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
ethanol	Ethanol: (Ethyl alcohol)	Not Available	Not Available	15000* ppm

Ingredient	Original IDLH	Revised IDLH
ethanol	3,300 ppm	Not Available

#### MATERIAL DATA

## Exposure 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.

Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to effectively remove the contaminant.

# Appropriate engineering controls

solvent, vapours, degreasing etc., evaporating from tank (in still air).	0.25-0.5 m/s (50-100 f/min.)
aerosols, fumes from pouring operations, intermittent container filling, low speed conveyer transfers, welding, spray drift, plating acid fumes, pickling (released at low velocity into zone of active generation)	0.5-1 m/s (100-200 f/min.)
direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generation into zone of rapid air motion)	1-2.5 m/s (200-500 f/min.)

Within each range the appropriate value depends on:

Type of Contaminant

Lower end of the range	Upper end of the range
1: Room air currents minimal or favourable to capture	1: Disturbing room air currents
2: Contaminants of low toxicity or of nuisance value only.	2: Contaminants of high toxicity
3: Intermittent, low production.	3: High production, heavy use
4: Large hood or large air mass in motion	4: Small bood-local control only

Simple theory shows that air velocity falls rapidly with distance away from the opening of a simple extraction pipe. Velocity generally decreases with the square of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point should be adjusted, accordingly, after reference to distance from the contaminating source. The air velocity at the extraction fan, for example, should be a minimum of 1-2 m/s (200-400 f/min.) for extraction of solvents generated in a tank 2 meters distant from the extraction point. Other mechanical considerations, producing performance deficits within the extraction apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed or used.

Air Speed:

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#### Personal protection











No special equipment for minor exposure i.e. when handling small quantities. OTHERWISE:

- Safety glasses with side shields
- 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

Skin protection See Hand protection below

Hands/feet protection No special equipment needed when handling small quantities.
OTHERWISE: Wear chemical protective gloves, e.g. PVC.

Body protection See Other protection below

national equivalent]

Body protection

Overalls.

Other protection

► Eyewash unit.

#### Recommended material(s)

#### GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:

"Forsberg Clothing Performance Index".

The effect(s) of the following substance(s) are taken into account in the *computer-generated* selection:

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Material	СРІ
BUTYL	A
NEOPRENE	A
NATURAL RUBBER	С
NATURAL+NEOPRENE	С
NITRILE	С
NITRILE+PVC	С
PE/EVAL/PE	С
PVA	С
PVC	С
VITON	С

- \* CPI Chemwatch Performance Index
- A: Best Selection
- B: Satisfactory; may degrade after 4 hours continuous immersion
- C: Poor to Dangerous Choice for other than short term immersion

**NOTE**: As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. -

\* Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

## Respiratory protection

Type A Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required. Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 5 x ES	Air-line*	A-2	A-PAPR-2 ^
up to 10 x ES	-	A-3	-
10+ x ES	-	Air-line**	-

\* - Continuous Flow; \*\* - Continuous-flow or positive pressure demand ^ - Full-face

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

## **SECTION 9 Physical and chemical properties**

#### Information on basic physical and chemical properties

Appearance A clear alcoholic flammable gel with a faint alcoholic fragrance; miscible with water.			
Physical state	Gel	Relative density (Water = 1)	0.84-0.88 @ 25C
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	6.3-6.7	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Applicable	Viscosity (cSt)	1400
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	25 (ethanol)	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Flammable.	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available

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Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	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	Acute effects from inhalation of high concentrations of vapour are pulmonary irritation, including coughing, with nausea; central nervous system depression - characterised by headache and dizziness, increased reaction time, fatigue and loss of co-ordination Inhalation hazard is increased at higher temperatures.		
Ingestion	ŭ	of the material may be damaging to the health of the individual.  may produce nausea, vomiting, gastrointestinal bleeding, abdominal pain and diarrhoea. Systemic effects:  Effects:  Mild: Impaired visual acuity, coordination and reaction time, emotional lability  Moderate: Slurred speech, confusion, ataxia, emotional lability, perceptual and sensation disturbances possible blackout spells, and incoordination with impaired objective performance in standardised tests.  Possible diplopia, flushing, tachycardia, sweating and incontinence.  Bradypnoea may occur early and tachypnoea may develop in cases of metabollic acidosis, hypoglycaemia and hypokalaemia.  CNS depression may progress to coma.  Severe: Cold clammy skin, hypothermia and hypotension.  Atrial fibrillation and atrioventricular block have been reported.  Respiratory depression may occur, respiratory failure may follow serious intoxication, aspiration of vomitus may result in pneumonitis and pulmonary oedema.  Convulsions due to severe hypoglycaemia may also occur  Acute hepatitis may develop.	
Skin Contact	The material may ca dermatitis is often ch spongy layer (spong Discontinue use if irr Entry into the blood-	use discomfort through normal use.  use skin irritation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic). This form of aracterised by skin redness (erythema) and swelling epidermis. Histologically there may be intercellular oedema of the iosis) and intracellular oedema of the epidermis. itation occurs itation occurs stream through, for example, cuts, abrasions, puncture wounds or lesions, may produce systemic injury with harmful effects or to the use of the material and ensure that any external damage is suitably protected.	
Еуе	The material may pro	oduce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may s.	
Chronic	Repeated ingestion collectively described deficiency, behaviou Consumption of ethic Symptoms, which magent may be acetic	to ethanol may result in progressive liver damage with fibrosis or may exacerbate liver injury caused by other agents. of ethanol by pregnant women may adversely affect the central nervous system of the developing foetus, producing effects d as foetal alcohol syndrome. These include mental and physical retardation, learning disturbances, motor and language ral disorders and reduced head size.  anol (in alcoholic beverages) may be linked to the development of Type I hypersensitivities in a small number of individuals. ay appear immediately after consumption, include conjunctivitis, angioedema, dyspnoea, and urticarial rashes. The causativ acid, a metabolite (1).  & H.Gall, Clinical & Experimental Allergy, 26, 1089-1091, 1996	
MICROSHIELD ANGEL CLEAR	TOXICITY	IRRITATION	

MICROSHIELD ANGEL CLEAR ANTIMICROBIAL HAND RUB	TOXICITY  Not Available	IRRITATION  Not Available
	TOXICITY	IRRITATION
	1.40 mg/kg <sup>[2]</sup> 1400 mg/kg <sup>[2]</sup>	Eye (rabbit): 500 mg SEVERE  Eye (rabbit):100mg/24hr-moderate
ethanol	4070 mg/kg <sup>[2]</sup>	Eye: adverse effect observed (irritating) <sup>[1]</sup>
	4070 mg/kg <sup>[2]</sup>	Skin (rabbit):20 mg/24hr-moderate
	5100 mg/kg <sup>[2]</sup>	Skin (rabbit):400 mg (open)-mild

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	6030 mg/kg <sup>[2]</sup>	Skin: no advers	e effect observed (not irritating) <sup>[1]</sup>
	6030 mg/kg <sup>[2]</sup>		
	6080 mg/kg <sup>[2]</sup>		
	6080 mg/kg <sup>[2]</sup>		
	9200 mg/kg <sup>[2]</sup>		
	9710 mg/kg <sup>[2]</sup>		
	Inhalation (rat) LC50: 0 mg/l/10h <sup>[2]</sup>		
	Inhalation (rat) LC50: 124.7 mg/l/4H <sup>[2]</sup>		
	Inhalation (rat) LC50: 63926.976 mg/l/4h <sup>[2]</sup>		
	mg/kg <sup>[2]</sup>		
	Oral (rat) LD50: =1501 mg/kg <sup>[2]</sup>		
	Oral (rat) LD50: 7060 mg/kg <sup>[2]</sup>		
Legend:	Value obtained from Europe ECHA Registered Subspecified data extracted from RTECS - Register of To.	-	ained from manufacturer's SDS. Unless otherwise
ETHANOL	The material may cause skin irritation after prolonged dermatitis is often characterised by skin redness (eryt spongy layer (spongiosis) and intracellular oedema of	hema) and swelling the epidermis. Hi	
Acute Toxicity	×	Carcinogenicity	×
Skin Irritation/Corrosion	×	Reproductivity	×

Legend:

STOT - Single Exposure

**Aspiration Hazard** 

STOT - Repeated Exposure

💢 – Data either not available or does not fill the criteria for classification 📝 – Data available to make classification

## **SECTION 12 Ecological information**

Respiratory or Skin

sensitisation Mutagenicity

×

Serious Eye Damage/Irritation

### Toxicity

MICROSHIELD ANGEL CLEAR ANTIMICROBIAL HAND RUB	Endpoint	Test Duration (hr)	Species	Value	Source
	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
ethanol	LC50	96	Fish	11-mg/L	2
	EC50	48	Crustacea	>10-mg/L	2
	EC50	96	Algae or other aquatic plants	ca.22-mg/L	2
	NOEC	168	Algae or other aquatic plants	1-296mg/L	2
Legend:	V3.12 (QSAR)	n 1. IUCLID Toxicity Data 2. Europe ECHA Register ) - Aquatic Toxicity Data (Estimated) 4. US EPA, Ec (Japan) - Bioconcentration Data 7. METI (Japan) - I	otox database - Aquatic Toxicity Data 5. EC		

### DO NOT discharge into sewer or waterways.

## Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
ethanol	LOW (Half-life = 2.17 days)	LOW (Half-life = 5.08 days)

#### **Bioaccumulative potential**

Ingredient	Bioaccumulation
ethanol	LOW (LogKOW = -0.31)

#### Mobility in soil

Ingredient	Mobility
ethanol	HIGH (KOC = 1)

## **SECTION 13 Disposal considerations**

## Waste treatment methods

Product / Packaging disposal

<sup>▶</sup> Recycle wherever possible or consult manufacturer for recycling options.

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- ▶ Consult State Land Waste Authority for disposal.
- Bury or incinerate residue at an approved site.
- Recycle containers if possible, or dispose of in an authorised landfill.

Ensure that the hazardous substance is disposed in accordance with the Hazardous Substances (Disposal) Notice 2017

#### **Disposal Requirements**

Packages that have been in direct contact with the hazardous substance must be only disposed if the hazardous substance was appropriately removed and cleaned out from the package. The package must be disposed according to the manufacturer's directions taking into account the material it is made of. Packages which hazardous content have been appropriately treated and removed may be recycled.

The hazardous substance must only be disposed if it has been treated by a method that changed the characteristics or composition of the substance and it is no longer hazardous. DO NOT deposit the hazardous substance into or onto a landfill or a sewage facility.

Burning the hazardous substance must happen under controlled conditions with no person or place exposed to

- (1) a blast overpressure of more than 9 kPa; or
- (2) an unsafe level of heat radiation.

The disposed hazardous substance must not come into contact with class 1 or 5 substances.

#### **SECTION 14 Transport information**

#### Labels Required



Marine Pollutant	NO
HAZCHEM	•2Y

#### Land transport (UN)

. , ,			
UN number	1170		
UN proper shipping name	ETHANOL (ETHYL ALCOHOL) or ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)		
Transport hazard class(es)	Class 3 Subrisk Not Applicable		
Packing group			
Environmental hazard	Not Applicable		
Special precautions for user	Special provisions 144; 223 Limited quantity 5 L		

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

UN number	1170			
UN proper shipping name	Ethanol or Ethanol. solution			
Transport hazard class(es)	ICAO/IATA Class ICAO / IATA Subrisk ERG Code	3 Not Applicable 3L		
Packing group	III			
Environmental hazard	Not Applicable			
Special precautions for user	Special provisions Cargo Only Packing Instructions Cargo Only Maximum Qty / Pack Passenger and Cargo Packing Instructions Passenger and Cargo Maximum Qty / Pack Passenger and Cargo Limited Quantity Packing Instructions Passenger and Cargo Limited Maximum Qty / Pack		A3 A58 A180 366 220 L 355 60 L Y344 10 L	

## Sea transport (IMDG-Code / GGVSee)

UN number	1170		
UN proper shipping name	ETHANOL (ETHYL ALCOHOL) or ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)		
Transport hazard class(es)	IMDG Class 3 IMDG Subrisk Not Applicable		
Packing group	III		
Environmental hazard	Not Applicable		

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Special precautions for user

EMS Number	F-E, S-D
Special provisions	144 223
Limited Quantities	5 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

This substance can be managed under the controls specified in the Transfer Notice or alternatively it may be managed using the conditions specified in an applicable Group Standard.

HSR Number	Group Standard
HSR006424	Not Available

#### ethanol is found on the following regulatory lists

New Zealand Approved Hazardous Substances with controls

New Zealand Hazardous Substances and New Organisms (HSNO)  $\mathop{\rm Act}\nolimits$  - Classification of Chemicals

New Zealand Hazardous Substances and New Organisms (HSNO) Act - Classification of Chemicals - Classification Data

New Zealand Inventory of Chemicals (NZIoC)
New Zealand Workplace Exposure Standards (WES)

#### **Hazardous Substance Location**

Subject to the Health and Safety at Work (Hazardous Substances) Regulations 2017.

Hazard Class	Quantity (Closed Containers)	Quantity (Open Containers)
3.1C	500 L in containers greater than 5 L 1500 L in containers up to and including 5 L	250 L 250 L

#### **Certified Handler**

Subject to Part 4 of the Health and Safety at Work (Hazardous Substances) Regulations 2017.

Class of substance	Quantities
Not Applicable	Not Applicable

Refer Group Standards for further information

## Tracking Requirements

Not Applicable

## National Inventory Status

National Inventory	Status
Australia - AIIC	Yes
Australia Non-Industrial Use	No (ethanol)
Canada - DSL	Yes
Canada - NDSL	No (ethanol)
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	Yes
Japan - ENCS	Yes
Korea - KECI	Yes
New Zealand - NZIoC	Yes
Philippines - PICCS	Yes
USA - TSCA	Yes
Taiwan - TCSI	Yes
Mexico - INSQ	Yes
Vietnam - NCI	Yes
Russia - ARIPS	Yes
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

## **SECTION 16 Other information**

Revision Date	01/11/2019
Initial Date	22/03/2016

#### **SDS Version Summary**

Version	Issue Date	Sections Updated
2.1.1.1	22/03/2016	Classification

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Version No: 3.1.1.1

## MICROSHIELD ANGEL CLEAR ANTIMICROBIAL HAND RUB

Issue Date: **01/11/2019**Print Date: **07/09/2020** 

Version	Issue Date	Sections Updated
3.1.1.1	01/11/2019	One-off system update. NOTE: This may or may not change the GHS classification

#### 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.

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

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

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TEL (+61 3) 9572 4700.