# schülke -

# MICROSHIELD ANGEL BLUE ANTIMICROBIAL HAND GEL. Schulke Australia Pty Ltd

Chemwatch: 60-3462 Version No: 5.1.1.1

Safety Data Sheet according to WHS and ADG requirements

Chemwatch Hazard Alert Code: 2

Issue Date: **15/12/2020** Print Date: **24/02/2021** L.GHS.AUS.EN

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

Product Identifier	
MICROSHIELD ANGEL BLUE ANTIMICROBIAL HAND GEL.	
lot Applicable	
Schulke code: 70001141, 70000379	
ETHANOL (ETHYL ALCOHOL) or ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)	
Not Applicable	
MIRCOSHIELD ANGEL BLUE, ANGEL BLUE	

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

Relevant identified uses	Rapid hand antisepsis for infection control.
	SDS are intended for use in the workplace. For domestic-use products, refer to consumer labels.

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

Registered company name	ed company name Schulke Australia Pty Ltd	
Address	4 Lyonpark Road Macquarie Park NSW 2113 Australia	
Telephone	+61 2 8875 9300	
Fax	+61 2 8875 9301	
Website	www.schuelke.com.au	
Email customerservice.au@schuelke.com		

#### Emergency telephone number

• • •		
Association / Organisation	Poisons information Centre	
Emergency telephone numbers	13 11 26	
Other emergency telephone numbers	Not Available	

# **SECTION 2 Hazards identification**

#### Classification of the substance or mixture

Poisons Schedule	Poisons Schedule Not Applicable	
Classification <sup>[1]</sup>	Flammable Liquid Category 3, Eye Irritation Category 2A	
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI	

#### Label elements

Hazard pictogram(s)	
Signal word	Warning

#### Hazard statement(s)

H226	Flammable liquid and vapour.
H319	Causes serious eye irritation.

# Precautionary statement(s) Prevention

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/] equipment.

P242	Use non-sparking tools.	
P243	Take action to prevent static discharges.	
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/	

#### Precautionary statement(s) Response

P370+P378	P370+P378 In case of fire: Use alcohol resistant foam or normal protein foam to extinguish.	
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P337+P313	If eye irritation persists: Get medical advice/attention.	
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

P501 Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

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

#### Substances

See section below for composition of Mixtures

#### Mixtures

CAS No	%[weight]	Name
64-17-5	>60	ethanol
1934-21-0	<0.01	C.I. Acid Yellow 23
Not Available		Ingredients determined not to be hazardous
7732-18-5	10-30	water

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

Fire Incompatibility	Avoid contamination with strong oxidising agents as ignition may result
Advice for firefighters	
Fire Fighting	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>May be violently or explosively reactive.</li> <li>Wear breathing apparatus plus protective gloves.</li> <li>Prevent, by any means available, spillage from entering drains or water course.</li> <li>If safe, switch off electrical equipment until vapour fire hazard removed.</li> <li>Use water delivered as a fine spray to control fire and cool adjacent area.</li> <li>Avoid spraying water onto liquid pools.</li> <li>DO NOT approach containers suspected to be hot.</li> <li>Cool fire exposed containers with water spray from a protected location.</li> <li>If safe to do so, remove containers from path of fire.</li> </ul>
Fire/Explosion Hazard	<ul> <li>Liquid and vapour are flammable.</li> <li>Moderate fire hazard when exposed to heat or flame.</li> <li>Vapour forms an explosive mixture with air.</li> <li>Moderate explosion hazard when exposed to heat or flame.</li> <li>Vapour may travel a considerable distance to source of ignition.</li> <li>Heating may cause expansion or decomposition leading to violent rupture of containers.</li> <li>On combustion, may emit toxic fumes of carbon monoxide (CO).</li> <li>Combustion products include:</li> <li>carbon dioxide (CO2)</li> <li>nitrogen oxides (NOx)</li> <li>other pyrolysis products typical of burning organic material.</li> </ul>
HAZCHEM	•2Y

# **SECTION 6 Accidental release measures**

# Personal precautions, protective equipment and emergency procedures

See section 8

# **Environmental precautions**

See section 12

### Methods and material for containment and cleaning up

	¥ 1
Minor Spills	<ul> <li>Slippery when spilt.</li> <li>Remove all ignition sources.</li> <li>Clean up all spills immediately.</li> <li>Avoid breathing vapours and contact with skin and eyes.</li> <li>Control personal contact with the substance, by using protective equipment.</li> <li>Contain and absorb small quantities with vermiculite or other absorbent material.</li> <li>Wipe up.</li> <li>Collect residues in a flammable waste container.</li> </ul>
Major Spills	<ul> <li>Slippery when spilt.</li> <li>Clear area of personnel and move upwind.</li> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>May be violently or explosively reactive.</li> <li>Wear breathing apparatus plus protective gloves.</li> <li>Prevent, by any means available, spillage from entering drains or water course.</li> <li>No smoking, naked lights or ignition sources.</li> <li>Increase ventilation.</li> <li>Stop leak if safe to do so.</li> <li>Water spray or fog may be used to disperse / absorb vapour.</li> <li>Contain spill with sand, earth or vermiculite.</li> <li>Use only spark-free shovels and explosion proof equipment.</li> <li>Collect recoverable product into labelled containers for recycling.</li> <li>Absorb remaining product with sand, earth or vermiculite.</li> <li>Collect solid residues and seal in labelled drums for disposal.</li> <li>Wash area and prevent runoff into drains.</li> <li>If contamination of drains or waterways occurs, advise emergency services.</li> </ul>

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

## **SECTION 7 Handling and storage**

# Precautions for safe handling

recautions for sale nanuling	
Safe handling	<ul> <li>Remove all ignition sources.</li> <li>Limit all unnecessary personal contact.</li> <li>Wear protective clothing when risk of exposure occurs.</li> <li>Use in a well-ventilated area.</li> <li>When handling DO NOT eat, drink or smoke.</li> <li>Always wash hands with soap and water after handling.</li> <li>Avoid physical damage to containers.</li> <li>Use good occupational work practice.</li> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> </ul>
Other information	<ul> <li>Store in original containers in approved flame-proof area.</li> <li>No smoking, naked lights, heat or ignition sources.</li> <li>DO NOT store in pits, depressions, basements or areas where vapours may be trapped.</li> <li>Keep containers securely sealed.</li> <li>Store away from incompatible materials in a cool, dry well ventilated area.</li> </ul>
	Continued

 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 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. Suitable container Storage incompatibility Avoid storage with oxidisers **SECTION 8 Exposure controls / personal protection** 

#### **Control parameters**

#### **Occupational Exposure Limits (OEL)**

		INGREDIENT	DATA
--	--	------------	------

Source	Ingredient	Material name	name TWA			STEL	Peak		Notes
Australia Exposure Standards	ethanol	Ethyl alcohol	1000	) ppm / 1880 mg/m3		Not Available	Not Availabl	е	Not Available
Emergency Limits									
Ingredient	Material name	Material name TEEL-1			TEEL-2		TEEL	-3	
ethanol	Ethanol: (Ethyl al	Ethanol: (Ethyl alcohol) Not Available			Not Available		15000	)* ppm	
Ingredient	Original IDLH				Revis	ed IDLH			
ethanol	3,300 ppm	3,300 ppm		Not Av	Not Available				
C.I. Acid Yellow 23	Not Available	Not Available			Not Av	vailable			
water	Not Available	Not Available			Not Av	vailable			
Occupational Exposure Banding	g								
Ingredient	Occupational Ex	posure Band Rating			Осси	pational Exposure	Band Limit		
C.I. Acid Yellow 23	E	E			≤ 0.0	1 mg/m³			
Notes:		Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a							

range of exposure concentrations that are expected to protect worker health.

MATERIAL DATA

#### Exposure controls

Exposure controis				
	be highly effective in protecting workers and will typically be in The basic types of engineering controls are: Process controls which involve changing the way a job activit Enclosure and/or isolation of emission source which keeps a "adds" and "removes" air in the work environment. Ventilation ventilation system must match the particular process and che Employers may need to use multiple types of controls to prev For flammable liquids and flammable gases, local exhaust ve equipment should be explosion-resistant.	selected hazard "physically" away from the worker and ventilation can remove or dilute an air contaminant if designed properly. The mical or contaminant in use.	that strategically e design of a d. Ventilation	
	Type of Contaminant:		Air Speed:	
	solvent, vapours, degreasing etc., evaporating from tank (in still air).			
Appropriate engineering controls	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)			
	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:			
	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 hood-local control only		
	with the square of distance from the extraction point (in simple accordingly, after reference to distance from the contaminatin 1-2 m/s (200-400 f/min.) for extraction of solvents generated in	e away from the opening of a simple extraction pipe. Velocity gene e cases). Therefore the air speed at the extraction point should be g source. The air velocity at the extraction fan, for example, shoul n a tank 2 meters distant from the extraction point. Other mechan action apparatus, make it essential that theoretical air velocities a r used.	e adjusted, ld be a minimum of ical	

Page 5 of 10

Personal protection	
Eye and face protection	<ul> <li>No special equipment for minor exposure i.e. when handling small quantities.</li> <li>OTHERWISE:</li> <li>Safety glasses with side shields.</li> <li>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]</li> </ul>
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
Other protection	<ul> <li>Overalls.</li> <li>Eyewash unit.</li> </ul>

#### 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:

MICROSHIELD ANGEL BLUE ANTIMICROBIAL HAND GEL.

Material	CPI
BUTYL	А
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.

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

#### Information on basic physical and chemical properties

Appearance	White slightly viscous flammable liquid with a characteristic seafoam fragrance; miscible with water.				
Physical state	Gel	Relative density (Water = 1)	0.89-0.91 @ 25C		
Odour	Not Available	Partition coefficient n-octanol / water	Not Available		
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available		
pH (as supplied)	6.5-7.0	Decomposition temperature	Not Available		
Melting point / freezing point (°C)	Not Applicable	Viscosity (cSt)	Not Available		
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable		
Flash point (°C)	25	Taste	Not Available		
Evaporation rate	Not Available	Explosive properties	Not Available		
Flammability	Flammable.	Oxidising properties	Not Available		
Upper Explosive Limit (%)	19	Surface Tension (dyn/cm or mN/m)	Not Available		

#### **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)

Lower Explosive Limit (%)	3.3	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	depression - characte	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.		
	_	of the material may be damaging to the health of th nay produce nausea, vomiting, gastrointestinal blee	e individual. eding, abdominal pain and diarrhoea. Systemic effects:	
	Blood concentration:	Effects:		
	<1.5 g/l	Mild: Impaired visual acuity, coordination and re	action time, emotional lability	
Ingestion	1.5-3.0 g/l	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.		
	3-5 g/l	Severe: Cold clammy skin, hypothermia and hy Atrial fibrillation and atrioventricular block have Respiratory depression may occur, respiratory f in pneumonitis and pulmonary oedema. Convulsions due to severe hypoglycaemia may Acute hepatitis may develop.	been reported. ailure may follow serious intoxication, aspiration of vomitus may result	
Skin Contact	The material may cau dermatitis is often cha spongy layer (spongic Discontinue use if irrit Entry into the blood-st	Not considered to cause discomfort through normal use. The material may cause skin irritation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic). This form of dermatitis is often characterised by skin redness (erythema) and swelling epidermis. Histologically there may be intercellular oedema of the spongy layer (spongiosis) and intracellular oedema of the epidermis. Discontinue use if irritation occurs Entry into the blood-stream through, for example, cuts, abrasions, puncture wounds or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.		
Eye	The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.			
Chronic	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. Consumption of ethanol (in alcoholic beverages) may be linked to the development of Type I hypersensitivities in a small number of individuals. Symptoms, which may appear immediately after consumption, include conjunctivitis, angioedema, dyspnoea, and urticarial rashes. The causative agent may be acetic acid, a metabolite (1). (1) Boehncke W.H., & H.Gall, Clinical & Experimental Allergy, 26, 1089-1091, 1996			
	ΤΟΧΙΟΙΤΥ		IRRITATION	
MICROSHIELD ANGEL BLUE ANTIMICROBIAL HAND GEL.	Not Available		Not Available	
	ΤΟΧΙΟΙΤΥ		IRRITATION	
	Dermal (rabbit) LD5	i0: >15800 mg/kg <sup>[1]</sup>	Eye (rabbit): 500 mg SEVERE	
		.C50; =39 mg/l4hrs <sup>[2]</sup>	Eye (rabbit):100mg/24hr-moderate	
ethanol	Oral(Rat) LD50; >70	692 mg/kg <sup>[1]</sup>	Eye: adverse effect observed (irritating) <sup>[1]</sup>	
			Skin (rabbit):20 mg/24hr-moderate	
			Skin (rabbit):400 mg (open)-mild	

	ΤΟΧΙΟΙΤΥ	IRRITATION		
C.I. Acid Yellow 23	Oral(Rat) LD50; >2000 mg/kg <sup>[1]</sup>	Eye: no adverse e	ffect observed (not irritating) <sup>[1]</sup>	
			effect observed (not irritating) <sup>[1]</sup>	
	ΤΟΧΙΟΙΤΥ	IRRITATION		
water	Oral(Rat) LD50; >90 mg/kg <sup>[2]</sup>	Not Available		
Legend:	1. Value 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			
	-			
ETHANOL	dermatitis is often characterised by skin redness (erythe	The material may cause skin irritation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic). This form of dermatitis is often characterised by skin redness (erythema) and swelling the epidermis. Histologically there may be intercellular oedema of the spongy layer (spongiosis) and intracellular oedema of the epidermis.		
C.I. ACID YELLOW 23	The following information refers to contact allergens as Contact allergies quickly manifest themselves as conta- eczema involves a cell-mediated (T lymphocytes) immu- involve antibody-mediated immune reactions. The signi distribution of the substance and the opportunities for c distributed can be a more important allergen than one w clinical point of view, substances are noteworthy if they Asthma-like symptoms may continue for months or eve condition known as reactive airways dysfunction syndro compound. Key criteria for the diagnosis of RADS inclu onset of persistent asthma-like symptoms within minute spirometry, with the presence of moderate to severe bro lymphocytic inflammation, without eosinophilia, have al irritating inhalation is an infrequent disorder with rates r Industrial bronchitis, on the other hand, is a disorder the particulate in nature) and is completely reversible after production. Allergic reactions which develop in the respiratory sensit disposition of the exposed person are likely to be decis person to allergy. They may be genetically determined - Immunologically the low molecular weight substances b (haptens) or after metabolism (prohaptens). Particular attention is drawn to so-called atopic diathesi asthma and atopic eczema (neurodermatitis) which is a Exogenous allergic alveolitis is induced essentially by a lymphocytes) may be involved. Such allergy is of the de	ct eczema, more rarely as urticaria or ine reaction of the delayed type. Othe ficance of the contact allergen is not s ontact with it are equally important. A with stronger sensitising potential with produce an allergic test reaction in me in years after exposure to the material of the absence of preceding respirato de the absence of preceding respirato s to hours of a documented exposure ponchial hyperreactivity on methacholin so been included in the criteria for diar at occurs as result of exposure due to exposure ceases. The disorder is chai ages as bronchial asthma or rhinocon long in their reaction rates to the man isation, the amount of the allergen, the ve. Factors which increase the sensiti or acquired, for example, during infect ecome complete allergens in the orge s which is characterised by an increase ssociated with increased IgE synthesi llergen specific immune-complexes of	Quincke's oedema. The pathogenesis of contact r allergic skin reactions, e.g. contact urticaria, imply determined by its sensitisation potential: the weakly sensitising substance which is widely which few individuals come into contact. From a ore than 1% of the persons tested. ceases. This may be due to a non-allergenic g exposure to high levels of highly irritating ry disease, in a non-atopic individual, with abrupt to the irritant. A reversible airflow pattern, on e challenge testing and the lack of minimal gnosis of RADS. RADS (or asthma) following an ation of exposure to the irritating substance. high concentrations of irritating substance (often racterised by dyspnea, cough and mucus junctivitis, are mostly the result of reactions of the ifestation of the immediate type. In addition to the e exposure period and the genetically determined vity of the mucosa may play a role in predisposing ions or exposure to irritant substances. nism either by binding to peptides or proteins and susceptibility to allergic rhinitis, allergic bronchia s. the IgG type; cell-mediated reactions (T	
WATER	Suspected allergen *[Hawleys] No significant acute toxicological data identified in litera		following exposure.	
	Suspected allergen *[Hawleys] No significant acute toxicological data identified in litera	ture search.		
Acute Toxicity	Suspected allergen *[Hawleys] No significant acute toxicological data identified in litera	ture search.	×	
Acute Toxicity Skin Irritation/Corrosion	Suspected allergen *[Hawleys] No significant acute toxicological data identified in litera	ture search. Carcinogenicity Reproductivity	×	
Acute Toxicity	Suspected allergen *[Hawleys] No significant acute toxicological data identified in litera	ture search.	×	

# **SECTION 12 Ecological information**

MICROSHIELD ANGEL BLUE ANTIMICROBIAL HAND GEL.	Endpoint	Test Duration (hr)		Species		Value	Source
	Not Available	Not Available		Not Available		Not Available	Not Available
	Endpoint	Test Duration (hr)	Sp	ecies	Value		Source
	LC50	96	Fish		42-mg/L		4
	EC50	48	Crustacea		2-mg/	2-mg/L	
ethanol	EC50	96	Alç	gae or other aquatic plants	-8.358	8-26.503mg/L	4
	EC10	168	Alç	gae or other aquatic plants	1.91-r	ng/L	4
	NOEC	2016	Fis	sh	0.000	375-mg/L	4
C.I. Acid Yellow 23	Endpoint	Test Duration (hr)		Species		Value	Source
	LC50	96		Fish		>120mg/L	2

	EC50	48	Crustacea	>120mg/L	2
	EC50	72	Algae or other aquatic plants	>125mg/L	2
	NOEL	3	Not Available	1-mg/L	4
	Endpoint	Test Duration (hr)	Species	Value	Source
water	Not Available	Not Available	Not Available	Not Available	Not Available
Legend:	Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 (QSAR) - 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				

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)
C.I. Acid Yellow 23	HIGH	HIGH
water	LOW	LOW

#### **Bioaccumulative potential**

Ingredient	Bioaccumulation
ethanol	LOW (LogKOW = -0.31)
C.I. Acid Yellow 23	LOW (BCF = 3)
water	LOW (LogKOW = -1.38)

#### Mobility in soil

Ingredient	Mobility
ethanol	HIGH (KOC = 1)
C.I. Acid Yellow 23	LOW (KOC = 79.38)
water	LOW (KOC = 14.3)

#### **SECTION 13 Disposal considerations**

#### Waste treatment methods Recycle wherever possible or consult manufacturer for recycling options. Consult State Land Waste Authority for disposal. Product / Packaging disposal Bury or incinerate residue at an approved site. Recycle containers if possible, or dispose of in an authorised landfill.

# **SECTION 14 Transport information**

#### Labels Required



Marine Pollutant	NO
HAZCHEM	•2Y

#### Land transport (ADG)

UN number	170		
UN proper shipping name	ETHANOL (ETHYL ALCOHOL) or ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)		
Transport hazard class(es)	Class     3       Subrisk     Not Applicable		
Packing group	III		
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. solut	Ethanol or Ethanol. solution			
Transport hazard class(es)	ICAO/IATA Class ICAO / IATA Subrisk ERG Code	3 Not Applicable 3L			
Packing group	Ш				
Environmental hazard	Not Applicable				
Special precautions for user	Not Applicable         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 A		
Packing group	III		
Environmental hazard	Not Applicable		
Special precautions for user	Special provisions 1	F-E , S-D 144 223 5 L	

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

#### Not Applicable

### Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
ethanol	Not Available
C.I. Acid Yellow 23	Not Available
water	Not Available

# Transport in bulk in accordance with the ICG Code

Product name	Ship Type
ethanol	Not Available
C.I. Acid Yellow 23	Not Available
water	Not Available

# **SECTION 15 Regulatory information**

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

# ethanol is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals
Australian Inventory of Industrial Chemicals (AIIC)

# C.I. Acid Yellow 23 is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

# water is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

# National Inventory Status

National Inventory	Status	
Australia - AIIC / Australia Non-Industrial Use	Yes	
Canada - DSL		
Canada - NDSL	No (ethanol; C.I. Acid Yellow 23; water)	
China - IECSC	Yes	
Europe - EINEC / ELINCS / NLP	Yes	

National Inventory	Status	
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	15/12/2020
Initial Date	05/10/2015

#### SDS Version Summary

Version	Issue Date	Sections Updated
4.1.1.1	01/11/2019	One-off system update. NOTE: This may or may not change the GHS classification
5.1.1.1	15/12/2020	Classification, Physical Properties, Synonyms, Use, Name

#### 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 LOAEL: Lowest Observed Adverse Effect Level TLV: Threshold Limit Value LODE 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 private study, research, review or criticism, as permitted under the Copyright Act, no part may be reproduced by any process without written permission from CHEMWATCH.