schülke -

Microshield Angel Clear

Schulke Australia Pty Ltd

Chemwatch: 62-4117 Version No: 6.1 Chemwatch Hazard Alert Code: 2

Issue Date: 10/03/2023 Print Date: 21/12/2023 L.GHS.AUS.EN.E

Safety Data Sheet according to WHS Regulations (Hazardous Chemicals) Amendment 2020 and ADG requirements

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

Product Identifier

Product name	Microshield Angel Clear	
Chemical Name	lot Applicable	
Synonyms	e Code: 70000722, 70000723, 70001757	
Proper shipping name	THANOL (ETHYL ALCOHOL) or ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)	
Chemical formula	lot Applicable	
Other means of identification	MICROSHIELD ANGEL CLEAR, ANGEL CLEAR	

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

Relevant identified uses SDS are intended for use in the workplace ONLY. For domestic-use products, refer to consumer labels.

Details of the manufacturer or supplier of the safety data sheet

Registered company name	Schulke Australia Pty Ltd	
Address	I Lyonpark Road Macquarie Park NSW 2113 Australia	
Telephone	+61 2 8875 9300	
Fax	75 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 [1]	lammable Liquids Category 3, Serious Eye Damage/Eye Irritation Category 2A	
Legend:	Legend: 1. Classified by Chernwatch; 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/intrinsically safe equipment.	
P242	se non-sparking tools.	
P243	action to prevent static discharges.	
P280	Wear protective gloves, protective clothing, eye protection and face protection.	
P264	Wash all exposed external body areas thoroughly after handling.	

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	EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.		
P337+P313	re irritation persists: Get medical advice/attention.		
P303+P361+P353	361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].		

Precautionary statement(s) Storage

Store in a well-ventilated place. Keep cool.

Precautionary statement(s) Disposal

P403+P235

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	0 ethanol	
Not Available	30-60	Ingredients determined not to be hazardous	
Legend:	Legend: 1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4. Classification drawn from C&L * EU IOELVs available		

SECTION 4 First aid measures

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

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.

Special hazards arising from the substrate or mixture

opecial hazarus ansing nom t			
Fire Incompatibility	Avoid contamination with strong oxidising agents as ignition may result		
Advice for firefighters			
Fire Fighting	 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. 		
Fire/Explosion Hazard	 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. 		
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

Minor Spills	 Slippery when spilt. 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.
Major Spills	 Slippery 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. 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 sae 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	
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. 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.

	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, depression, basement 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 MSDS.
	Tank storage: Tanks must be specifically designed for use with this product. Bulk storage tanks should be diked (bunded). Locate tanks away from heat and other sources of ignition. Cleaning, inspection and maintenance of storage tanks is a specialist operation, which requires the implementation of strict procedures and precautions.
	Keep in a cool place. Electrostatic charges will be generated during pumping. Electrostatic discharge may cause fire. Ensure electrical
Other information	continuity by bonding and grounding (earthing) all equipment to reduce the risk. The vapours in the head space of the storage vessel may lie in the flammable/explosive range and hence may be flammable.
	 For containers, or container linings use mild steel, stainless steel. Examples of suitable materials are: high density polyethylene (HDPE), polypropylene (PP), and Viton (FMK), which have been specifically tested for compatibility with this product.
	For container linings, use amine-adduct cured epoxy paint.
	For seals and gaskets use: graphite, PTFE, Viton A, Viton B.
	Unsuitable material: Some synthetic materials may be unsuitable for containers or container linings depending on the material specification
	and intended use. Examples of materials to avoid are: natural rubber (NR), nitrile rubber (NBR), ethylene propylene rubber (EPDM),
	polymethyl methacrylate (PMMA), polystyrene, polyvinyl chloride (PVC), polyisobutylene. However, some may be suitable for glove
	materials.
	Do not cut, drill, grind, weld or perform similar operations on or near containers. Containers, even those that have been emptied, can contain explosive vapours.
	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
Australia Exposure Standards	ethanol	Ethyl alcohol	1000 ppm / 1880 mg/m3	Not Available	Not Available	Not Available

Emergency Limits

Ingredient	TEEL-1	TEEL-2		TEEL-3
ethanol	Not Available	Not Available		15000* ppm
Ingredient	Original IDLH		Revised IDLH	
ethanol	3,300 ppm		Not Available	

MATERIAL DATA

Exposure controls

	be highly effective in protecting workers and will typically be i 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. Ventilatior 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 or can remove or dilute an air contaminant if designed properly. The mical or contaminant in use. ent employee overexposure. ntilation or a process enclosure ventilation system may be required g "escape" velocities which, in turn, determine the "capture velocitie	ection. that strategically design of a d. Ventilation	
	Type of Contaminant: Air S		Air Speed:	
Appropriate engineering controls			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 (20) (20) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2			
	Within each range the appropriate value depends on:			
	Lower end of the range	Upper end of the range		

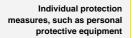
1: Room air currents minimal or favourable to capture	1: Disturbing room air currents
2: Contaminants of low toxicity or of nuisance value only.	2: Contaminants of high toxicity
3: Intermittent, low production.	3: High production, heavy use
4: Large hood or large air mass in motion	4: Small hood-local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

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.

· Adequate ventilation is typically taken to be that which limits the average concentration to no more than 25% of the LEL within the building, room or enclosure containing the dangerous substance

· Ventilation for plant and machinery is normally considered adequate if it limits the average concentration of any dangerous substance that might potentially be present to no more than 25% of the LEL. However, an increase up to a maximum 50% LEL can be acceptable where additional safeguards are provided to prevent the formation of a hazardous explosive atmosphere. For example, gas detectors linked to emergency shutdown of the process might be used together with maintaining or increasing the exhaust ventilation on solvent evaporating ovens and gas turbine enclosures.

· Temporary exhaust ventilation systems may be provided for non-routine higher-risk activities, such as cleaning, repair or maintenance in tanks or other confined spaces or in an emergency after a release. The work procedures for such activities should be carefully considered.. The atmosphere should be continuously monitored to ensure that ventilation is adequate and the area remains safe. Where workers will enter the space, the ventilation should ensure that the concentration of the dangerous substance does not exceed 10% of the LEL (irrespective of the provision of suitable breathing apparatus)





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

Safety glasses with side shields.

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 Eye and face protection 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 No special equipment needed when handling small quantities. Hands/feet protection OTHERWISE: Wear chemical protective gloves, e.g. PVC. Body protection See Other protection below 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 computergenerated selection:

Microshield Angel Clear

Material	CPI
BUTYL	А
NEOPRENE	А
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 deaC)

Glove — In order of recommendation
AlphaTec 02-100
MICROFLEX® 63-864
MICROFLEX® Diamond Grip® MF-300
AlphaTec® Solvex® 37-185
AlphaTec® 38-612
AlphaTec® 58-008
AlphaTec® 79-700
AlphaTec® Solvex® 37-675
TouchNTuff® 83-500
DermaShield™ 73-711

The suggested gloves for use should be confirmed with the glove supplier.

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 (°C)	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	
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	 Unstable in the presence of incompatible materials. Product is considered stable. Hazardous polymerisation will not occur.
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

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Inhaled	depression - characteris	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 of ethanol (eth Effects on the body:		he individual. niting, bleeding from the digestive tract, abdominal pain, and diarrhoea.	
	Blood concentration	Effects		
Ingestion	<1.5 g/L	Mild: impaired vision, co-ordination and reaction time; emotional instability	-	

	1.5-3.0 g/L	Moderate: Slurred speech, cc inco-ordination, emotional ins disturbances in perception an possible blackouts, and impai objective performance in stan tests. Possible double vision, fast heart rate, sweating and Slow breathing may occur rar breathing may develop in cas metabolic acidosis, low blood and low blood potassium. Central nervous system depre progress to coma.	stability, nd senses, ired dardized flushing, incontinence. rely and fast ses of t sugar		
	3-5 g/L	Severe: cold clammy skin, lov temperature and low blood pr Atrial fibrillation and heart blo reported. Depression of breat occur, respiratory failure may serious poisoning, choking or result in lung inflammation an Convulsions due to severe lov may also occur. Acute liver in may develop.	ressure. tock have been thing may follow n vomit may nd swelling. w blood sugar		
Skin Contact	The material may cause dermatitis is often chara spongy layer (spongiosi Discontinue use if irritat Entry into the blood-stre	acterised by skin redness (erythe is) and intracellular oedema of th ion occurs	r repeated exposu ema) and swelling ne epidermis. abrasions, punctur	epidermis. Histolog re wounds or lesion	e a contact dermatitis (nonallergic). This form of ically there may be intercellular oedema of the s, may produce systemic injury with harmful effe ably protected.
	The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may				
Eye	The material may produ produce conjunctivitis.	ice severe irritation to the eye ca	ausing pronounced		
Eye Chronic	produce conjunctivitis. Long-term exposure to Repeated ingestion of e collectively described as deficiency, behavioural Consumption of ethanol Symptoms, which may agent may be acetic aci	ethanol may result in progressive thanol by pregnant women may s foetal alcohol syndrome. These disorders and reduced head size I (in alcoholic beverages) may be appear immediately after consun	e liver damage wit adversely affect th e include mental a e. e linked to the dev mption, include con	th fibrosis or may ex he central nervous s ind physical retarda relopment of Type I njunctivitis, angioed	cacerbate liver injury caused by other agents. system of the developing foetus, producing effe- tion, learning disturbances, motor and language hypersensitivities in a small number of individua ema, dyspnoea, and urticarial rashes. The caus
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Chronic Microshield Angel Clear	produce conjunctivitis. Long-term exposure to a Repeated ingestion of e collectively described as deficiency, behavioural Consumption of ethanol Symptoms, which may a agent may be acetic acid (1) Boehncke W.H., & H TOXICITY Not Available TOXICITY Dermal (rabbit) LD50: Inhalation(Rat) LC50:	ethanol may result in progressive thanol by pregnant women may s foetal alcohol syndrome. These disorders and reduced head size (in alcoholic beverages) may be appear immediately after consun id, a metabolite (1). I.Gall, Clinical & Experimental Al 	e liver damage wit adversely affect th e include mental a e. e linked to the dev mption, include con	th fibrosis or may exhe central nervous s and physical retarda relopment of Type I njunctivitis, angioed 091, 1996 IRRITATION Not Available IRRITATION Eye (rabbit): 500 r Eye (rabbit): 100m	xacerbate liver injury caused by other agents. system of the developing foetus, producing effe- tion, learning disturbances, motor and language hypersensitivities in a small number of individua ema, dyspnoea, and urticarial rashes. The cause ng SEVERE g/24hr-moderate ct observed (irritating) ^[1]
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SECTION 12 Ecological information

Toxicity					
Microshield Angel Clear	Endpoint	Test Duration (hr)	Species	Value	Source

	Not Available	Not Available	Not Available	Not Available	Not Available
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	72h	Algae or other aquatic plants	275mg/l	2
	EC50	48h	Crustacea	2mg/l	4
ethanol	EC50	96h	Algae or other aquatic plants	<0.001mg/L	4
	LC50	96h	Fish	42mg/l	4
	EC50(ECx)	96h	Algae or other aquatic plants	<0.001mg/L	4
Legend:	Ecotox databas	1. IUCLID Toxicity Data 2. Europe ECHA Registe e - Aquatic Toxicity Data 5. ECETOC Aquatic Haz ion Data 8. Vendor Data	0	, ,	,

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	 Recycle wherever possible or consult manufacturer for recycling options. 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.
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SECTION 14 Transport information

Labels Required

Marine Pollutant	NO
HAZCHEM	•2Y

Land transport (ADG)

14.1. UN number or ID number	1170	1170		
14.2. UN proper shipping name	ETHANOL (ETHYL AL	ETHANOL (ETHYL ALCOHOL) or ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)		
14.3. Transport hazard class(es)	Class Subsidiary Hazard	3 Not Applicable		
14.4. Packing group	Ш	III		
14.5. Environmental hazard	Not Applicable			
14.6. Special precautions for user	Special provisions Limited quantity			

Air transport (ICAO-IATA / DGR)

14.1. UN number	1170
14.2. UN proper shipping name	Ethanol or Ethanol. solution

	ICAO/IATA Class	3	
14.3. Transport hazard class(es)	ICAO / IATA Subsidiary Hazard	Not Applicable	
01000(00)	ERG Code	3L	
14.4. Packing group	Ш		
14.5. Environmental hazard	Not Applicable		
14.6. Special precautions for user	Special provisions		A3 A58 A180
	Cargo Only Packing Instructions		366
	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)

14.1. UN number	1170	
14.2. UN proper shipping name	ETHANOL (ETHYL ALCOHOL) or ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)	
14.3. Transport hazard class(es)	IMDG Class IMDG Subsidiary Hazar	3 rd Not Applicable
14.4. Packing group	III	
14.5 Environmental hazard	Not Applicable	
14.6. Special precautions for user	Special provisions 1	F-E , S-D 144 223 5 L

14.7.1. Transport in bulk according to Annex II of MARPOL and the IBC code Not Applicable

Not Applicable

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

Product name	Group
ethanol	Not Available

14.7.3. Transport in bulk in accordance with the IGC Code

Product name	Ship Type
ethanol	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)

Additional Regulatory Information

Not Applicable

National Inventory Status

National Inventory	Status
Australia - AIIC / Australia Non-Industrial Use	Yes
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

National Inventory	Status	
USA - TSCA	Yes	
Taiwan - TCSI	Yes	
Mexico - INSQ	Yes	
Vietnam - NCI	Yes	
Russia - FBEPH	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. These ingredients may be exempt or will require registration	

SECTION 16 Other information

Revision Date	10/03/2023
Initial Date	22/03/2016

SDS Version Summary

Version	Date of Update	Sections Updated	
5.1	23/12/2022	Classification review due to GHS Revision change.	
6.1	10/03/2023	Classification change due to full database hazard calculation/update.	

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
- ES: Exposure Standard
- 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
- DNEL: Derived No-Effect Level
- PNEC: Predicted no-effect concentration
- AIIC: Australian Inventory of Industrial Chemicals
- DSL: Domestic Substances List
- NDSL: Non-Domestic Substances List
- IECSC: Inventory of Existing Chemical Substance in China
- EINECS: European INventory of Existing Commercial chemical Substances
- ELINCS: European List of Notified Chemical Substances
- NLP: No-Longer Polymers
- ENCS: Existing and New Chemical Substances Inventory
- KECI: Korea Existing Chemicals Inventory
- NZIoC: New Zealand Inventory of Chemicals
- PICCS: Philippine Inventory of Chemicals and Chemical Substances
- TSCA: Toxic Substances Control Act
- TCSI: Taiwan Chemical Substance Inventory
- INSQ: Inventario Nacional de Sustancias Químicas
- NCI: National Chemical Inventory
- ▶ FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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