Clearchoice Products Pty Ltd

MATERIAL SAFETY DATA SHEET METHYLATED SPIRITS

ABN 64086032135

December 2020

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SAFETY DATA SHEET

SECTION 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product (material) name: Methylated Spirits (ethyl alcohol) Ethanol, alcohol

- □ Other names:
- □ Recommended use:

□ Supplier: Clearchoice Products Ltd Ptd 1 Hilton Avenue, NSW, 2044

□ **Tel:** 02 9557 0111 Fax: 02 9557 0112

Contact Poisons Info Centre 131 126 or Manufacturer Emergency:

SECTION 2: HAZARDS IDENTIFICATION

□ Classification of the substance or mixture:

Hazardous according to the criteria of the Globally Harmonised System of Classification and Labelling of Chemicals (GHS)

Hazard Categories:

Flammable Liquids - Category 2 Serious Eye Damage/Irritation - Category 2A

Pictograms



□ Signal word: Danger □ Hazard statement(s): H225: Highly flammable liquid and vapour. H319: Causes serious eye irritation Precautionary statement(s):

Preventio	P233	Keep container tightly closed.
	P240	Ground/bond container and receiving equipment.
	P242	Use only non-sparking tools.
	P243	Take precautionary measures against static discharge.
	P210	Keep away from all sources of ignition. No smoking.
	P264	Wash face, hands and any exposed skin thoroughly after
	P280	Wear protective gloves/protective clothing/eye
	P241	Use explosion-proof electrical/ventilating/lighting/equipment.
Response	P303 + P361 + P353 P305 + P351 + P338 P337 + P313	IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses. if present and easy to do. Continue If eye irritation persists: Get medical advice/attention.
Storage	P370 + P378 P403 + P235	In case of fire: Alcohol resistant foam is the preferred fire- fighting medium. However, if it is not available, fine water spray or water for can be used to extinguish Store in a well-ventilated place. Keep cool.
Disposal	P501	Dispose of contents/container in accordance with local / regional / national / international regulations.

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SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS			
MIXTURE:			
Chemical name		CAS No.	% product
Ethanol		64-17-5	<99.70 %
Methyl Isobutyl Ketone (MI	BK)	108-10-1	0.25 %
Water		7732-18-5	Balance %
This is a commercial product and the exact ratio of ingredients may vary slightly and trace quantities of impurities are also possible.			slightly and trace quantities of
SECTION 4: FIRST AID N			
Swallowed	induce (head-	vomiting. If vomiting occurs, lean pa	c provided victim is conscious. Do not tient forward or place on left side o open airway and prevent aspiration.
Еуе	eyelids	liately flush eyes with plenty of water s open. Take care not to rinse contan eek immediate medical attention.	for at least 15 minutes while holding ninated water into the non-affected
Skin	Immec with wa	liately remove all contaminated cloth ater if available. Wash affected areas , seek medical advice.	
Inhaled	Remov comfor and de have q advice lightly	Remove victim from exposure to fresh air. Allow patient to assume most comfortable position and keep warm and at rest. If patient finds breathing difficult, and develops a bluish dis coloration of the skin, ensure airways are clear, and have qualified person give oxygen through a face mask. Seek immediate medical advice. BURNS: Immerse affected area in cold water for 10-15 minutes. Bandage lightly with sterile dressing. Treat for shock if required. Transport to hospital if required.	
Advice to Doctor		symptomatically based on individual i	eactions of patient and judgement of

SECTION 5: FIRE FIGHTING MEASURES

General Measures Flammability Conditions	Flame-proof equipment is necessary in all areas where this chemical is being used. Nearby equipment must be earthed. Remain upwind and notify those downwind of hazard. Highly flammable. Vapours may form explosive mixtures with air.
Extinguishing Media	In case of fire, appropriate extinguishing media include water fog or foam. Keep containers cool with water spray. If safe to do so, remove containers from path of fire. Earth containers when dispensing fluids.
Fire and Explosion Hazard	Highly flammable- explosive vapour. May ignite from sources including cigarettes, open flames, spark producing switches / tools, heaters, naked lights, pilot lights, mobile phones etc
Hazardous Products of Combustion	May evolve toxic gases (carbon oxides, hydrocarbons) when heated to decomposition.
Special Fire Fighting Instructions	Clear fire area of all non-emergency personnel. Stay upwind. Keep out of low areas. Eliminate ignition sources. Move fire exposed containers from fire area if it can be done without risk. Do NOT allow fire fighting water to reach waterways, drains or sewers. Store fire fighting water for treatment.
Personal Protective Equipment	Fire fighters should wear a positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots and gloves) or chemical splash suit. Please note: Structural fire fighters uniform will provide limited protection.

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Flash Point	13 - 18 °C Closed Cup	
Lower Explosion Limit	3.3 %	
Upper Explosion Limit	19.0 %	
Auto Ignition Temperature	No Data Available	
Hazchem Code	YE	
SECTION 6: ACCIDENTAL	. RELEASE MEASURES	
General Response Proc	edure Shut off all possible sources of ignition. Use clean, non-sparking tools and equipment. Avoid accidents, clean up immediately. Increase ventilation.	
Clean Up Procedures	Absorb spill with sand or similar, collect and place in sealable containers for disposal according to local authority guidelines.	
Containment	Stop leak if safe to do so.	
Environmental Precautionary Measures: Do NOT let product reach drains or waterways. If product does enter		

a waterway, advise the Environmental Protection Authority or your local Waste Management.

Evacuation Criteria: Evacuate all unnecessary personnel. **Personal Precautionary Measures:** Personnel involved in the clean up should wear full protective clothing as listed in section 8.

SECTION 7: HANDLING AND STORAGE

Handling	Ensure an eye bath and safety shower are available and ready for use. Observe good personal hygiene practices and recommended procedures. Wash thoroughly after handling. Take precautionary measures against static discharges by bonding and grounding equipment. Avoid contact with eyes, skin and clothing. Do not inhale product vapours. Avoid prolonged or repeated exposure. Operations should be carried out in an efficient fume hood or equivalent system. Remove contaminated clothing and wash before reuse. Discard contaminated shoes. Keep away from combustible material. Empty containers pose a fire risk, evaporate residue under a fume hood. Chemicals should be used only by those trained in handling potentially hazardous materials.
Storage	Store in a cool, dry, well-ventilated, fire-proof area. Keep containers tightly sealed when not in use. Inspect regularly for deficiencies such as damage or leaks. Protect against physical damage. Ground and bond storage containers. Store away from incompatible materials as listed in section 10. Store away from direct sunlight and other sources of heat. This product has a UN Classification of 1170 and a Dangerous Goods Class 3 (flammable) according to The Australian Code for the Transport of Dangerous Goods By Road and Rail

Container Container type/packaging must comply with all applicable local legislation. Store in original packaging as approved by manufacturer.

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SECTION 8: EXPOSURE C	ONTROLS/PERSONAL PROTECTION
General	The following exposure standard has been established by The Australian Safety and Compensation Council (ASCC); Ethyl Alcohol (ethanol) CAS: 64-17-5 TWA = 1000ppm (1880mg/m3)
	Methyl isobutyl ketone CAS: 108-10-1 TWA = 50 ppm (205mg/m3)
	STEL = 75 ppm (307mg/m3)
	NOTE: The exposure value at the TWA is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week.
Exposure Limits	No Data Available
Biological Limits	No information available on biological limits for this product.
Engineering Measures	A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. In poorly ventilated areas, mechanical explosion proof extraction ventilation is recommended. Flammable / explosive vapours may accumulate in poorly ventilated areas. Vapours are heavier than air and may travel some distance to an ignition source and flash back. Maintain vapour levels below the recommended exposure standard.
Personal Protection Equ	ipment RESPIRATOR: Where an inhalation risk exists, wear a type A (Organic vapour) Respirator, At high levels wear Self Contained Breathing apparatus (SCBA) or an Air-line respirator (AS1715/1716).
	EYES: Wear splash proof goggles (AS1336/1337).
	HANDS: Nitrile or neoprene gloves are recommended (AS2161).
	CLOTHING: Flame-retardant coveralls and anti-static footwear (AS3765/2210).
	RESPIRATORS: In general the use of respirators should be limited and engineering controls employed to avoid exposure. If respiratory equipment must be worn, ensure correct respirator selection and training is undertaken. Remember that some respirators may be extremely uncomfortable when used for long periods. The use of air powered or air supplied respirators should be considered where prolonged or repeated use is necessary. Work Hygienic Practices No Data Available

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State		Liquid
Appearance		Liquid, Free of any foreign matter
Odour		No Data Available
Colour		Clear
рН		No Data Available
Vapour Pressure		5.9 kPa (@ 0 °C)
Relative Vapour Density		No Data Available
Boiling Point		78 °C
Melting Point		No Data Available
Freezing Point		No Data Available
Solubility		Completely soluble
Specific Gravity		0.79 g/ml - 0.80 g/ml
Flash Point		13 - 18 °C Closed Cup
Auto Ignition Temp		No Data Available
Evaporation Rate		No Data Available
Bulk Density		No Data Available
Corrosion Rate		No Data Available Decomposition Temperature
Specific Heat		No Data Available
Molecular Weight		No Data Available
Net Propellant Weight		No Data Available Octanol Water Coefficient
Partition Coefficient		No Data Available Saturated Vapour Concentration No
Faitmon Coemcient		Data Available Vapour Temperature
Viscosity		No Data Available
Volatile Percent		No Data Available
VOC Volume		No Data Available
Additional Characteristics		Methyl Isobutyl Ketone (MIBK)
Potential for Dust Explosion		Product is a flammable liquid.
Foot or latencely Durning		No data
Fast or Intensely Burning Characteristics		No data
Flame Propagation or Burning	Rata	No data
of Solid Materials	Nate	
Non-Flammables That Could		No data
Contribute Unusual Hazards to	а	
Fire		
Properties That May Initiate or		No data
Contribute to Fire Intensity		
SECTION 10: STABILITY AND	REAC	TIVITY
General Information	Flam	mable liquid with explosive vapour.
Chemical Stability		uct is stable under normal conditions of use, storage and temperature.
Conditions to Avoid		excessive heat, direct sunlight, static discharges, moisture and high
		eratures.
Materials to Avoid		sing agents (eg. Hypochlorites, peroxides), acids (sulphuric acid), strong
Hazardous Docomposition		s (eg. Hydroxides), heat and ignitions sources.
Hazardous Decomposition Products		y evolve toxic gases (carbon oxides, hydrocarbons) when
	h	ated to decomposition

Products heated to decomposition.

Hazardous Polymerisation No Data Available

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SECTION 11: TOXICOLOGICAL INFORMATION			
General Information	Low to moderate toxicity - irritant. This product has the potential to cause adverse health effects with chronic over exposure. Use safe work practices to avoid eye or shin contact and over exposure via inhalation.		
	Ethanol: Inhalation LC50 Rat: 2000 ppm/10h Ingestion LD50 Mouse: 3450 mg/kg		
	MIBK: Inhalation LC50 (Inhalation): 23300 mg/m3 (rat) Skin LD50 Rabbit: >20 mL/kg Ingestion LD50 Guinea Pig: 1600 mg/kg		
SkinIrritant	Skin irritant. Prolonged contact may result in drying and defatting of the skin, rash and dermatitis. Toxic effects may result from skin absorption.		
Eyelrritant	Irritating to eyes. Exposure may result in lacrimation, irritation, pain and redness.		
Ingestion	Chronic ingestion may result in cirrhosis of the liver. Over exposure may cause central nervous system depression. Low toxicity. Ingestion may result in gastrointestinal irritation, nausea, vomiting, abdominal pain, diarrhoea, headache, dizziness and drowsiness with large doses. Liver damage may occur with high level of chronic ingestion.		
Inhalation	Inhalation may cause irritation to the respiratory system, nose and throat irritation, coughing and headache. Over exposure may result in nausea, dizziness and drowsiness.		
SECTION 12: ECOLOGICAL			
Ecotoxicity	Golden ide LC0: >1000 mg/L/48h Daphnia Magna EC50: >1000 mg/L/24h		
Mobility	If spilled on soild, ethanol will either evaporate or leach into the ground due to the relatively high vapour pressure and low absorption in soil.		
Persistence/Degradability	This product will biodegrade, probably to acetic acid and formaldehyde. Ethanol will volatise from water and biodegrade, and is not expected to bioconcentrate. It will photodegrade in air with a half-life ranging from hours (polluted air) to days (clean air).		
Bioaccumulation Potential Environmental Impact	No information available on bioaccumulation for this product. No data		
SECTION 13: DISPOSAL CO			
General Information	Dispose of in accordance with all local, state and federal regulations. All empty packaging should be disposed of in accordance with Local, State and Federal Regulations or recycled/reconditioned at an approved facility. For small amounts absorb with sand, vermiculite or similar and dispose of to an approved landfill site. Contact the manufacturer for additional information if larger amounts are involved.		
Precautions for landfill	Contact a specialist disposal company or the local waste regulator for advice. This material may be suitable for approved landfill.		

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SECTION 14: TRANSPORT INFORMATION		
Sea Transport IMDG		
Proper Shipping Name	ETHANOL (ETHYL ALCOHOL)	
Class	3 Flammable Liquids	
Subsidiary Risk(s)	No Data Available	
UN Number	1170	
Hazchem	2YE	
Pack Group	II	
Special Provision	No Data Available	
EMS	FE,SD	
Marine Pollutant	No	
Air Transport	ΙΑΤΑ	

National Transport Commission (Australia)

Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

Dangerous Goods Classification	Dangerous Goods according to the criteria of the Australian Code for the ransport of Dangerous Goods by Road & Rail (ADG Code)				
SECTION 15 REGULATORY INFORMATION					
The chemicals in formulation are listed on the Australian Inventory of Chemical Substances (AICS).					
The chemical is listed ir	The chemical is listed in schedule 5 of the SUSMP.				
SECTION 16 OTHER II	SECTION 16 OTHER INFORMATION				
□ Date of preparation	or last revision of the MSDS December 2020				
Acryoyms:					
ADG Code	Australian Code for the Transport of Dangerous Goods by Road and Rail (7 th				
	edition)				
AICS	Australian Inventory of Chemical Substances				
ASCC	Office of the Australian Safety and Compensation Council Chemical Abstracts Service Registry Number Emergency action code of numbers and letters that provide information to				
CAS number					
Hazchem Code					
	emergency services especially firefighters				
IARC	International Agency for Research on Cancer				
NOS	Not otherwise specified				
NTP	National Toxicology Program (USA)				
SUSMP	Standard for the Uniform Scheduling of Medicines & Poisons				
UN Number	United Nations Number				
Disclaimer:					

A) This MSDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. The information is meant to describe Safety Requirements of the product and should not be construed as guaranteeing specific properties. This MSDS is analogous to the data for the principal components of the mixture/compound. No warranty, express or implied, is made as to its accuracy, reliability or completeness.

B) Each user should read this MSDS, all product labels, and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.

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C) We can not accept any liability for any damage or injury caused by the product as it is sold and its use, handling and storage are completely out of our control.