

MATERIAL SAFETY DATA SHEET

1. SUBSTANCE AND COMPANY IDENTIFICATION

PRODUCT NAME	MOULD CLEANER 501
PROPER SHIPPING NAME	FLAMMABLE LIQUID, N.O.S. (TOLUENE & MEK)
RECOMMENDED USE	Mould Cleaner
COMPANY NAME	Chem-Trend Australia Pty. Ltd.
ADDRESS	3 Brand Drive, Thomastown Victoria 3074 Australia
TELEPHONE	(03) 9464 7577
EMERGENCY TELEPHONE	(03) 9464 7577 9a.m. to 5 p.m.
AFTER HOURS EMERGENCY	000 Police or Emergency Services
POISONS CENTRE	13 11 26

2. HAZARDS IDENTIFICATION

HAZARD CLASSIFICATION AUSTRALIA	DANGEROUS GOODS. HAZARDOUS. Classified as Hazardous according to criteria of NOHSC. Xn - Harmful
HAZARD CLASSIFICATION NEW ZEALAND	HAZARDOUS. Classified as hazardous according to criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.
NZ CLASSIFICATION & TYPE	3.1B, 6.4A
POISONS SCHEDULE	AUST: SCHEDULE 5 POISON.
RISK PHRASES	R11 Highly flammable. R20 Harmful by in halation. R36 Irritating to eyes. R66 Repeated exposure may cause skin dryness or cracking. R67 Vapours may cause drowsiness and dizziness.
SAFETY PHRASES	S9 Keep container in a well ventilated place. S16 Keep away from sources of ignition. S23 Do not breathe vapour or spray. S25 Avoid contact with eyes. S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S29 Do not empty into drains. S33 Take precautionary measures against static discharge. S45 In case of accident of if you feel unwell, seek medical advice immediately – show the label or msds.

3. COMPOSITION / INFORMATION ON INGREDIENTS

PURE SUBSTANCES	Methyl Ethyl Ketone	78-93-3	30-60%
	Toluene	108-88-3	30-60%

4. FIRST AID MEASURES

FIRST AID INSTRUCTIONS (see section 11 of this MSDS for Health Effects)	<p>Swallowed: If product is swallowed, DO NOT induce vomiting because of the danger of aspiration of the solvent into the lungs. Keep at rest. Seek medical attention immediately.</p> <p>Eye: If product comes in contact with eyes flush with water for at least 15 minutes holding eyes open. Seek medial attention immediately.</p> <p>Skin: It product comes in contact with skin wash with water (and soap if available). Remove contaminated clothing (including watches & shoes) launder before reuse. Seek medical attention if irritation develops or persists.</p> <p>Inhalation: If adverse effects such as dizziness, nausea or irritation are noted move victim to fresh air. Seek medical attention immediately. Administer artificial respiration if breathing has stopped.</p>
SPECIAL TREATMENT	Advice to Doctor: Treat symptomatically. Avoid gastric lavage: risk of aspiration of product to the lungs with the potential to cause chemical pneumonitis.
WORKPLACE FACILITIES	Eye Wash Bath and Safety Showers.

5. FIRE FIGHTING MEASURES

FIRE HAZARDS	Highly Flammable Liquid. Remove all sources of ignition, heat, sparks and flames. Closed fire exposed containers should be cooled with water to prevent pressure build-up which could result in container rupture. Do not cut, puncture or weld on empty drum because it may contain explosive or harmful vapours.
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FIRE HAZARD PROPERTIES	FLASH POINT	-6.7oC	
	FLAMMABLE LIMITS IN AIR	Lower (LEL): 1.2%	Upper (UEL): 11.5%
	AUTO IGNITION TEMPERATURE	>450oC	
	FLAMMABILITY CLASSIFICATION	AUS: Class 3	NZ: Class 3.1B
	HAZARDOUS DECOMPOSITION OR BY-PRODUCTS	No decomposition products except on burning. Combustion products are Carbon Dioxide and Carbon Monoxide.	
	HAZARDOUS REACTIONS	Oxidising agents, mineral acids, halogenated organic compounds, chloroform and alkalis, stored mixtures with IPA.	
EXTINGUISHING MEDIA	Use Water Spray, Water Fog or Fine Mist, Alcohol Foam. Do not use water jet.		
HAZCHEM	3[Y]E		
FIRE FIGHTING EQUIPMENT	Fire fighters should wear self contained breathing apparatus (SCBA) when fire fighting in a confined space.		

6. ACCIDENTAL RELEASE MEASURES

SPILLS AND LEAKS	Eliminate all ignition sources. Vapours are heavier than air and may spread long distances or collect in low spots. Wear protective equipment as specified in the PPE section of this MSDS. Shut off source of spill if possible and safe to do so. Prevent liquid from entering sewers, watercourses, or low-lying areas. Contain with sand or earth. Collect absorbed material using non sparking tools. See Section 13 for Disposal Considerations.
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7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING	Highly flammable Liquid. Do not open near open flame, sources of heat or ignition. Remove all sources of ignition, heat, sparks and flames. Open container slowly to control possible pressure release. Take precautionary measures against electrostatic loading, ground all equipment pumping product. Do not cut, puncture or weld on empty drum because it may contain explosive or harmful vapours. Wear PPE as specified in the PPE section of this MSDS. Use exhaust ventilation as specified in Engineering Controls section of this MSDS. Wash hands thoroughly after use and before eating, drinking, smoking or using the toilet. Do not eat, drink or smoke while using this product.
CONDITIONS FOR SAFE STORAGE	Store in a cool well ventilated area away from direct sunlight, heat and sources of ignition. Store away from strong oxidisers. Store in suitable labelled containers. Have appropriate fire extinguishers available in and near the store area. Keep containers closed when not in use.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION (PPE)

EXPOSURE STANDARDS	NAME	TWA		STEL		FOOTNOTE
		ppm	mg/m ³	ppm	mg/m ³	
AUSTRALIA NOHSC	Methyl Ethyl Ketone	150	445	300	890	NOHSC
	Toluene	50	191	150	574	NOHSC
NEW ZEALAND WES	Methyl Ethyl Ketone	150	445	300	890	OSH
	Toluene	50	188	-	-	OSH
ENGINEERING CONTROLS	Ensure ventilation is adequate to maintain air concentrations below exposure standards. If local exhaust ventilation is used, ensure sufficient air is replaced to compensate the air that has been removed. Vapour is heavier than air and will tend to accumulate in hollows or sumps. DO NOT enter confined spaces where vapours may have collected.					
RESPIRATOR TYPE (AS/NZS1716)	Good industrial hygiene practices recommend that engineering controls (such as local and/or mechanical ventilation be used to reduce environmental concentrations to the permissible exposure level. Respirators may be used when engineering and work practice controls are not technically feasible, when such controls are in the process of being installed, or when they fail and need to be supplemented. If the use of a respirator is necessary use only AS/NZS1716 or AS1715 approved air supplied respirator or an air-purifying respirator.					
EYE PROTECTION	Safety glasses with side shields or chemical goggles.					
GLOVE TYPE	Impervious gloves (such as Laminated Film, Supported Polyvinyl Alcohol).					
CLOTHING	Appropriate clothing to avoid skin contact such as long sleeves and trousers or coveralls, enclosed footwear or safety boots.					

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE / ODOUR	Clear fluid / ketone solvent odour
PH VALUE	Not applicable
VAPOUR PRESSURE	70 mmHg @ 20°C
VAPOUR DENSITY (Air =1)	>1 (@20°C)
BOILING POINT (range)	Approx. 88°C
MELTING / FREEZING POINT	Not available
SOLUBILITY IN WATER	Nil
SPECIFIC GRAVITY	0.83
FLASH POINT	-6.7°C
% VOLATILE BY WEIGHT	100%
EVAPOURATION RATE	<1 (Ether = 1)
ADDITIONAL INFORMATION	Additional information can be found in Section 5 Fire Hazard Properties and in section 10 Stability / Reactivity.

10. STABILITY AND REACTIVITY

STABILITY	Stable
CONDITIONS TO AVOID	Sources of heat, ignition and open flames
INCOMPATIBILITY	Natural rubber, butyl rubber, EPDM, polystyrene.
HAZARDOUS DECOMPOSITION PRODUCTS	No decomposition products except on burning.
HAZARDOUS POLYMERIZATION / CONDITIONS TO AVOID	None known
SPECIFIC DATA FOR MIXTURE	As above
SPECIFIC INGREDIENT DATA	Not available

11. TOXICOLOGICAL INFORMATION

SYMPTOMS AND HEALTH EFFECTS	<p>Swallowed: Harmful by ingestion. Large amounts ingested product will result in central nervous system effects such as: headache, dizziness, hallucinations, euphoria, tingling of the extremities, vomiting, and possibly loss of consciousness. Vomiting may cause the product to be aspirated to the lungs possibly resulting in chemical pneumonitis.</p> <p>Eye: High vapour concentrations produce conjunctiva irritation, redness and swelling with a burning sensation and blurred vision. Can cause burns to the eye and result in corneal damage.</p> <p>Skin: May be drying to the skin and produces dryness and cracking after prolonged use. Prolonged contact will result in irritant contact dermatitis if care is not taken to wash affected areas.</p> <p>Inhalation: Harmful by inhalation. Vapour concentrations above the exposure standard are irritating to the respiratory system producing central nervous system effects such as dizziness, headaches, nausea, vomiting and loss of appetite.</p> <p>Chronic: This product contains an experimental teratogen and affects the peripheral nervous system (arms and legs). People with pre-existing liver or kidney dysfunction, central nervous system or skin complaints should avoid unnecessary exposure to this product. Repeated over exposure may cause hemolysis of the red blood cells leading to possible liver and kidney damage.</p> <p>Other Health Effects Information: The effects of this product in combination with n-Hexane or Ethanol are potentiated (greatly increased). This means that the effects suffered by inhalation or ingestion will be increased, or experienced more quickly. Toluene may be harmful to the human foetus based on positive test results with laboratory animals.</p>
TOXICITY DATA	<p>There is no data available for the mixture.</p> <p>MEK: Oral: 2737 mg/kg (rat). Inhalation: 100 ppm (human)</p> <p>Toluene: Oral: >2000 mg/kg (rat); Dermal: >2000 mg/kg (rabbit). Inhalation: >20 mg/l for 4 hr rat.</p>

12. ECOTOXICITY INFORMATION

ECOTOXICITY DATA	<p>There is no data available for the mixture.</p> <p>MEK: Fish toxicity (rainbow trout, goldfish, bluegill): LC₅₀ (96hr): Based on data for a similar component or preparation, this product is expect to be toxic to aquatic organisms. Daphnia Magna EC₅₀ (48hr): Long term adverse effects to aquatic organisms are possible if continuous exposure is maintained.</p> <p>TOLUENE: Fish toxicity (rainbow trout, goldfish, bluegill): LC₅₀(96hr), Toxic: 1-10mg/l. Green algae (toxicity threshold 7-8 days): Low Toxicity >100 mg/l.</p> <p>This product can degrade rapidly in air. This product is expected to be removed in wastewater treatment. Based upon data for similar component or estimated data, this product is expected to biodegrade rapidly and be 'readily' biodegradable accordingly to OECD guidelines.</p> <p>Toluene floats on water, if product enters soil it will be mobile and may contaminate ground water.</p> <p>MEK will rapidly evaporate to the air if released into the water.</p>
ENVIRONMENT RISK PHRASES	<p>NOHSC has not classified MEK or Toluene with Environmental risk phrases. However it is recommended that extreme caution be taken to avoid discharge to waterways, grasslands and areas with local fauna and flora. It is recommended that this product be used only in accordance with this MSDS and that the product and it's container be disposed of in accordance with local regulations.</p>

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHODS	<p>Disposal of product, and of empty containers should be done by a licensed Disposal Management Company. This product is NOT suitable for disposal by either landfill or via municipal sewers or drains, This product is ashless and can be burned directly in appropriate equipment.</p>
SPECIAL PRECAUTIONS	<p>Do not discharge into drains, surface waters, ground, ground water, water course's sewerage's or drainage systems. Advice may be sought from the Environmental Protection Agency or from an authorised disposal authority.</p>

14. TRANSPORT INFORMATION

UN NUMBER	1993
CLASS	3
PACKING GROUP	II
HAZCHEM	3[Y]E
PROPER SHIPPING NAME	FLAMMABLE LIQUID, N.O.S. (TOLUENE & MEK)
TRANSPORT	<p>This material is a Class 3 - Flammable Liquid according to The Australian Code for the Transport of Dangerous Goods by Road and Rail.</p> <p>Class 3 - Flammable Liquids are <u>incompatible</u> in a placard load with any of the following;</p> <ul style="list-style-type: none"> Class 1, Explosives Class 2.1, Flammable Gases, if both the Class 3 and Class 2.1 dangerous goods are in bulk Class 2.3, Toxic Gases Class 4.2 Spontaneously Combustible Substances Class 5.1 Oxidising Agents and Class 5.2, Organic Peroxides Class 6 Toxic Substances (where the flammable liquid is nitromethane) Class 7 Radioactive Substances.
EPG Number	HB76 – 14
IERG Number	14
EmS Number	F-E S-E

15. REGULATORY INFORMATION

AUSTRALIA	Hazardous according to NOHSC: Harmful Xn. Schedule 6 Poison.
NEW ZEALAND	Classified as hazardous according to criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.

16. OTHER INFORMATION

REFERENCES	SF-47 3/07/2006
DOCUMENT NUMBER	MSDS-092 9/04/2008