



Allco Waterproofing Solutions

# JM Membrane Bonding Adhesive

## Safety Data Sheet

### 1. Identification of Substance & Company

#### Product

Product name	JM Membrane Bonding Adhesive
Product code	NA
HSNO approval	HSR002662
Approval description	Surface Coatings and Colourants (Flammable) Group Standard 2020
UN number	1133
Proper Shipping Name	ADHESIVES
DG class	3
Packaging group	II
Hazchem code	3YE
Uses	Adhesive

#### Company Details

Company	<b>Allco Waterproofing Solutions</b>	
Address	5 Te Kia Place Albany Auckland New Zealand	PO Box 101-903 North Shore City 0745 New Zealand
Telephone	+64 9 448 1185	
Website	www.allco.co.nz	

**Emergency Telephone Number: 021 441 329**

### 2. Hazard Identification

#### Approval

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO, Approval HSR002662, Surface Coatings and Colourants (Flammable) Group Standard 2020). The substance has been classified as hazardous according to the criteria in the Hazardous substances (Hazard Classification) Notice 2020.

#### Classes

Flammable liquid cat 2  
Acute toxicity (oral) cat 4  
Aspiration cat 1  
Skin irritation cat 2  
Eye irritation cat 2  
Reproductive toxicity cat 2  
STOT RE cat 1  
STOT SE cat 3  
Aquatic chronic cat 2

#### Hazard Statements

H225 - Highly flammable liquid and vapour.  
H302 - Harmful if swallowed.  
H304 - May be fatal if swallowed and enters airways.  
H315 - Causes skin irritation.  
H319 - Causes serious eye irritation.  
H361 - Suspected of damaging fertility or the unborn child.  
H372 - Causes damage to organs through prolonged or repeated exposure.  
H336 - May cause drowsiness or dizziness.  
H411 - Toxic to aquatic life with long lasting effects.

#### SYMBOLS

**DANGER**



#### Other Classifications

There are no other classifications that are known to apply.

#### Precautionary Statements

<b>Prevention</b>	P101 - If medical advice is needed, have product container or label at hand. P102 - Keep out of reach of children. P103 - Read label before use.
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	P201 - Obtain special instructions before use.
	P202 - Do not handle until all safety precautions have been read and understood.
	P210 - Keep away from ignition sources. No smoking.
	P233 - Keep container tightly closed.
	P240 - Ground/bond container and receiving equipment.
	P241 - Use explosion-proof electrical equipment.
	P242 - Use only non-sparking tools.
	P243 - Take precautionary measures against static discharge.
	P260 - Do not breathe vapours.
	P264 - Wash hands thoroughly after handling.
	P270 - Do not eat, drink or smoke when using this product.
	P271 - Use only outdoors or in a well-ventilated area.
	P273 - Avoid release to the environment.
<b>Response</b>	P280 - Wear protective gloves/protective clothing/eye protection/face protection.
	P301+P310 - IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician.
	P330 - Rinse mouth.
	P331 - Do NOT induce vomiting.
	P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
	P332+P313 - If skin irritation occurs: Get medical advice/ attention.
	P362 - Take off contaminated clothing and wash before re-use.
	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.
	P308+P313 - IF exposed or concerned: Get medical advice/ attention.
	P304+P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
	P312 - Call a POISON CENTRE or doctor/physician if you feel unwell.
	P391 - Collect spillage.
<b>Storage</b>	P403+P235 - Store in a well-ventilated place. Keep cool.
	P405 - Store locked up.
<b>Disposal</b>	P501 - Dispose of contents/container in accordance with local/regional/national/international regulation.

### 3. Composition / Information on Ingredients

Component	CAS/ Identification	Conc (%)
Toluene	108-88-3	30-50%
Hexane	110-54-3	20-30%
Acetone	67-64-1	10-20%

This is a commercial product whose exact ratio of components may vary. Trace quantities of impurities are also likely.

### 4. First Aid

#### General Information

If medical advice is needed, have product container or label at hand. You should call the National Poisons Centre if you feel that you may have been harmed or irritated by this product. The number is 0800 764 766 (0800 POISON) (24 hr emergency service).

Recommended first aid facilities      Ready access to running water is required. Accessible eyewash is required.

#### Exposure

<b>Swallowed</b>	IF SWALLOWED: Do NOT induce vomiting. Rinse mouth. If vomiting occurs, place victim face downwards, with the head turned to the side and lower than the hips to prevent vomit entering the lungs.
<b>Eye contact</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Apply continuous irrigation with water for at least 15 minutes holding eyelids apart. If eye irritation persists: Get medical advice.
<b>Skin contact</b>	IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: get medical advice/attention. Take off contaminated clothing and wash before re-use.
<b>Inhaled</b>	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTRE or doctor/physician if you feel unwell.

#### Advice to Doctor

Treat symptomatically



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### 5. Firefighting Measures

<b>Fire and explosion hazards:</b>	Vapours may form an explosive mixture in air which can be ignited by many sources such as pilot lights, open flames, electrical motors, switches and static electricity.
<b>Suitable extinguishing substances:</b>	Carbon dioxide, extinguishing powder, foam.
<b>Unsuitable extinguishing substances:</b>	Unknown.
<b>Products of combustion:</b>	Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Water. May form toxic mixtures in air and may accumulate in sumps, pits and other low-lying spaces, forming potentially explosive mixtures.
<b>Protective equipment:</b>	Self-contained breathing apparatus. Safety boots, non-flammable overalls, gloves, hat and eye protection.
<b>Hazchem code:</b>	3YE

### 6. Accidental Release Measures

<b>Containment</b>	If greater than 1000L is stored, secondary containment and emergency plans to manage any potential spills must be in place. In all cases design storage to prevent discharge to storm water.
<b>Emergency procedures</b>	In the event of spillage alert the fire brigade to location and give brief description of hazard. Stop the source of the leak, if safe to do so. Shut off all possible sources of ignition. Wear protective equipment to prevent skin, eye and respiratory exposure. Clear area of any unprotected personnel. Contain using sand, earth or vermiculite. Do not use sawdust. Prevent by whatever means possible any spillage from entering drains, sewers, or water courses. (If this occurs contact your regional council immediately).
<b>Clean-up method</b>	Use absorbent (soil, sand or other inert material). Rags are not recommended for the clean-up of spills, as they may create fire or environmental hazard. Collect and seal in properly labelled containers or drums for disposal. If contamination of crops, sewers or waterways has occurred advise local emergency services.
<b>Disposal</b>	Mop up and collect recoverable material into labelled containers for recycling or salvage. Recycle containers wherever possible. This material may be suitable for approved landfill. Dispose of only in accord with all regulations.
<b>Precautions</b>	Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work up wind or increase ventilation.

### 7. Storage & Handling

<b>Storage</b>	Avoid storage of harmful substances with food. Store out of reach of children. Containers should be kept closed in order to minimise contamination. Keep from extreme heat and open flames. Avoid contact with incompatible substances as listed in Section 10. Location compliance certificates must be available if storing >100L (containers >5L), 250L (containers ≤5L), 50L (in use). Containers (and outer packaging) must bear the prescribed labelling, including the Hazchem code, UN number, flammability warning and name of contents.
<b>Handling</b>	Keep exposure to a minimum, and minimise the quantities kept in work areas. See section 8 with regard to personal protective equipment requirements. Avoid skin and eye contact and inhalation of vapour, mist or aerosols.

### 8. Exposure Controls / Personal Protective Equipment

#### Workplace Exposure Standards

A workplace exposure standard (WES) has not been established by WorkSafe NZ for this product. There is a general limit of 3mg/m<sup>3</sup> for respirable particulates and 10mg/m<sup>3</sup> for inhalable particulates when limits have not otherwise been established.

NZ Workplace Exposure Stds	Ingredient	WES-TWA	WES-STEL
	Toluene	50ppm, 188 mg/m <sup>3</sup> (skin)	data unavailable
	Hexane	20ppm, 72mg/m <sup>3</sup>	data unavailable
	Acetone	500ppm, 1185mg/m <sup>3</sup>	1000ppm, 2375 mg/m <sup>3</sup>

#### Engineering Controls

In industrial situations, it is expected that employee exposure to hazardous substances will be controlled to a level as far below the WES as practicable by applying the hierarchy of control required by the Health and Safety at Work Act (2015) and the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016. Exposure can be reduced by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. If you believe air borne concentrations of mists, dusts or vapours are high, you are advised to modify processes or increase ventilation.



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### Personal Protective Equipment

#### General

Personal Protective Equipment (PPE) should not be used as the primary means of exposure protection, except in the event of an accident or emergency situation or where all other means of protection have proven to inadequate. Clean PPE after use or dispose of as appropriate. Store PPE for re-use in a clean place. Regular training on the correct use of PPE should be provided. In particular the correct fitting and use of respirators and where applicable the cleaning of respirators should be undertaken.

#### Eyes



Avoid contact with eyes. Use safety glasses and or chemical splash goggles if splashes are possible. Select eye protection in accordance with AS/NZS 1337.

#### Skin



Protective gloves are recommended. Nitrile gloves are recommended. Protective gloves or suitably resistant material must comply with AS 2161. Replace frequently. Gloves should be checked for tears or holes before use. Protective clothing must comply with AS 2919, AS3765.1 or AS3765.2. PVC or rubber boots must comply with AS/NZS 2210.2 and selected and maintained in accordance with AS/NS2210.1.

#### Respiratory



A respirator when airborne concentrations approach the WES (section 8). Respirators must have filters appropriate to the duty and comply with AS/NZS1716 and selected, used and maintained in accordance with AS/NS 1715. Use a respirator with an organic vapour cartridge. If using a respirator, ensure that the cartridges are correct for the potential air contamination and are in good working order. Fit testing and clear guidelines and training for use and maintenance of PPE are necessary.

### WES Additional Information

Not applicable

## 9. Physical & Chemical Properties

Appearance	yellow liquid
Odour	aromatic solvent odour
pH	no data
Vapour pressure	no data
Viscosity	no data
Boiling point	>35°C
Volatile materials	no data
Freezing / melting point	no data
Solubility	insoluble in water
Specific gravity / density	0.86g/cm <sup>3</sup>
Flash point	-18°C
Danger of explosion	no data
Auto-ignition temperature	no data
Upper & lower flammable limits	no data
Corrosiveness	non corrosive

## 10. Stability & Reactivity

Stability	Stable
Conditions to be avoided	Flammable substance. Keep away from sources of ignition at all times. Containers should be kept closed in order to avoid contamination.
Incompatible groups	Oxidisers, strong acids, bases.
Substance Specific Incompatibility	none known
Hazardous decomposition products	Oxides of carbon
Hazardous reactions	none known

## 11. Toxicological Information

### Summary

IF SWALLOWED: can result in nausea, vomiting and central nervous system depression. If the victim is uncoordinated there is greater likelihood of vomit entering the lungs and causing subsequent acute effects such as chemical pneumonia, varying degrees of pulmonary injury or death.



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IF IN EYES: may cause eye irritation.

IF ON SKIN: may cause skin irritation. Repeated or prolonged contact may cause drying out of the skin resulting in non-allergic dermatitis. This product can be absorbed through the skin.

IF INHALED: vapours may be irritating to the respiratory system, Vapours may cause dizziness and drowsiness. At high concentration

CHRONIC TOXICITY: Toluene vapours may cause reversible damage to kidneys and liver. Prolonged exposure can cause nerve damage (CNS). Toluene may also affect hearing. Hexane may affect the CNS and peripheral nervous system.

### Supporting Data

<b>Acute</b>	<b>Oral</b>	Using LD <sub>50</sub> 's for ingredients, the calculated LD <sub>50</sub> (oral, rat) for the mixture is between 300 and 2000 mg/kg. Data considered includes: Toluene 636 mg/kg (rat), Hexane 25000mg/kg (rat), Acetone 3000 mg/kg (mouse).
	<b>Dermal</b>	Using LD <sub>50</sub> 's for ingredients, the estimated LD <sub>50</sub> (dermal, rat) for the mixture is >2000 mg/kg.
	<b>Inhaled</b>	Using LC <sub>50</sub> 's for ingredients, the calculated LC <sub>50</sub> (inhalation, rat) for the mixture is >5mg/L. Data considered includes: Toluene 12.5 - 28.8 mg/l (vapour, rat), Hexane 48000ppm/4H (rat).
	<b>Eye</b>	The mixture is considered to be an eye irritant, because some of the ingredients present are considered eye irritants in more concentrated form.
	<b>Skin</b>	The mixture is considered to be a skin irritant, because some of the ingredients present are considered skin irritants in more concentrated form.
<b>Chronic</b>	<b>Sensitisation</b>	No ingredient present at concentrations > 0.1% is considered a sensitizer.
	<b>Mutagenicity</b>	No ingredient present at concentrations > 0.1% is considered a mutagen.
	<b>Carcinogenicity</b>	No ingredient present at concentrations > 0.1% is considered a carcinogen.
	<b>Reproductive / Developmental</b>	The mixture is considered to be a suspected reproductive or developmental toxicant. Toluene is suspected to be a reproductive or developmental toxicant. Octamethylcyclotetrasiloxane may have effects on the foetus and cause reproductive disorders on tests with laboratory animals.
	<b>Systemic</b>	The mixture is considered to be a suspected target organ toxicant. Toluene vapours may cause reversible damage to kidneys and liver. Prolonged exposure can cause nerve damage (CNS). Toluene may also affect hearing. Chronic overexposure to aliphatic hydrocarbons can cause loss of coordination, reduction in reaction times and central and peripheral nervous system damage (n-Hexane). This substance may cause dizziness and drowsiness.
	<b>Aggravation of existing conditions</b>	None known.

## 12. Ecological Data

### Summary

This mixture is toxic towards aquatic organisms with long lasting effect and harmful towards terrestrial vertebrates.

### Supporting Data

<b>Aquatic</b>	Using EC <sub>50</sub> 's for ingredients, the calculated EC <sub>50</sub> for the mixture is between 1 mg/L and 10 mg/L Data considered includes: Toluene 5.8 mg/l (96hr, <i>Oncorhynchus mykiss</i> ), 11.5 mg/l (48hr, <i>Daphnia magna</i> ), 12.5mg/L (72hr, Algal) , Hexane 2.50mg/L (96hr, Fathead minnow), 3.9mg/L )48hr, <i>Daphnia magna</i> ).
<b>Bioaccumulation</b>	No data
<b>Degradability</b>	No data
<b>Soil</b>	No evidence of soil toxicity.
<b>Terrestrial vertebrate</b>	This mixture is harmful towards terrestrial vertebrates, see acute toxicity for data.
<b>Terrestrial invertebrate</b>	This mixture is not considered ecotoxic towards terrestrial invertebrates.
<b>Biocidal</b>	Not biocidal.
<b>Environmental effect levels</b>	No EELs are available for this mixture or ingredients.

## 13. Disposal Considerations

<b>Restrictions</b>	There are no product-specific restrictions, however, local council and resource consent conditions may apply, including requirements of trade waste consents.
<b>Disposal method</b>	Disposal of this product must comply with the Hazardous Substances (Disposal) Notice 2017 and the requirements of the Resource Management Act for which approval should be sought from the Regional Authority. The substance must be treated and therefore rendered non-hazardous before discharge to the environment.



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#### Contaminated packaging

Disposal of contaminated packaging must comply with the Hazardous Substances (Disposal) Notice 2017 clause 12. Ensure that the package is rendered incapable of containing any substance and is disposed in a manner that is consistent with the requirements of the substance it contained and the material of the package. If possible reuse or recycle packaging.

## 14. Transport Information

#### Land Transport Rule: Dangerous Goods 2005 - NZS 5433:2007

Transport according to NZS 5433 (Transport of Hazardous Substances on Land). Considered a dangerous good for transport.

<b>UN number:</b>	1133	<b>Proper shipping name:</b>	ADHESIVES
<b>Class(es)</b>	3	<b>Packing group:</b>	II
<b>Precautions:</b>	Flammable liquid	<b>Hazchem code:</b>	3YE

#### IMDG

<b>UN number:</b>	1133	<b>Proper shipping name:</b>	ADHESIVES
<b>Class(es)</b>	3	<b>Packing group:</b>	II
<b>Precautions:</b>	Flammable liquid	<b>EmS</b>	F-E, S-D

#### IATA

<b>UN number:</b>	1133	<b>Proper shipping name:</b>	ADHESIVES
<b>Class(es)</b>	3	<b>Packing group:</b>	II
<b>Precautions:</b>	Flammable liquid	<b>ERG Guide</b>	128

## 15. Regulatory Information

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO). Approval code: HSR002662, Surface Coatings and Colourants (Flammable) Group Standard 2020. All ingredients appear on the NZIoC.

#### Specific Controls

Key workplace requirements are:

SDS	To be available within 10 minutes in workplaces storing any quantity.
Inventory	An inventory of all hazardous substances must be prepared and maintained.
Packaging	All hazardous substances should be appropriately packaged including substances that have been decanted, transferred or manufactured for own use or have been supplied
Labelling	Must comply with the Hazardous Substances (Labelling) Notice 2017.
Emergency plan	Required if > 1000L is stored.
Certified handler	Not required.
Tracking	Not required.
Bundling & secondary containment	Required if > 1000L is stored.
Signage	Required if > 250L is stored.
Location compliance certificate	Required if > 100L (containers >5L), 250L (containers ≤5L), 50L (in use) is stored in any one location.
Flammable zone	Must be established if > 100L (closed containers), 25L (decanting), 5L (open occasionally), 1L (in use), stored in any one location is stored in any one location.
Fire extinguisher	If > 250L present.

Note: The above workplace requirements apply if only this particular substance is present. The complete set of controls for a location will depend on the classification and total quantities of other substances present in that location.

#### Other Legislation

In New Zealand, the use of this product may come under the Resource Management Act and Regulations, the Health and Safety at Work Act 2015 and the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016, local Council Rules and Regional Council Plans.



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### 16. Other Information

#### Abbreviations

<b>Approval Code</b>	Approval HSR002662, Surface Coatings and Colourants (Flammable) Group Standard 2020 Controls, EPA. <a href="http://www.epa.govt.nz">www.epa.govt.nz</a>
<b>CAS Number</b>	Unique Chemical Abstracts Service Registry Number
<b>EC<sub>50</sub></b>	Ecotoxic Concentration 50% – concentration in water which is fatal to 50% of a test population (e.g. daphnia, fish species)
<b>EPA</b>	Environmental Protection Authority (New Zealand)
<b>GHS</b>	Globally Harmonised System of Classification and Labelling of Chemicals, 7 <sup>th</sup> revised edition, 2017, published by the United Nations.
<b>HAZCHEM Code</b>	Emergency action code of numbers and letters that provide information to emergency services, especially fire fighters
<b>HSNO</b>	Hazardous Substances and New Organisms (Act and Regulations)
<b>IARC</b>	International Agency for Research on Cancer
<b>LEL</b>	Lower Explosive Limit
<b>LD<sub>50</sub></b>	Lethal Dose 50% – dose which is fatal to 50% of a test population (usually rats).
<b>LC<sub>50</sub></b>	Lethal Concentration 50% – concentration in air which is fatal to 50% of a test population (usually rats)
<b>NZIoC</b>	New Zealand Inventory of Chemicals
<b>STEL</b>	Short Term Exposure Limit - The maximum airborne concentration of a chemical or biological agent to which a worker may be exposed in any 15 minute period, provided the TWA is not exceeded
<b>STOT RE</b>	System Target Organ Toxicity – Repeated Exposure
<b>STOT SE</b>	System Target Organ Toxicity – Single Exposure
<b>TWA</b>	Time Weighted Average – generally referred to WES averaged over typical work day (usually 8 hours)
<b>UEL</b>	Upper Explosive Limit
<b>UN Number</b>	United Nations Number
<b>WES</b>	Workplace Exposure Standard - The airborne concentration of a biological or chemical agent to which a worker may be exposed during work hours (usually 8 hours, 5 days a week). The WES relates to exposure that has been measured by personal monitoring using procedures that gather air samples in the worker's breathing zone.

#### References

<b>Data</b>	Unless otherwise stated comes from the EPA HSNO chemical classification information database (CCID).
<b>Controls</b>	EPA notices, <a href="http://www.epa.govt.nz">www.epa.govt.nz</a> , Health and Safety at Work (Hazardous Substances) Regulations 2017, <a href="http://www.legislation.govt.nz">www.legislation.govt.nz</a>
<b>WES</b>	The latest NZ Workplace Exposure Standards, published by WorkSafe NZ and available on their web site – <a href="http://www.worksafe.govt.nz">www.worksafe.govt.nz</a> .
<b>Other References:</b>	EU ECHA, ingredients SDS's, ChemIDplus, Suppliers SDS

#### Review

<b>Date</b>	Reason for review
October 2017	Not applicable – new SDS
March 2022	5 yearly update, HSNO to GHS

#### Disclaimer

This SDS was prepared by Datachem LTD and is based on our current state of knowledge, including information obtained from suppliers. The SDS is given in good faith and constitutes a guideline (not a guarantee of safety). The level of risk each substance poses is relevant to its properties (as summarised in the SDS) AND HOW THE SUBSTANCE IS USED. While guidelines are given for personal protective equipment, such precautions must be relevant to the use. The likely GHS classifications for this SDS have been estimated based on general information from the supplier (e.g., hazard, toxicological). This SDS is copyright Datachem and must not be copied, edited or used for other than intended purpose. To contact the SDS author, email [info@datachem.co.nz](mailto:info@datachem.co.nz) or phone: +64 21 1040951.

