

1. Identification of Substance & Company

Product

Product name JM TPO Membrane Cleaner

Product code NA

HSNO approval HSR002528

Approval description Cleaning Products (Flammable) Group Standard 2006

UN number 1307
Proper Shipping Name XYLENES
DG class 3
Packaging group III
Hazchem code 3Y
Uses Cleaner

Company Details

Company Allco Waterproofing Solutions

Address 5 Te Kia Place PO Box 101-903

Albany North Shore City
Auckland 0745
New Zealand New Zealand

 Telephone
 +64 9 448 1185

 Website
 www.allco.co.nz

Emergency Telephone Number: 021 441 329

2. Hazard Identification

Approval

This product has been approved under the Hazardous Substances and New Organisms Act (HSNO, Approval HSR002528, Cleaning Products (Flammable) Group Standard 2006), and is classified as follows:

Classes Hazard Statements

3.1C H226 - Flammable liquid and vapour.

6.1D (oral) H302 - Harmful if swallowed.

6.1E (aspiration) H304 - May be fatal if swallowed and enters airways.

6.1E (dermal) H313 - May be harmful in contact with skin.

6.1D (inhalation)
6.3A
6.4A
6.7B
H332 - Harmful if inhaled.
H315 - Causes skin irritation.
H320 - Causes eye irritation.
H341 - Suspected of causing cancer.

6.8B H361 - Suspected of damaging fertility or the unborn child.

6.9B H371 - May cause damage to organs through prolonged or repeated exposure.

9.1D H402 - Harmful to aquatic life.

SYMBOLS

DANGER



Other Classifications

There are no other classifications that are known to apply.



Precautionary Statements

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.

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.

P280 - Wear protective gloves/protective clothing/eye protection/face protection*.

P308+P313 - IF exposed or concerned: Get medical advice/ attention.

P301+P310 - IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician.

P331 - Do NOT induce vomiting.

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.

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.

P403+P235 - Store in a well-ventilated place. Keep cool.

P405 - Store locked up

Composition / Information on Ingredients

Component	CAS/ Identification	Conc (%)
Xylene	1330-20-7	50-70%
Ethylbenzene	100-41-4	30-50%

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 poisoned, burned 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

Eye contact

Inhaled

Swallowed Do NOT induce vomiting. Give a glass of water to drink. Contact a doctor.If conscious, give plenty of water to drink. 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. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. If eye irritation persists: Get medical

advice/attention.

Skin contact IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse

skin with water/shower. IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTRE or doctor/physician if you feel unwell. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash before re-use. IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position

comfortable for breathing. If experiencing respiratory symptoms: Call a POISON

CENTRE or doctor/physician.

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Advice to Doctor

Treat symptomatically

Firefighting Measures

Fire and explosion hazards: 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.

Suitable extinguishing

substances:

Unsuitable extinguishing

substances:

Protective equipment:

Unknown.

Products of combustion:

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. Self-contained breathing apparatus. Safety boots, non-flammable overalls, gloves, hat

Carbon dioxide, extinguishing powder, foam.

and eye protection.

Hazchem code:

Accidental Release Measures

Containment 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.

Emergency procedures 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).

Use absorbent (soil, sand or other inert material). Rags are not recommended for the Clean-up method

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.

Disposal 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.

Precautions Wear protective equipment to prevent skin and eye contamination and the inhalation of

vapours. Work up wind or increase ventilation.

Storage & Handling

Storage 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 test certificates must be available if storing >500L (containers >5L), 1500L (containers ≤5L), 250L (in use). Containers (and outer packaging) must bear the prescribed labelling, including the Hazchem code, UN number, flammability warning and

name of contents.

Handling 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.

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/m³ for respirable particulates and 10mg/m³ for inhalable particulates when limits have not otherwise been established.

NZ Workplace Ingredient **WES-TWA** WFS-STFI **Exposure Stds Xylene** 50ppm, 217mg/m³ data unavailable 100ppm, 434mg/m³ 125ppm, 543mg/m³ (2016)Ethylbenzene

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^{*} These workplace exposure standards are also Prescribed Exposure Standards (PES) under the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016.



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.

Personal Protective Equipment

Eves



Protect eyes with goggles, safety glasses or full face mask. Avoid wearing contact lenses.

Skin



Avoid repeated or prolonged skin contact. Wear overalls, rubber boots and impervious gloves. Nitrile gloves are recommended. Replace frequently. Gloves should be checked for tears or holes before use. Remove protective clothing and wash exposed areas with soap and water prior to eating, drinking or smoking.

Respiratory



A respirator when airborne concentrations approach the WES (section 8). Use a respirator with an organic vapour cartridge with a dust mist filter. If using a respirator, ensure that the cartridges are correct for the potential air contamination and are in good working order.

WES Additional Information

Not applicable

9. Physical & Chemical Properties

Appearancecolourless liquidOdourmild aromaticpHno data

Vapour pressure 10.65227 hPa (25 °C)

Viscosity no data

Boiling point no data

Volatile materials no data

Freezing / melting point -47°C

Solubility insoluble in water **Specific gravity / density** 0.86g/cm³

Specific gravity / density

Flash point

Danger of explosion

Auto-ignition temperature

0.86g/cm³
27°C

no data

no data

Upper & lower flammable limits LEL: 1.0%, UEL: 7.0%

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 groupsOxidisers, strong acids.Substance Specificnone known

Incompatibility

Hazardous decomposition

products

Oxides of carbon.

Hazardous reactions none known



11. Toxicological Information

Summary

IF SWALLOWED: may cause nausea, diarrhoea, vomiting, gastro-intestinal irritation and chemical pneumonia.

IF IN EYES: may cause serious eye irritation.

IF ON SKIN: may cause skin irritation. Some sensitised individuals may experience allergic skin reactions (e.g dermatitis). IF INHALED: may cause respiratory irritation. Some sensitised individuals may experience allergic response such as asthma. CHRONIC TOXICITY: Solvent vapours may cause reversible damage to kidneys and liver. Prolonged exposure can cause nerve damage (CNS). Xylene may affect the reproductive system. Ethylbenzene is a suspected carcinogen.

Supporting Data

Acute Oral Using LD₅₀'s for ingredients, the calculated LD₅₀ (oral, rat) for the mixture is 300 and 2000

mg/kg. Data considered includes: Xylene 1590 mg/kg (mouse), Ethylbenzene

3500mg/kg (rat).

Dermal Using LD₅₀'s for ingredients, the calculated LD₅₀ (dermal, rat) for the mixture is 2000-

5000mg/kg. Data considered includes: Xylene >1700mg/kg, m-xylene: 3228 mg/kg/day

rabbits).

Inhaled Using LC₅₀'s for ingredients, the calculated LC₅₀ (inhalation, rat) for the mixture is 10and

20mg/L. Data considered includes: Xylene 27.6 mg/L (rat, vapour), Ethylbenzene

9.6mg/L (vapour, rat).

Eye The mixture is considered to be an eye irritant, because some of the ingredients present

are considered eye irritants in more concentrated form.

Skin The mixture is considered to be a skin irritant, because some of the ingredients present

are considered skin irritants in more concentrated form.

Chronic Sensitisation No ingredient present at concentrations > 0.1% is considered a sensitizer.

Mutagenicity
No ingredient present at concentrations > 0.1% is considered a mutagen.

Carcinogenicity
Ethylbenzene is possibly carcinogenic to humans (Group 2B) – IARC and is classed 6.7B

by EPA. Not classed as carcinogenic in EU.

Reproductive / The mixture is considered to be a suspected reproductive or developmental toxicant.

Developmental Xylene, has been shown to cause foetal toxicity in animals at doses which are maternally

toxic. Not expected to impair fertility. Ethylbenzene is classed 6.8B by EPA.

Systemic The mixture is considered to be a suspected target organ toxicant. Xylene: affected

organs: hepatic (liver), Neurological (nervous system), renal (urinary system or kidneys).

Aggravation of None known.

existing conditions

12. Ecological Data

Summary

This mixture may be harmful in the aquatic environment, harmful in the soil environment and towards terrestrial vertebrates.

Supporting Data

Aquatic Using EC₅₀'s for ingredients, the calculated EC₅₀ for the mixture is between 1 and 100

mg/L. Data considered includes: Xylene 8.5mg/l (48hr, Palaemonetes pugio (Crustacea)), 3.3 mg/l (96hr, Oncorhynchus mykiss), 10mg/l (72hr, Skeletonema costatum), Ethylbenzene 4.6mg/L (72hr, Selenastrum capricornutum (Algae)), 4.2mg/L (96hr, Oncorhynchus mykiss (Fish, fresh water)), 2.1mg/L (48hr, Daphnia magna

(Crustacea)).

Bioaccumulation No data
Degradability No data

Soil This mixture is considered harmful towards terrestrial vertebrates, see acute toxicity.

Terrestrial vertebrate No evidence of toxicity towards terrestrial invertebrates.

Terrestrial invertebrate no data

Biocidal No EELs are available for this mixture or ingredients

13. Disposal Considerations

Restrictions There are no product-specific restrictions, however, local council and resource consent

conditions may apply, including requirements of trade waste consents.

Disposal methodDisposal of this product must comply with 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.

Contaminated packaging Rinse containers with water before disposal. Preferably re-cycle container, otherwise

send to landfill or similar.

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14. Transport Information

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

transport.

UN number: 1307 Proper shipping name: XYLENES

Class(es) 3 Packing group: III
Precautions: Flammable liquid Hazchem code: 3Y

15. Regulatory Information

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO). Approval code: HSR002528, Cleaning Products (Flammable) Group Standard 2006.

Specific Workplace Controls (as per HSNO approval referenced to Controls Matrix)

Key workplace requirements are:

SDS To be available within 10 minutes in workplaces storing > any quantity.

Labelling No removal of labels and/or decanting of product into other containers can occur.

Emergency plan Required if > 1000L is stored.

Approved handler Not required.

Tracking This substance is required to be tracked if > not required is present.

Bunding & secondary containment Required if > 1000L is stored.

Signage Required if > 1000L is stored in any one location.

Location test certificate Required if > 500L (containers >5L), 1500L (containers ≤5L), 250L (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 > 500L 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.

16. Other Information

Abbreviations

Approval Code Approval HSR002528, Cleaning Products (Flammable) Group Standard 2006 Controls,

EPA. www.epa.govt.nz

CAS Number Unique Chemical Abstracts Service Registry Number

Ceiling Exposure Value: The maximum airborne concentration of a biological or chemical

agent to which a worker may be exposed at any time.

Controls Matrix

List of default controls linking regulation numbers to Matrix code (e.g. T1, I16).

EC50

Ecotoxic Concentration 50% − concentration in water which is fatal to 50% of a test

population (e.g. daphnia, fish species)

EPA Environmental Protection Authority (New Zealand)

HAZCHEM Code Emergency action code of numbers and letters that provide information to emergency

services, especially fire fighters

HSNO Hazardous Substances and New Organisms (Act and Regulations)

IARC International Agency for Research on Cancer

LEL Lower Explosive Limit

LD₅₀ Lethal Dose 50% – dose which is fatal to 50% of a test population (usually rats).

LC₅₀ Lethal Concentration 50% – concentration in air which is fatal to 50% of a test population

(usually rats)

MSDS (SDS)

Material Safety Data Sheet (or Safety Data Sheet)

PES Prescribed Exposure Standard means a WES or a biological exposure standard that is

prescribed in a regulation, a safe work instrument or an approval under HSNO (including

group standards).

STEL 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

TWA Time Weighted Average – generally referred to WES averaged over typical work day

(usually 8 hours)

UEL Upper Explosive Limit

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UN Number WES

United Nations Number

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

WES 2002

Other References:

Unless otherwise stated comes from the EPA HSNO chemical classification information Data

database (CCID).

EPA Transfer Gazettes Classifications and controls assigned for specific ingredients (consolidated gazette, 2004) **WES 2013**

The NZ Workplace Exposure Standards Effective from 2013, published by WorkSafe NZ

and available on their web site - www.worksafe.govt.nz.

Workplace Exposure Standards published by the Occupational Safety and Health

Service, Department of Labour, January 2002, ISBN 0-477-03660-0. These are the WES

referred to under the Group Standard (HSNO approval) and may constitute a PES.

Suppliers SDS

Review

Date Reason for review October 2017 Not applicable - new SDS

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 HSNO 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 or phone: +64 9 940 30 80.

