

Identification of Substance & Company

Product

1.

Product name HSNO approval Approval description

UN number Proper Shipping Name DG Class Packaging group Hazchem code Uses

Company Details

Company Address

Telephone Fax Website Cowslips Liquid HSR100757 Veterinary Medicines (Limited Pack Size, Finished Dose) Group Standard 2017 1247 METHYL METHACRYLATE MONOMER, STABILIZED 3 II 3YE Adhesive in application of hoof care products

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NZ Emergency Telephone Number: 0800 POISON (0800 764 766) Poisons Information Centre – Australia: 13 11 26

2. Hazard Identification

Approval

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO, Approval HSR100757, Veterinary Medicines (Limited Pack Size, Finished Dose) Group Standard 2017). The substance has been classified as hazardous according to the criteria in the Hazardous substances (Minimum Degrees of Hazard) Notice 2017.

Classes	Hazard Statements
3.1B	H225 - Highly flammable liquid and vapour.
6.1D (inhalation)	H332 - Harmful if inhaled.
6.1E (respiratory irritation)	H335 - May cause respiratory irritation.
6.1E (oral)	H303 - May be harmful if swallowed
6.3B	H316 - Causes mild skin irritation.
6.4A	H319 - Causes serious eye irritation.
6.5B	H317 - May cause an allergic skin reaction.
6.9B	H373 - May cause damage to organs through prolonged or repeated exposure.
9.1D	H402 - Harmful to aquatic life.
9.1D	H402 - Harmful to aquatic life.

SYMBOLS





Australian GHS Classification GHS classes Ha

Hazard Statements

Flammable liquid cat 2	H225 - Highly flammable liquid and vapour.
Acute toxicity cat 4	H332 - Harmful if inhaled.
STOT SE	H335 - May cause respiratory irritation.
Eye irritation cat 2	H319 - Causes serious eye irritation.
Skin sensitization cat 1	H317 - May cause an allergic skin reaction.
STOT RE cat 2	H373 - May cause damage to organs through prolonged or repeated exposure.
Acute aquatic cat 4	H402 - Harmful to aquatic life.
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Polymerisation with heat evolution may occur in the presence of radical forming substances (e.g. peroxides), reducing substances and/or heavy metal ions.

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.
- 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 fume/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.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/eye/face protection.
- 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.

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.
- P302+P352 IF ON SKIN: Wash with plenty of soap and water.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P363 Wash contaminated clothing before reuse.
- P314 Get medical advice/attention if you feel unwell.
- P309+P311 IF exposed or if you feel unwell: Call a POISON CENTRE or doctor/physician.
- P403+P235 Store in a well-ventilated place. Keep cool.
- P405 Store locked up.

3. Composition / Information on Ingredients

Component	CAS/ Identification	Conc (%)
methyl methacrylate	80-62-6	60-100%
Hydroxyethyl methacrylate-2-	868-77-9	15-40%
Dimethyl-p-toluidine	99-97-8	1-5%

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). IF exposed or if you feel unwell: Call a POISON CENTRE or doctor/physician.

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



Exposure	
Swallowed	Do NOT induce vomiting. Give a glass of water to drink. Get medical advice/attention if
Eye contact	you feel unwell. 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: Wash with plenty of soap and water. Remove contaminated clothing. If skir irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing
	before reuse.
nhaled	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	
5. Firefighting Measures	
Fire and explosion hazards:	Vapours may form an explosive mixture in air which can be ignited by many sources suc as pilot lights, open flames, electrical motors, switches and static electricity.
Suitable extinguishing	Carbon dioxide, extinguishing powder or water jet. Fight larger fires with water jet or
substances:	alcohol resistant foam.
Unsuitable extinguishing substances:	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.
Protective equipment:	Self-contained breathing apparatus. Safety boots, non-flammable overalls, gloves, hat and eye protection.
Hazchem code:	3YE
6. Accidental Release M	easures
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).
Clean-up method	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.
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.
7. Storage & Handling	
Storage	Avoid storage of harmful substances with food. Store out of reach of children.
5 -	Containers should be kept closed in order to minimise contamination. Store below 30°C
	Keep from extreme heat and open flames. Fill the container by approximately 80% only
	as oxygen (air) is required for stabilisation.
	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,
Handling	including the Hazchem code, UN number, flammability warning and name of contents. Keep exposure to a minimum, and minimise the quantities kept in work areas. Use only
nanaling	outdoors or in a well-ventilated area. Take precautionary measures against static
	discharges. See section 8 with regard to personal protective equipment requirements.
	Avoid skin and eye contact and inhalation of vapour, mist or aerosols.
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Exposure Controls / Personal Protective Equipment

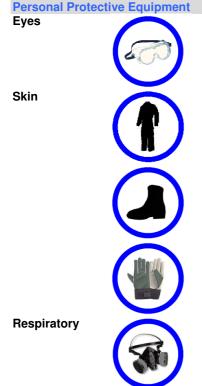
Workplace Exposure Standards

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	WES-STEL
Exposure Stds	methyl methacrylate	50ppm, 208mg/m ³	100ppm, 416mg/m ³
Australian	Ingredient	ES-TWA	ES-STEL
Exposure Stds	methyl methacrylate	50ppm, 208mg/m ³	100ppm, 416mg/m ³

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.



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.

Avoid repeated or prolonged skin contact. Wear overalls, rubber boots and impervious gloves. Rubber 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. Remove protective clothing and wash exposed areas with soap and water prior to eating, drinking or smoking. Wash hands after handling.

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

Physical & Chemical Properties

Appearance
Odour
рН
Vapour pressure
Viscosity
Boiling point
Volatile materials
Freezing / melting point
Solubility
Specific gravity / density
Flash point
Danger of explosion
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July 2019

colourless liquid strong odour no data N NA NA no data <-25°C not specified not specified +8°C no data



Auto-ignition temperatureno dataUpper & lower flammable limitsno dataCorrosivenessnon corrosive

10. Stability & Reactivity	
Stability	Stable under normal conditions. Product may react with acids, azo-, diazo-, hydrazines, alkalis and oxidising materials.
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	strong alkalis, strong acids, peroxides, strong oxidising agents, azo-, diazo-, hydrazine- compounds.
Substance Specific Incompatibility	none known
Hazardous decomposition products	Carbon oxides. Nitrogen oxides.
Hazardous reactions	Polymerisation with heat evolution may occur in the presence of radical forming substances (eg peroxides), reducing substances, and/or heavy metal ions.

11. Toxicological Information

Summary

IF SWALLOWED: may be harmful, with gastrointestinal irritation and upset stomach.

IF IN EYES: irritation may occur.

IF ON SKIN: may be irritating to the skin. Sensitised individuals may experience an allergic skin reaction such as dermatitis. Repeated exposure may cause skin dryness and cracking.

IF INHALED: vapours may be irritating to the respiratory system. Symptoms may include headaches, dizziness and drowsiness.

Supportin	ng Data	
Acute	Oral	Using LD ₅₀ 's for ingredients, the calculated LD ₅₀ (oral, rat) for the mixture is between 2000 and 5,000 mg/kg. Data considered includes: methyl methacrylate 4700 mg/kg (dog), Hydroxyethyl methacrylate-2 3275 mg/kg (mouse), Dimethyl-p-toluidine 1650mg/kg (rat).
	Dermal	No evidence of dermal toxicity.
	Inhaled	Using LC ₅₀ 's for ingredients, the calculated LC ₅₀ (inhalation, rat) for the mixture is between 15.375 mg/l – 29mg/L. Data considered includes: methyl methacrylate 15.375 mg/l - 29 mg/l (4hr, rat, vapour)
	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	The mixture is considered to be a contact sensitizer, because methyl methacrylate is known to be a contact sensitizer.
	Mutagenicity	No ingredient present at concentrations > 0.1% is considered a mutagen.
	Carcinogenicity	No ingredient present at concentrations > 0.1% is considered a carcinogen.
	Reproductive /	No ingredient present at concentrations > 0.1% is considered a reproductive or
	Developmental	developmental toxicant or have any effects on or via lactation.
	Systemic	The mixture is considered to be a suspected target organ toxicant, because methyl methacrylate is suspected to be a target organ toxicant.
	Aggravation of existing conditions	None known.

12. Ecological Data

Summary

 This mixture may be harmful towards aquatic organisms. In all cases prevent run-off to drains, sewers and waterways.

 Supporting Data

 Aquatic
 Using EC₅₀'s for ingredients, the calculated EC₅₀ for the mixture is between 1 and 100 mg/L. Data considered includes: methyl methacrylate 191 mg/l (96hr, Lepomis macrochirus); 69 mg/l (48hr, Daphnia magna); 170 mg/l (96hr, Selenastrum capricornutum), Dimethyl-p-toluidine 52mg/L (96hr, fish).

 Bioaccumulation
 No data

This mixture is not considered toxic towards terrestrial vertebrates.

No evidence of toxicity towards terrestrial invertebrates.

No evidence of soil toxicity.

Degradability Soil Terrestrial vertebrate Terrestrial invertebrate

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Product Name: Cowslips Liquid

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INTERNA	TIONAL LTD				
Biocidal Environmental effe	ect levels	no data No EELs a	are available for this mixture or in	gredients	
13. Disposal	Considerations				
Restrictions				nowever, local council and resource consent	
Disposal method		conditions may apply, including requirements of trade waste consents. 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. Disposal of contaminated packaging must comply with the Hazardous Substances			
		(Disposal) containing requireme	Notice 2017 clause 12. Ensure t any substance and is disposed	hat the package is rendered incapable of n a manner that is consistent with the and the material of the package. If possible	
14. Transport	Information				
	to NZS 5433 (1	ransport o	f Hazardous Substances on Lanc). Considered a dangerous good for	
transport. UN number:	1247		Proper shipping name:	METHYL METHACRYLATE MONOMER, STABILIZED	
Class(es) Precautions:	3 Flammable I	liquid	Packing group: Hazchem code:	II 3YE	
HSR100757, Veteri All ingredients appe	nary Medicines ar in the NZIoC.	(Limited Pa	ck Size, Finished Dose) Group S		
Key workplace rec					
SDS		To b	e available within 10 minutes in v	vorkplaces storing any quantity.	
Inventory		An ii	nventory of all hazardous substar	nces must be prepared and maintained.	
Packaging		that	have been decanted, transferred	appropriately <i>packaged including substance</i> or manufactured for own use or have been	
Labelling		supp Mus	t comply with the Hazardous Sub	stances (Labelling) Notice 2017	
Emergency plan			uired if > 1000L is stored.		
Certified handler			required.		
Tracking			required.		
Bunding & second	ary containment	Req	uired if > 1000L is stored.		
Signage		Req	uired if > 250L is <i>stored.</i>		
Location complian	ce certificate	Req	uired if > 100L (containers >5L).	250L (containers ≤5L), 50L (in use) is stored	
Flammable zone		0008	sionally), 1L (in use), stored in a	containers), 25L (decanting), 5L (open ny one location is stored.	
Fire extinguisher	orkolace require		250L present. / if only this particular substance.	is present. The complete set of controls for	
			tal quantities of other substances		
Other Legislation					
	2015 and the He	alth and Sa	afety at Work (General Risk and	ment Act and Regulations, the Health and Norkplace Management) Regulations 2016,	
Australia					
Standard for the	Uniform Sched	uling No	t scheduled		
of Drugs and Poi	sons (SUSDP)	•	t listed		

Standard for the Uniform Scheduling	Not scheduled
of Drugs and Poisons (SUSDP)	
Applicable prohibitions and	Not listed
notifications/licensing requirements	
Agricultural and Veterinary	Not listed
Chemicals Act	
Listing in the Australian Inventory of	Methyl methacylate - IMAP - Tier II - Human Health
Chemical Substances (AICS)	
Additional information	NA

Product Name: Cowslips Liquid



16. Other Information	
Abbreviations	
Approval Code	Approval HSR100757, Veterinary Medicines (Limited Pack Size, Finished Dose) Group
••	Standard 2017 Controls, EPA. www.epa.govt.nz
AICS	Australian Inventory of Chemical Substances
CAS Number	Unique Chemical Abstracts Service Registry Number
EC ₅₀	Ecotoxic Concentration 50% – concentration in water which is fatal to 50% of a test
	population (e.g. daphnia, fish species)
ES	Exposure Standard - The airborne concentration of a biological or chemical agent to
	which a worker may be exposed in a work day.
EPA GHS	Environmental Protection Authority (New Zealand)
	Globally Harmonised System of Classification and Labelling of Chemicals Emergency action code of numbers and letters that provide information to emergency
HAZCHEM Code	services, especially fire fighters
HSNO	Hazardous Substances and New Organisms (Act and Regulations)
IARC	International Agency for Research on Cancer
LEL/UEL	Lower Explosive Limit/ Upper Explosive Limit
	Lethal Dose 50% – dose which is fatal to 50% of a test population (usually rats).
LC ₅₀	Lethal Concentration 50% – concentration in air which is fatal to 50% of a test population
2030	(usually rats)
MSDS (SDS)	Material Safety Data Sheet (or Safety Data Sheet)
NICNAS	National Industrial Chemicals Notification and Assessment Scheme
NZIOC	New Zealand Inventory of Chemicals
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)
UN Number	United Nations Number
WES	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	
Data	Unless otherwise stated comes from the EPA HSNO chemical classification information
	database (CCID).
Controls	EPA notices, www.epa.govt.nz, Health and Safety at Work (Hazardous Substances)
	Regulations 2017, www.legislation.govt.nz
WES	The latest NZ Workplace Exposure Standards, published by WorkSafe NZ and available
50	on their web site – www.worksafe.govt.nz.
ES Other Deferences	Workplace Exposure standards for airborne contaminants – Safework Australia.
Other References:	Suppliers SDS, EU ECHA, ingredients SDS's, ChemIDplus
Deview	
Review	Decem for review
Date	Reason for review

Date July 2019 Reason for review 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.

