Toluene Cleaning Agent



1.

Safety Data Sheet

Identification of Substance & Company

Product	
Product name Other names Product code HSNO approval Approval description UN number DG class Proper Shipping Name Packaging group Hazchem code Uses	Toluene Cleaning Agent Toluene MCD030 HSR001227 Surface coatings and Colourants (Flammable) Group Standard 2017 1294 3 TOLUENE II 3YE Solvent
Company Details	
Company Physical Address	Viking Roofspec80 Alexander CrescentPO Box 14 451OtaraPanmureAucklandAuckland 1741New ZealandNew Zealand
Telephone Fax Website	0800 729 799 0800 729 788 www.vikingroofspec.co.nz
Em	gency Telephone Number: 0800 764 766
	2. Hazard Identification
Approval This product is an approved su	ance under the Hazardous Substances and New Organisms Act (HSNO, Approval

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO, Approval HSR001227, Surface coatings and Colourants (Flammable) 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

6.8B 6.9B	 H225 - Highly flammable liquid and vapour. H302 - Harmful if swallowed. H332 - Harmful if inhaled. H315 - Causes skin irritation. H320 - Causes eye irritation. H361 - Suspected of damaging fertility or the unborn child. H371 - May cause damage to organs through prolonged or repeated exposure.
9.1D	H402 - Harmful to aquatic life.
9.3C	H433 - Harmful to terrestrial vertebrates.

SYMBOLS



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/eye/face protection.

P301+P312 - IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell.

P330 - Rinse mouth.

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.

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

3.

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

P405 - Store locked up.

Composition / Information on Ingredients

Component	CAS/ Identification	Conc (%)	
Toluene	108-88-3	100%	

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

4.

First Aid

General Information

and ad first aid

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 concerned: Get medical advice/ attention. water is required. Associable evenuesh is required

facilities	Ready access to running water is required. Accessible eyewast is required.
Exposure	
Swallowed	IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician. Do NOT induce vomiting.
Eye contact	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. If skin irritation occurs: Get medical advice/ attention. Take off contaminated clothing and wash before re-use.
Inhaled	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 such as pilot lights, open flames, electrical motors, switches and static electricity. Suitable extinguishing Carbon dioxide, extinguishing powder, foam. substances: Unsuitable extinguishing Unknown. substances: Products of combustion: Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Water.

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Product Name: Toluene Cleaning Agent



Protective equipment: Hazchem code:	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 and eye protection. 3YE	
	6. Accidental Release Measures	
Containment	If greater than 1000L <i>is stored,</i> 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 Precautions	Mop up and collect recoverable material into labelled containers for recycling or salvag Recycle containers wherever possible. This material may be suitable for approved landfill. Dispose of only in accord with all regulations. 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. 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 >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.	
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.	
8.	Exposure Controls / Personal Protective Equipment	

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

NZ Workplace	Ingredient	WES-TWA*	WES-STEL data unavailable
Exposure Stds	toluene	50ppm, 188 mg/m ³ (skin)	

* 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

Eyes



Avoid contact with eyes. Use safety glasses and or chemical splash goggles if splashes are possible.



Skin



Protective gloves are recommended. Nitrile, teflon or PVA gloves are recommended. Replace frequently. Gloves should be checked for tears or holes before use.

A respirator when airborne concentrations approach the WES (section 8). 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.

WES Additional Information Not applicable

9. **Physical & Chemical Properties**

Appearance clear colourless liquid Odour pН Vapour pressure Viscosity **Boiling point** Volatile materials Freezing / melting point Solubility Specific gravity / density Flash point Danger of explosion Auto-ignition temperature Upper & lower flammable limits Corrosiveness

characteristic odour no data 3.5kPa @20°C no data 110°C 100% no data 0.515kg/m3 in water 0.872g/ml 4°C (Toluene) no data no data LEL: 1.2 Vol%, UEL: 8.0 Vol% not corrosive

10. Stability & Reactivity

Stability Conditions to be avoided	Stable Flammable substance. Keep away from sources of ignition at all times. Containers should be kept closed in order to avoid contamination.
Incompatible groups Substance Specific Incompatibility	Oxidisers, strong acids, bases. 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.

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 nonallergic dermatitis. This product can be absorbed through the skin.

INHALED: high concentrations of vapours may cause dizziness and drowsiness.

CHRONIC TOXICITY: Toluene vapours may cause reversible damage to kidneys and liver. Prolonged exposure can cause nerve damage (CNS). Toluene may cause damage to foetus possible fetotoxicity, paternal effects. Toluene may cause ototoxicity.



Supporting Data		
Acute Oral Dermal Inhaled Eye		LD ₅₀ (oral, rat) for toluene 636 mg/kg (rat). No evidence of dermal toxicity. LC ₅₀ (inhalation, rat) toluene 12.5 - 28.8 mg/l (vapour, rat). Toluene is considered an eye irritant. Toluene is a skin irritant.
Chronic	Sensitisation Mutagenicity Carcinogenicity Reproductive / Developmental	No ingredient present at concentrations > 0.1% is considered a sensitizer. No ingredient present at concentrations > 0.1% is considered a mutagen. No ingredient present at concentrations > 0.1% is considered a carcinogen. Toluene is suspected to be a reproductive or developmental toxicant.
	Systemic Aggravation of existing conditions	Toluene is considered a suspected systemic toxicant by inhalation. None known.

12. Ecological Data

Summary

This mixture may be harmful towards aquatic organisms and terrestrial vertebrates.

Supporting Data		
Aquatic	EC₅₀'s for toluene 5.8 mg/l (96hr, Oncorhynchus mykiss), 11.5 mg/l (48hr, Daphnia magna), 12.5mg/L (72hr, Algal).	
Bioaccumulation	No data	
Degradability	No data	
Soil	No evidence of soil toxicity.	
Terrestrial vertebrate	The mixture is considered harmful to terrestrial vertebrates. See acute toxicity above.	
Terrestrial invertebrate	No evidence of toxicity towards terrestrial invertebrates.	
Biocidal	no data	
	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 method	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

reuse or recycle 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

 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.

UN number:	1294	Proper shipping name:	TOLUENE	
Class(es)	3	Packing group:	II	
Precautions:	Flammable liquid	Hazchem code:	3YE	





Regulatory Information

To be evaluable within 10 minutes in workplaces staving only superity.

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO). Approval code: HSR001227, Surface coatings and Colourants (Flammable) Group Standard 2017. All ingredients appear on the NZIoC.

15.

Specific Controls

Key workplace requirements are: 000

505	To be available within To 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.
Bunding & secondary containment	Required if > 1000L is stored.
Signage	Required if > 250L is stored in any one location.
Location compliance certificate	Required if > 100L (containers >5L), 250L (containers ≤5L), 50L (in use) is stored.
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.

16. Other Information		
Abbreviations		
Approval Code	Approval HSR001227, Surface coatings and Colourants (Flammable) Group Standard 2017 Controls, EPA. www.epa.govt.nz	
CAS Number	Unique Chemical Abstracts Service Registry Number	
Ceiling	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).	
EC ₅₀	Ecotoxic Concentration 50% – concentration in water which is fatal to 50% of a test	
EPA	population (e.g. daphnia, fish species)	
HAZCHEM Code	Environmental Protection Authority (New Zealand) 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/UEL	Lower Explosive Limit/ Upper Explosive Limit	
LD ₅₀	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 (usually rats)	
MSDS (SDS)	Material Safety Data Sheet (or Safety Data Sheet)	
NZIOC	New Zealand Inventory of Chemicals	
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)	
UN 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	
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References	using procedures that gather air samples in the worker's breathing zone.
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 on their web site – www.worksafe.govt.nz.
Other References:	Suppliers SDS, ChemIDplus
Review	
Date July 2018	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). Full formulation details were not available. 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.

