

BMA Solvent 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

Company Details

Company Physical Address

Telephone Fax Website

BMA Solvent Not assigned SES225 HSR002650 Solvents (Flammable]) Group Standard 2020 1993 3 FLAMMABLE LIQUID, n.o.s. (contains toluene, acetone, solvent naphta) II 3YE Solvent for roofing systems

Viking Roofspec 80 Alexander Crescent Otara Auckland New Zealand 0800 729 799 0800 729 788 www.vikingroofspec.co.nz

PO Box 14 451 Panmure Auckland 1741 New Zealand

Emergency Telephone Number: 0800 764 766

Hazard Identification

NZ Approval

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO, Approval HSR002650, Solvents (Flammable]) Group Standard 2020). The substance has been classified as hazardous according to the criteria in the Hazardous Substances (Hazard Classification) Notice 2020.

GHS 7 Classes

Flammable liquid category 2 Acute toxicity category 4 (oral) Aspiration category 1 Skin irritant category 2 Eye irritant category 2 Reproductive toxicity category 2 STOT* single exposure category 3 STOT* repeated exposure category 2 Chronic aquatic category 2

*STOT - System target organ toxicity

Hazard Statements

2.

- 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.
- H336 May cause drowsiness or dizziness.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H411 Toxic to aquatic life with long lasting effects.



Other Classifications

There are no other classifications that are known to apply.

SYMBOLS



Precautionary Statements

Prevention	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 dust/fume/gas/mist/vapours/spray.
	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.
Response	P101 - If medical advice is needed, have product container or label at hand.
	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.
	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.
	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.
Storage	P403+P235 - Store in a well-ventilated place. Keep cool.
Storage	P405 - Store locked up
Disposal	P501 - Dispose of contents/container in accordance with local/regional/national/international regulation.
ысроза	
	3. Composition / Information on Ingredients

Composition / Information on Ingredients

Component	CAS/ Identification	Conc (%)
toluene	108-88-3	10-30%
acetone	67-64-1	10-30%
solvent naphtha (petroleum), light aliphatic	64742-89-8	30-60%
ingredients not contributing to HSNO classes	mixture	balance

exact ratio of components may vary. I race 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 recommended. Accessible eyewash is recommended
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 substances:	Carbon dioxide, extinguishing powder, 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: Hazchem code:	Self-contained breathing apparatus. Safety boots, non-flammable overalls, gloves, hat and eye protection. 3YE		
	6. 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).		
Clean-up method Disposal	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. Mop up and collect recoverable material into labelled containers for recycling or salvage.		
Precautions	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 compliance certificates must be available if storing >100L		
Handling	(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. 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/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	toluene	20ppm, 75 mg/m ³ (skin, oto, bio)	100ppm, 377 mg/m ³ (skin, oto, bio)
	acetone	500ppm, 1185mg/m ³ (bio)	1000ppm, 2375 mg/m ³ (bio)



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

```
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, teflon or PVA 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.
Respiratory
                                    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	Liquid
Odour	no data
Odour Threshold	no data
pH	no data
Freezing/melting point	no data
Boiling Point	110-111°C (Toluene)
Flashpoint	4°C (Toluene)
Flammability	no data
Upper & lower flammable limits	no data
Vapour pressure	no data
Vapour density	no data
Specific gravity/density	no data
Solubility	no data
Partition coefficient	no data
Auto-ignition temperature	no data
Decomposition temperature	no data
Viscosity	no data
Particle Characteristics	no data



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 Oxidisers, strong acids, bases. Substance Specific none known Incompatibility		
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	Using LD_{50} 's for ingredients, the calculated LD_{50} (oral, rat) for the mixture is 300 and 2000 mg/kg. Data considered includes: toluene 636 mg/kg (rat), acetone 3000 mg/kg (mouse). Solvent naphtha is an aspiration hazard.
	Aspiration	This mixture is considered an aspiration hazard.
	Dermal	No evidence of acute dermal toxicity.
	Inhaled	Using LC ₅₀ 's for ingredients, the calculated LC ₅₀ (inhalation, rat) for the mixture is 20mg/L. Data considered includes: toluene 12.5 - 28.8 mg/l (vapour, rat).
	Еуе	The mixture is considered to be an eye irritant, because some of the ingredients (toluene, acetone, hexane) present are considered eye irritants in more concentrated form.
	Skin	The mixture is considered to be a skin irritant, because some of the ingredients (Toluene, acetone) 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	No ingredient present at concentrations > 0.1% is considered a carcinogen.
	Reproductive /	The mixture is considered to be a suspected reproductive or developmental toxicant,
	Developmental	because at least one of the ingredients (toluene) present in greater than 0.1% is suspected to be a reproductive or developmental toxicant.
	Systemic	The mixture is considered to be a suspected target organ toxicant (toluene, hexane), because at least one of the ingredients present in greater than 1% is suspected to be a target organ toxicant. This mixture may cause dizziness and drowsiness.
	Aggravation of existing conditions	None known.



12. Ecological Data

Summary

This mixture may be toxic towards aquatic organisms with long lasting effects.

This mixture may be	toxic towards aquatic orga	anisms with long lasting effects.	
Supporting Data			
Aquatic Bioaccumulation Degradability Soil Terrestrial vertebra Terrestrial inverteb Biocidal	10 mg/L. I mg/l (48hr EPA. No data No data No eviden te The mixtu	Data considered includes: toluene 5 ; Daphnia magna), 12.5mg/L (72hr, ce of soil toxicity.	C ₅₀ for the mixture is between 1 mg/L and 6.8 mg/l (96hr, Oncorhynchus mykiss), 11.5 , Algal), solvent naphtha is classed 9.1B by al vertebrates. See acute toxicity above. ertebrates.
	13	. Disposal Considerations	3
Restrictions			wever, local council and resource consent
Disposal method	conditions	may apply, including requirements	
Contaminated pack	be sought rendered r xaging Disposal o (Disposal) containing requireme	from the Regional Authority. The su non-hazardous before discharge to of contaminated packaging must con Notice 2017 clause 12. Ensure tha any substance and is disposed in a	Management Act for which approval should ubstance must be treated and therefore the environment. mply with the Hazardous Substances it the package is rendered incapable of a manner that is consistent with the nd the material of the package. If possible
	1	4. Transport Information	
	1993 3 Flammable liquid,		Considered a dangerous good for transport. FLAMMABLE LIQUID, n.o.s. (contains toluene, acetone, solvent naphta) II 3YE
IMDG	Marine pollutant.		
UN number:	1993	Proper shipping name:	FLAMMABLE LIQUID, n.o.s. (contains toluene, acetone, solvent naphta)
Class(es) Precautions:	3 Flammable liquid, Marine pollutant.	Packing group: EmS	II F-E, S-E
ΙΑΤΑ			
UN number:	1993	Proper shipping name:	FLAMMABLE LIQUID, n.o.s. (contains toluene, acetone, solvent naphta)
Class(es) Precautions:	3 Flammable liquid,	Packing group:	II



15. Regulatory Information

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO). Approval code: HSR002650, Solvents (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.
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 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.

16. Other Information

Abbreviations	
Approval Code CAS Number EC₅₀	Approval HSR002650, Solvents (Flammable]) Group Standard 2020 Controls, EPA. www.epa.govt.nz Unique Chemical Abstracts Service Registry Number Ecotoxic Concentration 50% – concentration in water which is fatal to 50% of a test
EPA GHS	population (e.g. daphnia, fish species) Environmental Protection Authority (New Zealand) Globally Harmonised System of Classification and Labelling of Chemicals, 7 th revised edition, 2017, published by the United Nations.
HAZCHEM Code	Emergency action code of numbers and letters that provide information to emergency services, especially fire fighters
HSNO IARC LEL	Hazardous Substances and New Organisms (Act and Regulations) International Agency for Research on Cancer Lower Explosive Limit
LD50 LC50	Lethal Dose 50% – dose which is fatal to 50% of a test population (usually rats). Lethal Concentration 50% – concentration in air which is fatal to 50% of a test population (usually rats)
NZIOC STEL	New Zealand Inventory of Chemicals 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
STOT RE STOT SE TWA	System Target Organ Toxicity – Repeated Exposure System Target Organ Toxicity – Single Exposure Time Weighted Average – generally referred to WES averaged over typical work day (usually 8 hours)
UEL	Upper Explosive Limit
Page 7 of 8 May 2023	Product Name: BMA Solvent



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	
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, EU ECHA, ingredients SDS's, ChemIDplus
Review	
Date July 2018 May 2023	Reason for review Not applicable – new SDS 5 yearly update, HSNO to GHS 7

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 7 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 21 1040951.

