

1. Identification of Substance & Company

Product

Product nameBMA SolventOther namesNot assignedProduct codeSES225HSNO approvalHSR002650

Approval description Solvents (Flammable]) Group Standard 2017

UN number 1993 DG class 3

Proper Shipping Name FLAMMABLE LIQUID, n.o.s. (contains toluene, acetone, solvent naphta)

Packaging group || Hazchem code | 3YE

Uses Solvent for roofing systems

Company Details

Company Viking Roofspec

Physical Address80 Alexander CrescentPO Box 14 451OtaraPanmureAucklandAuckland 1741New ZealandNew Zealand

 Telephone
 0800 729 799

 Fax
 0800 729 788

Website www.vikingroofspec.co.nz

Emergency Telephone Number: 0800 764 766

2. Hazard Identification

Approval

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

3.1B H225 - Highly flammable liquid and vapour.

6.1D (oral) H302 - Harmful if swallowed.

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

6.3A6.4AH315 - Causes skin irritation.H319 - Causes serious eye irritation.

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

6.9B (narcotic) H336 - May cause drowsiness or dizziness.

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

9.1B H411 - Toxic to aquatic life with long lasting effects.

9.3C H433 - Harmful to terrestrial vertebrates.

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.





Taking care of detail

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.

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.

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

P405 - Store locked up

P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

3. 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

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 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.					
A L L L D L						

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:

Unsuitable extinguishing

substances:

hing 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.

Carbon dioxide, extinguishing powder, foam.

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

and eye protection.

Hazchem code: 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 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.

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.

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

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 toluene acetone S00ppm, 188 mg/m³ (skin) data unavailable 1000ppm, 2375 mg/m³

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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

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.

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

Physical & Chemical Properties 9.

Appearance Liquid Odour no data Ha no data Vapour pressure no data **Viscosity** no data

Boiling point 110-111°C (Toluene)

Volatile materials no data Freezing / melting point no data Solubility no data Specific gravity / density no data Flash point 4°C (Toluene) **Danger of explosion** no data **Auto-ignition temperature** no data **Upper & lower flammable limits** no data Corrosiveness no data

10. Stability & Reactivity

Stable Stability

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. none known

Substance Specific Incompatibility

Hazardous reactions

none known

Hazardous decomposition

products

Oxides of carbon

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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 non-allergic 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.

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Dermal

Skin

Sensitisation

Acute Oral Using LD₅₀'s for ingredients, the calculated LD₅₀ (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. No evidence of acute dermal toxicity.

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

20mg/L. Data considered includes: toluene 12.5 - 28.8 mg/l (vapour, rat).

Eye 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.

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

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

Reproductive / The mixture is considered to be a suspected reproductive or developmental toxicant, 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. None known.

Aggravation of existing conditions

12. Ecological Data

Summary

Chronic

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

Supporting Data

Aquatic Using EC₅₀'s for ingredients, the calculated EC₅₀ for the mixture is between 1 mg/L and

10 mg/L. Data considered includes: toluene 5.8 mg/l (96hr, Oncorhynchus mykiss), 11.5 mg/l (48hr, Daphnia magna), 12.5mg/L (72hr, Algal), solvent naphtha is classed 9.1B by

EPA.

Bioaccumulation No data **Degradability** No data

Soil No evidence of soil toxicity.

Terrestrial vertebrateThe 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 methodDisposal 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.

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

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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.

Transport Information 14

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: 1993 Proper shipping name: FLAMMABLE LIQUID, n.o.s.

(contains toluene, acetone, solvent

naphta)

Class(es) Packing group: Ш

Precautions: Flammable liquid, Hazchem code: 3YE

Marine pollutant.

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 2017. 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.

All hazardous substances should be appropriately packaged including Packaging

substances that have been decanted, transferred or manufactured for own

use or have been supplied

Must comply with the Hazardous Substances (Labelling) Notice 2017. Labelling

Emergency plan Required if > 1000L is stored.

Certified handler Not required. Tracking Not required.

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

Signage Required if > 250L is stored in any one location.

Required if > 100L (containers >5L), 250L (containers ≤5L), 50L (in use) is Location compliance certificate

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.

If > 250L present. Fire extinguisher

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 HSR002650, Solvents (Flammable]) Group Standard 2017 Controls, EPA. **Approval Code** www.epa.govt.nz

CAS Number Unique Chemical Abstracts Service Registry Number

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

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)

Environmental Protection Authority (New Zealand)

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

services, especially fire fighters

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BMA Solvent Safety Data Sheet

Product Name: BMA Solvent

HSNO Hazardous Substances and New Organisms (Act and Regulations)

IARC International Agency for Research on Cancer
LEL/UEL Lower Explosive Limit/ Upper Explosive Limit

LD₅₀ 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)

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

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

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

DateReason for reviewJuly 2018Not 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.

