Bomacaine



1. IDENTIFICATION OF SUBSTANCE & COMPANY

Product information

Product name
Other names
ACVM approval
HSNO approval
HSR002330

Approval description Liquid containing 1.5 - 2.5% lignocaine

UN number NA
Proper Shipping Name NA
Packaging group NA

Hazchem code 1T (recommended)

Uses For animal treatment only. For epidural, nerve block and infiltration local anaesthesia in

horses, cattle, deer, sheep, goats, pigs and cats.

Company Details

Company Bayer New Zealand Ltd

Address 3 Argus Place, Hillcrest,

Auckland 0627 New Zealand. 0800 652 488

 Telephone
 0800 652 488

 Facsimile
 0800 229 838

Emergency Telephone Number: 0800 734 607

2. HAZARD IDENTIFICATION

Approval

This product has been approved under the Hazardous Substances and New Organisms Act (HSNO, Approval HSR002330, Liquid containing 1.5 - 2.5% lignocaine), and is classified as follows:

Classes Hazard Statements

6.3B Causes mild skin irritation.

6.6B Suspected of causing genetic defects

6.7B Suspected of causing cancer 6.9B May cause damage to organs

SYMBOLS

WARNING



Other Classifications

ACVM registration number: A006498

There are no other Classifications that are known to apply.

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Precautionary Statements

Read label before use.

Store locked up.

Obtain special instructions before use.

Use personal protective equipment as required.

Do not handle until all safety precautions have been read and understood.

Do not breathe fumes/vapour.

Wash hands thoroughly after handling.

Do not eat, drink or smoke when using this product.

Further precautionary statements can be found in Section 4 – First Aid.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS/ Identification	Concentration
Lignocaine	6108-05-0	20g/L
Ingredients not contributing to HSNO classification	NA	<1%
Water	7732-18-5	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

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 medical advice is needed, have product container or label at hand. IF exposed or concerned: Get medical advice.

Recommended first

Ready access to running water is required. Accessible eyewash is required.

aid facilities

Exposure

Swallowed Do NOT induce vomiting. Give a glass of water to drink. Contact a doctor.

Eye contact If product gets in eyes, wash material from them with running water for several minutes.

If symptoms persist, seek medical advice.

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 Generally, inhalation of fumes is unlikely to result in adverse health effects. If coughing,

dizziness or shortness of breath is experienced, remove the patient to fresh air immediately. If patient is unconscious, place in the recovery position (on the side) for

transport and contact a doctor.

Advice to Doctor

Treat symptomatically

5. FIREFIGHTING MEASURES

Fire and explosion

There are no specific risks for fire/explosion for this chemical. It is non-flammable.

hazards:

Suitable extinguishing

Carbon dioxide, extinguishing powder, foam, fog sprays, water jets.

substances: Unsuitable

suitable Unknown.

extinguishing substances: 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

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spaces, forming potentially explosive mixtures.

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

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and eye protection. Hazchem code: 1T (recommended)

6. **ACCIDENTAL RELEASE MEASURES**

Containment If greater than 10000L 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 stormwater.

Emergency In the event of spillage alert the fire brigade to location and give brief description of procedures

hazard.

Stop the source of the leak, if safe to do so.

Wear protective equipment to prevent skin, eye and respiratory exposure.

Clear area of any unprotected personnel.

Contain using sand, earth or vermiculite. 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.

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

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 8.

Workplace Exposure Standards

A workplace exposure standard (WES) has not been established by the NZ Department of Labour for this product. There is a general limit of 10mg/m³ for dusts and mists when limits have not otherwise been established.

NZ Workplace Ingredient WES-TWA **WES-STEL**

Exposure Stds No ingredients listed

(OSH - DoL 2011)

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 in Employment Act 1992 (HSE). 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.





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Personal Protective Equipment

Protective eyewear is not normally necessary when using this product. However, it

always prudent to use protective eyewear if splashes are likely.

Skin If discomfort is felt (e.g., if pre-existing conditions exist, such as dermatitis, cuts or

sensitive skin), gloves may be helpful. If you suffer from dermatitis type skin conditions, use gloves. (INSERT TYPE OF GLOVE) are recommended. Replace

frequently. Gloves should be checked for tears or holes before use.

Respi A respirator when airborne concentrations approach the WES (section 8). Use a ratory

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 faint odour рΗ no data Vapour pressure no data **Viscosity** no data **Boiling point** no data Volatile materials no data Freezing / melting no data

point

Solubility soluble in water

Specific gravity / no data

density

Flash point non flammable Danger of explosion not explosive **Auto-ignition** no data

temperature

Upper & lower no data

flammable limits

Corrosiveness non corrosive

10. STABILITY & REACTIVITY

Stability

Conditions to be Containers should be kept closed in order to avoid contamination. Keep from extreme avoided

heat and open flames.

Incompatible groups None known **Substance Specific** None known

Incompatibility

Hazardous None known

decomposition

products

Hazardous reactions none known

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11. TOXICOLOGICAL INFORMATION

Summary

IF SWALLOWED: May cause numbness of the tongue and perioral region. Systemic toxicity may occur. Excitation of the central nervous system may be manifested by yawning, restlessness, excitement, nervousness, dizziness, blurred vision, nausea and vomiting, muscle twitching and tremors and convulsions.

IF IN EYES: May cause transient stinging or redness and interfere with colour vision.

IF ON SKIN: May cause skin irritation and/or allergy in susceptible individuals.

IF INHALED: Can be harmful if inhaled. Side effects are the same as when swallowed.

Supporting Data

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

>5,000 mg/kg. Data considered includes: Lignocaine 292mg/kg (mouse).

Dermal No evidence of dermal toxicity. Inhaled No evidence of inhalation toxicity.

The mixture is not considered to be an eye irritant. Eye

Skin The mixture is considered to be a skin irritant, Lignocaine present is considered a

skin irritant in more concentrated form.

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

Mutagenicity The mixture is considered to be a suspected mutagen, based on a metabolite of

Lignocaine (2,6-xylidine), which has shown to be mutagenic in bacteria and/or

Carcinogenicity The mixture is considered to be a suspected carcinogen. Lignocaine is not listed

by IARC, hoever EPA have classified Lignocaine as a suspected carcinogen based on a metabolite of Lignocaine (2,6-xylidine). 2,6-xylidine is classed Group

2B possibly carcinogenic to humans (IARC).

Reproductive / **Developmental Systemic**

No ingredient present at concentrations > 0.1% is considered a reproductive or

developmental toxicant or have any effects on or via lactation.

The mixture is considered to be a suspected target organ toxicant. The

substance may be toxic to cardiovascular system, central nervous system (CNS). Repeated or prolonged exposure to the substance can produce target organs

damage.

Aggravation of existing conditions

None known.

12. **ECOLOGICAL DATA**

Summary

This mixture is not considered ecotoxic towards aquatic or terrestrial organisms.

Supporting Data

Aquatic No evidence

Bioaccumulation No data. Not expected to bioaccumulate.

Degradability Readily biodegradable. Soil No evidence of soil toxicity. Terrestrial vertebrate

See acute toxicity.

Terrestrial invertebrate No evidence of toxicity towards terrestrial invertebrates.

Biocidal no data

Environmental effect No EELs are available for this mixture or ingredients

levels

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13. DISPOSAL CONSIDERATIONS

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

packaging send to landfill or similar.

14. TRANSPORT INFORMATION

There are no specific restrictions for this product (not a dangerous good).

UN number: NA Proper shipping name: NA Class(es): NA Packing group: NA

Precautions: Not applicable. Hazchem code: 1T (recommended)

15. REGULATORY INFORMATION

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO). Approval code: HSR002330, Liquid containing 1.5 - 2.5% lignocaine.

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

Key workplace requirements are:

MSDS To be available within 10 minutes in workplaces storing > 1L.

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

occur.

Emergency plan Required if > 10000L is stored.

Approved handler Not required.

Tracking Not required.

Bunding & secondary containment Required if > 10000L is stored.

Signage Not required.
Location test certificate Not required.
Flammable zone Not required.
Fire extinguisher Not required.

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, Safety in Employment Act and Regulations, local Council Rules and Regional Council Plans. ACVM registration number: A006498

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16. OTHER INFORMATION

Abbreviations

Approval HSR002330, Liquid containing 1.5 - 2.5% lignocaine Controls, EPA. **Approval Code**

www.epa.govt.nz

Agricultural Compounds and Veterinary Medicines **ACVM**

ARTG Australian Register of Therapeutic Goods

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). EC₅₀

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

population (e.g. daphnia, fish species)

ERMA Environmental Risk Management Authority (now EPA)

FΡΔ Environmental Protection Agency (previously known as ERMA)

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

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

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

(usually rats)

Material Safety Data Sheet (or Safety Data Sheet) MSDS

OSH - DoL The Occupational Safety and Health Service of the Department of Labour (NZ) 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)

UFI Upper Explosive Limit **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.

References

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

database (CCID) http://www.epa.govt.nz/hs/compliance/chemicals.html for specific

chemicals.

EPA Transfer Gazettes

Controls Matrix

Classifications and controls assigned for specific ingredients (consolidated gazette, 2004)

Part of the EPA New Zealand User Guide to the HSNO Control Regulations

The NZ Workplace Exposure Standards Effective from 2011, published by OSH – DoL and WFS 2011

available on their web site - www.osh.dol.govt.nz.

Other References: Suppliers MSDS

Review

Date Reason for review

September 2012 Not applicable - new MSDS

Disclaimer

This MSDS was prepared by Datachem LTD and is based on our current state of knowledge, including information obtained from suppliers. The MSDS 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 MSDS) 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, are based on our experience, EPA Guidelines and international classifications. This MSDS is copyright Datachem and must not be edited without the permission of the copyright holder or used for other than intended purpose. To contact the MSDS author, email info@datachem.co.nz or phone: (09) 940 30 80.