



## Safety Data Sheet

### Xylaze 50 injection

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## 1. IDENTIFICATION OF SUBSTANCE & COMPANY

### Product information

Product name	Xylaze 50 injection
Other names	NA
ACVM approval	A006220
HSNO approval	HSR002335
Approval description	Liquid containing 3 - 6% xylazine
UN number	NA
Proper Shipping Name	NA
Packaging group	NA
Hazchem code	1T (recommended)
Uses	An analgesic, sedative and muscle relaxant for use in horses, cattle and deer.

### Company Details

Company	<b>Bayer New Zealand Ltd</b>
Address	3 Argus Place, Hillcrest, Auckland 0627 New Zealand.
Telephone	0800 652 488
Facsimile	0800 229 838

**Emergency Telephone Number: 0800 734 607**

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## 2. HAZARD IDENTIFICATION

### Approval

This product has been approved under the Hazardous Substances and New Organisms Act (HSNO, Approval HSR002335, Liquid containing 3 - 6% xylazine), and is classified as follows:

Classes	Hazard Statements
6.1E (oral)	May be harmful if swallowed
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: A006220

There are no other Classifications that are known to apply.



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### Precautionary Statements

Keep out of reach of children.  
Read label before use."  
Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Use personal protective equipment as required.  
Do not breathe vapours.  
Wash hands thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Store locked up.

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

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### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS/ Identification	Concentration
Xylazine as Xylazine HCl	23076-35-9	50mg/mL
Water	7732-18-5	balance

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

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### 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 aid facilities** Ready access to running water is required. Accessible eyewash is required.

#### Exposure

**Swallowed** Do NOT induce vomiting. Give a glass of water to drink. Call a POISON CENTER or doctor/physician if you feel unwell.

**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.

**Injection** If accidental injection (self injection) occurs, contact a doctor immediately.

#### Advice to Doctor

Treat symptomatically

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### 5. FIREFIGHTING MEASURES

**Fire and explosion hazards:** There are no specific risks for fire/explosion for this chemical. It is non-flammable.

**Suitable extinguishing substances:** Carbon dioxide, extinguishing powder, foam, fog sprays, water jets.

**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:** 1T (recommended)



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## 6. ACCIDENTAL RELEASE MEASURES

<b>Containment</b>	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.
<b>Emergency procedures</b>	In the event of a large spillage (>100L) alert the fire brigade to location and give brief description of 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).
<b>Clean-up method</b>	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.
<b>Disposal</b>	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.
<b>Precautions</b>	Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work up wind or increase ventilation.

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## 7. STORAGE & HANDLING

<b>Storage</b>	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.
<b>Handling</b>	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.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTIVE EQUIPMENT

### 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/m<sup>3</sup> for dusts and mists when limits have not otherwise been established.

NZ Workplace Exposure Stds (OSH – DoL 2011)	Ingredient	WES-TWA	WES-STEL
	No ingredients listed		

### 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

##### Eyes



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

##### Skin

Protective gloves are recommended. Rubber gloves are recommended. Replace frequently. Gloves should be checked for tears or holes before use. Respirator is not required under normal use. Ensure adequate natural ventilation. If product is being used in confined conditions, the use of a mask or respirator may be preferred.

##### Respiratory

#### WES Additional Information

Not applicable

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## 9. PHYSICAL & CHEMICAL PROPERTIES

<b>Appearance</b>	clear colourless solution free from particulate matter
<b>Odour</b>	mild amine odour
<b>pH</b>	no data
<b>Vapour pressure</b>	no data
<b>Viscosity</b>	no data
<b>Boiling point</b>	no data
<b>Volatile materials</b>	no data
<b>Freezing / melting point</b>	no data
<b>Solubility</b>	soluble in water
<b>Specific gravity / density</b>	no data
<b>Flash point</b>	non flammable
<b>Danger of explosion</b>	not explosive
<b>Auto-ignition temperature</b>	no data
<b>Upper &amp; lower flammable limits</b>	no data
<b>Corrosiveness</b>	non corrosive

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## 10. STABILITY & REACTIVITY

<b>Stability</b>	Stable
<b>Conditions to be avoided</b>	Containers should be kept closed in order to avoid contamination. Keep from extreme heat and open flames. Protect from sunlight.
<b>Incompatible groups</b>	none known
<b>Substance Specific Incompatibility</b>	none known
<b>Hazardous decomposition products</b>	none known
<b>Hazardous reactions</b>	none known



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## 11. TOXICOLOGICAL INFORMATION

### Summary

IF SWALLOWED: Symptoms include: Tiredness, faintness, blurred vision, sleep, drowsiness, slurred speech, severe bradycardia, coma, apnoea. Xylazine may be absorbed via oral mucous membranes and from gastrointestinal tract.

IF IN EYES: May irritate eyes.

IF ON SKIN: May irritate skin.

IF INHALED: May cause drowsiness.

### Supporting Data

Acute	Oral	EPA have classified this mixture as 6.1E (oral). The estimated LD <sub>50</sub> for the mixture is between 2000 and 5000mg/kg. Data considered includes Xylazine HCl 130mg/kg (rat), 240mg/kg (mouse), LDLo 150mg/kg (rat).
	Dermal	No evidence of dermal toxicity. Substance may be absorbed through the skin.
	Inhaled	EPA have not classed this substance as harmful if inhaled, however it may be absorbed via respiratory mucous membranes.
	Eye	The mixture is not considered to be an eye irritant. Xylazine HCl is an eye irritant, but present less 10%.
	Skin	The mixture is considered to be a mild skin irritant. Xylazine HCl is a mild skin irritant.
Chronic	Sensitisation	The mixture is not considered to be a sensitizer. Xylazine HCl is not considered to be sensitising.
	Mutagenicity	The mixture is considered to be a suspected mutagen. Xylazine is a suspected mutagen.
	Carcinogenicity	The mixture is considered to be a suspected carcinogen. Xylazine is a suspected carcinogen.
	Reproductive / Developmental	No ingredient present at concentrations > 0.1% is considered a reproductive or developmental toxicant or have any effects on or via lactation.
	Systemic	The mixture is considered to be a suspected target organ toxicant. Xylazine may affect respiration, blood, cardiovascular system, behavior/central nervous system, endocrine system.
	Aggravation of existing conditions	None known.

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## 12. ECOLOGICAL DATA

### Summary

This mixture is not considered harmful to aquatic life or terrestrial vertebrates.

### Supporting Data

Aquatic	No evidence of aquatic toxicity.
Bioaccumulation	No data, not expected to bioaccumulate.
Degradoability	No data
Soil	No evidence of soil toxicity.
Terrestrial vertebrate	The mixture has been not been classified as harmful to terrestrial vertebrates. Using LD <sub>50</sub> 's for ingredients, the calculated LD <sub>50</sub> (oral, rat) for the mixture is >2,000 mg/kg. Data considered includes: Xylazine HCl 130mg/kg (rat), 240mg/kg (mouse), LDLo 150mg/kg (rat).
Terrestrial invertebrate	No evidence of toxicity towards terrestrial invertebrates.
Biocidal	no data
Environmental effect levels	No EELs are available for this mixture or ingredients



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#### 13. DISPOSAL CONSIDERATIONS

<b>Restrictions</b>	There are no product-specific restrictions, however, local council and resource consent conditions may apply, including requirements of trade waste consents.
<b>Disposal method</b>	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.
<b>Contaminated packaging</b>	Rinse containers with water before disposal. Preferably re-cycle container, otherwise send to landfill or similar.

#### 14. TRANSPORT INFORMATION

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

<b>UN number:</b>	NA	<b>Proper shipping name:</b>	NA
<b>Class(es):</b>	NA	<b>Packing group:</b>	NA
<b>Precautions:</b>	NA	<b>Hazchem code:</b>	1T (recommended)

#### 15. REGULATORY INFORMATION

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO). Approval code: HSR002335, Liquid containing 3 - 6% xylazine.

##### 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 > 0.1L.
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: A006220



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### 16. OTHER INFORMATION

#### Abbreviations

<b>Approval Code</b>	Approval HSR002335, Liquid containing 3 - 6% xylazine Controls, EPA. <a href="http://www.epa.govt.nz">www.epa.govt.nz</a>
<b>ACVM</b>	Agricultural Compounds and Veterinary Medicines
<b>ARTG</b>	Australian Register of Therapeutic Goods
<b>CAS Number</b>	Unique Chemical Abstracts Service Registry Number
<b>Ceiling</b>	Ceiling Exposure Value: The maximum airborne concentration of a biological or chemical agent to which a worker may be exposed at any time.
<b>Controls Matrix</b>	List of default controls linking regulation numbers to Matrix code (e.g. T1, I16).
<b>EC<sub>50</sub></b>	Ecotoxic Concentration 50% – concentration in water which is fatal to 50% of a test population (e.g. daphnia, fish species)
<b>ERMA</b>	Environmental Risk Management Authority (now EPA)
<b>EPA</b>	Environmental Protection Agency (previously known as ERMA)
<b>HAZCHEM Code</b>	Emergency action code of numbers and letters that provide information to emergency services, especially fire fighters
<b>HSNO</b>	Hazardous Substances and New Organisms (Act and Regulations)
<b>IARC</b>	International Agency for Research on Cancer
<b>LEL</b>	Lower Explosive Limit
<b>LD<sub>50</sub></b>	Lethal Dose 50% – dose which is fatal to 50% of a test population (usually rats).
<b>LC<sub>50</sub></b>	Lethal Concentration 50% – concentration in air which is fatal to 50% of a test population (usually rats)
<b>MSDS</b>	Material Safety Data Sheet (or Safety Data Sheet)
<b>OSH - DoL</b>	The Occupational Safety and Health Service of the Department of Labour (NZ)
<b>STEL</b>	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
<b>TWA</b>	Time Weighted Average – generally referred to WES averaged over typical work day (usually 8 hours)
<b>UEL</b>	Upper Explosive Limit
<b>UN Number</b>	United Nations Number
<b>WES</b>	Workplace Exposure Standard - The airborne concentration of a biological or chemical agent to which a worker may be exposed.

#### References

<b>Data</b>	Unless otherwise stated comes from the EPA HSNO chemical classification information database (CCID) <a href="http://www.epa.govt.nz/hs/compliance/chemicals.html">http://www.epa.govt.nz/hs/compliance/chemicals.html</a> for specific chemicals.
<b>EPA Transfer Gazettes</b>	Classifications and controls assigned for specific ingredients (consolidated gazette, 2004)
<b>Controls Matrix</b>	Part of the EPA New Zealand User Guide to the HSNO Control Regulations
<b>WES 2011</b>	The NZ Workplace Exposure Standards Effective from 2011, published by OSH – DoL and available on their web site – <a href="http://www.osh.dol.govt.nz">www.osh.dol.govt.nz</a> .
<b>Other References:</b>	Suppliers MSDS
<b>Review</b>	
<b>Date</b>	<b>Reason for review</b>
November 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](mailto:info@datachem.co.nz) or phone: (09) 940 30 80.

