



SAFETY DATA SHEET

Title: METHODYNE INJECTION		Document: SDS-AU055	
Status: Current		Rev: 1.2 PAGE 1 OF 7	
Status: Current	Issue Date: 01-Mar-2023	Effective Date: 01-Mar-2023	Review Date: 18-Jan-2026

Section 1: IDENTIFICATION of CHEMICAL PRODUCT and COMPANY

Product Name:	Methodyne Injection
Recommended Use:	For analgesia and restraint in horses, and analgesia and anaesthetic premedication in dogs and cats.
Restrictions on Use:	For animal treatment only.
Company Identification:	Jurox Pty Limited (part of Zoetis)
Address:	85 Gardiner Street Rutherford NSW 2320 Australia
Email:	customerservice@jurox.com.au
Customer Service:	1800 022 442 (Mon-Fri, 8:00am – 6:00pm AEST)
National Poisons Information Centre:	13 11 26 (Australia-wide)
Emergency Telephone Number:	1800 814 883 (all hours)

Section 2: HAZARDS IDENTIFICATION

This product has been assessed according to GHS and is classified as follows:

GHS Category	Hazard code	Hazard Statement
STOT – RE Category 2	H373	May cause damage to organs through prolonged or repeated exposure
Chronic aquatic hazard Category 3	H412	Harmful to aquatic life with long lasting effects

Signal word: **WARNING**

GHS Pictograms:



Health hazard

Precautionary statements:

Prevention

P260 Do not breathe vapours.

P273 Avoid release to the environment.

Response

P314 Get medical advice/attention if you feel unwell.

P391 Collect spillage.



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Disposal

P501 Dispose of empty container by wrapping with paper and putting in garbage. Return unused expired product to pharmacy or pharmacy inspector.

Section 3: COMPOSITION / INFORMATION on INGREDIENTS

INGREDIENT	CAS No.	CONTENT
Methadone hydrochloride	125-56-4	1%
Ingredients not contributing to the hazards		> 90%

Section 4: FIRST AID MEASURES

General Information: Respiratory depression, systemic hypotension, respiratory arrest, shock, cardiac arrest and death may occur. Consult the National Poisons Centre on 13 11 26 or a doctor immediately in every case of suspected chemical poisoning. Never give fluids or induce vomiting if a patient is unconscious or convulsing regardless of cause of injury. If medical advice/attention is needed, have this SDS, product container or label at hand.

Symptoms and Effects of Exposure: Methadone side effects generally encompass a broad range of symptoms that may commonly include constipation, drowsiness, dry mouth, euphoria, lightheadedness, slowed breathing, and weakness. Additional side effects of methadone that are not as common often include palpitations, hives, impaired concentration, nausea, skin rash, sweating, vomiting, muscle twitching, and disorientation.

Inhalation: If fumes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually not necessary. If respiratory symptoms occur, remove patient to fresh air. Lay patient down and keep warm and rested. If breathing is shallow or has stopped, ensure airway is clear and apply resuscitation. If breathing is difficult, give oxygen and seek medical assistance immediately.

Ingestion: If swallowed do NOT induce vomiting. Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Observe the patient carefully. **Contact a doctor or the National Poisons Centre on 13 11 26 immediately.**

Skin: If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.

Eye: If eye contact occurs: Immediately hold eyelids apart and flush the eye continuously with running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Continue flushing for at least 20 minutes. If eye irritation persists, get medical advice/attention.

Recommended First Aid Facilities: Ready access to running water and soap is required. Accessible eyewash is required.

Advice to Doctor: Treat symptomatically for a narcotic analgesic.



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Section 5: FIRE FIGHTING MEASURES

Flash Point: No data.

Hazardous Combustion Products: If involved in a fire, may emit noxious and irritant fumes.

Extinguishing Media: There is no restriction on the type of extinguisher which may be used. Use extinguishing media suitable for surrounding area.

Protective Equipment: Protective gloves and breathing apparatus.

HAZCHEM Code: None specified.

Section 6: ACCIDENTAL RELEASE MEASURES

Spills and Disposal: Exclude non-essential people from the area. Wear gloves and appropriate protective clothing. Contain spill and absorb with inert material such as soil, sand or absorbent granules and place in a sealable waste container. Ventilate area and wash spill site after pick-up complete. Dispose of waste safely in an approved landfill. In the event of a major spill, prevent spillage from entering drains or water courses and call emergency services.

Protective Clothing: For appropriate personal protective equipment see section 8.

Environmental Precautions: Prevent from entering drains, waterways or sewers. If spill does enter waterways contact local authority.

Section 7: HANDLING AND STORAGE

Handling: This is a Schedule 8 (Controlled Drug) product and therefore must be stored and maintained in accordance with the relevant State Poisons Act. Possession without authority is illegal. Handle this product with care to avoid exposure, taking all recommended precautions. Avoid contact with skin, eyes and inhalation of vapours. Take care to avoid accidental self-injection. Use personal protective equipment as required. Do not eat, drink or smoke while handling product.

Storage: Methodyne Injection is a Controlled Drug (S8) and therefore must be stored and maintained in accordance with the relevant State Poisons Act. Possession without authority is illegal. Keep out of reach of children. Store below 30°C (room temperature). Protect from light.

Other Information: Avoid contact with incompatible substances as listed in Section 10. Always read the label before use.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

This SDS describes personal protective measures relating to long term industrial and manufacturing exposure and emergency situations, such as accidents and spills. See product label for personal protective measures during normal use of the marketed product.

Exposure Limits: No exposure limits have been assigned for this product or its ingredients.

Engineering Controls: Use only in a well-ventilated area. Make sure that the work environment remains clean and that vapours and mists are minimised.



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Personal Protective Equipment (PPE):

Eye protection: Protective glasses or goggles are recommended when this product is being used.

Skin protection: When handling bulk product, prevent skin contact by wearing chemical protective gloves e.g. PVC.

Respiratory protection: Not required for the normal use of this product.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear, colourless solution	Lower flammability limits:	Not available
Odour:	Not available	Vapour Pressure:	Not available
Odour threshold:	Not available	Vapour density:	Not available
pH:	4.5 – 6.5	Relative density:	Not applicable
Melting Point:	Not applicable	Specific Gravity:	Approx. 1.0
Boiling Point:	Not available	Solubility in Water:	Miscible
Flash Point:	Not available	Partition coefficient:	Not available
Evaporation Rate:	Not available	Auto-ignition temperature:	Not available
Flammability:	Not flammable	Decomposition temperature:	Not available
Upper flammability limits:	Not available	Viscosity:	Not applicable

Section 10: STABILITY AND REACTIVITY

Reactivity: This product is unlikely to react or polymerise under normal storage conditions.

Stability: When stored appropriately this product should show no significant degradation within the expiry period shown on the label.

Conditions to Avoid: Protect this product from light.

Incompatible Materials: Oxidising agents.

Hazardous Decomposition Products: No data available.



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Section 11: TOXICOLOGICAL INFORMATION

Acute Toxicity:

Ingestion: No data for the mixture is available. Based on available data for the ingredients, the mixture is not considered to be acutely toxic by the oral route. Adverse effects may occur following ingestion of methadone. May result in rapid shallow breathing, temporary paralysis or weakness of muscles, reduced urine output, drowsiness, nausea, vomiting, flushed face, irregular heartbeat, constipation, loss of appetite, general feeling of discomfort, false sense of well-being, dry mouth, stomach cramps, confusion, headache, visual disturbances and symptoms of shock (cold clammy skin, rapid weak pulse, dizziness, weakness and fainting). Doses of 50 mg or less have been known to be lethal to nontolerant adults. The fatal dose in children is 10-20 mg.

Methadone hydrochloride: Oral LD₅₀: 95mg/kg (rat).

Methadone: Oral LD₅₀: 70mg/kg (mouse).

Inhalation: No data for the mixture is available. Based on available data for the ingredients, the mixture is not considered to be acutely toxic by the inhalation route.

Dermal: No data for the mixture is available. Based on available data for the ingredients, the mixture is not considered to be acutely toxic by the dermal route. Adverse effects may occur following skin absorption (see ingestion).

Skin Corrosion / Irritation: No data for the mixture is available. Based on available data for the ingredients, the mixture is not considered to be skin irritant.

Serious Eye Damage / Irritation: No data for the mixture is available. Based on available data for the ingredients, the mixture is not considered to be eye irritant.

Respiratory or Skin Sensitisation: No data for the mixture is available. Based on available data for the ingredients, the mixture is not considered to be a skin sensitisier or respiratory sensitisier.

Germ Cell Mutagenicity: No data for the mixture is available. Based on available data for the ingredients, the mixture is not considered to be mutagenic.

Carcinogenicity: No data for the mixture is available. Based on available data for the ingredients, the mixture is not considered to be carcinogenic.

Reproductive Toxicity: Methadone readily crosses the placental barrier and may cause respiratory depression in neonates and withdrawal syndrome in neonates. Cases of intra-uterine death have been reported during methadone usage in the late mid-trimester or last trimester of pregnancy. Methadone is secreted in breast milk in concentration approaching plasma levels.

STOT: Single exposure: No data for the mixture is available. Based on available data for the ingredients, the mixture is not considered to be a specific target organ toxicant after single exposure. As with other potent opioids, clinically significant respiratory depression may occur after single exposure.

STOT: Repeat exposure: Repeated exposure to opioid analgesics may result in physical dependence. Prolonged exposure to methadone can cause cardiac abnormalities (Q-T interval prolongation) in some patients.

Aspiration hazard: No data available.



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Section 12: ECOLOGICAL INFORMATION

Ecotoxicity: Methadone hydrochloride is harmful in the aquatic environment.

Methadone hydrochloride:
Algae EC₅₀ (96 h) 1.358 mg/L;
Fish EC₅₀ (96 h) 3.482 mg/L.

Ingredient	Persistence: Water/Soil	Persistence: Air	Bioaccumulation	Mobility
Methadone hydrochloride	HIGH	HIGH	MED (logKOW = 4.1665)	LOW (KOC = 72790)

Section 13: DISPOSAL INFORMATION

Product Disposal: Dispose of product only by using according to label or at an approved landfill.

Container Disposal: Crush or puncture and bury in an approved landfill if an approved recycling system is not available.

Section 14: TRANSPORT INFORMATION

Dangerous Goods Classification: Not considered a Dangerous Good for land, sea and air transport.

Section 15: REGULATORY INFORMATION

Poison Schedule (SUSMP): S8

APVMA No.: 64300

AICS: All of the significant ingredients in this formulation are compliant with NICNAS regulations.

Section 16: OTHER INFORMATION

This information is based on data believed by Jurox Pty Limited to be accurate at the time of writing but is subject to change without notice. It is given in good faith, but no warranty expressed or implied is made as to its accuracy, completeness otherwise and no assumption of liability from howsoever arising is made by Jurox Pty Limited by reason of the provision of this information. Every person dealing with the materials referred to herein does so at his/her own risk absolutely and must make independent determinations of suitability and completeness of information from all sources to ensure their proper use.

Legend:

AICS	Australian Inventory of Chemical Substances.
CAS No.	Chemical Abstracts Service Registry Number.
EC₅₀	The median effect concentration, being a statistically derived concentration of a substance that can be expected to cause an adverse reaction in 50% of organisms a 50% reduction in growth or in the growth rate of organisms.
GHS	Globally Harmonized System of Classification and Labelling of Chemicals.
Hazchem Code	Emergency action code of numbers and letters that provide information to emergency services especially firefighters.
KOC	Soil-Water Partition Coefficient. The ratio of a chemical's concentration that is adsorbed in the soil to the concentration of chemical in solution.



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KOW	Octanol Water Partition Coefficient. The ratio of a compound's concentration in a known volume of n-octanol to its concentration in a known volume of water after the octanol and water have reached equilibrium.
LD₅₀	The median lethal dose, being a statistically derived single dose of a substance that can be expected to cause death in 50% of animals.
NICNAS	National Industrial Chemicals Notification and Assessment Scheme.
PPE	Personal Protective Equipment.
PVC	Polyvinyl Chloride.
SDS	Safety Data Sheet.
STOT	Specific Target Organ Toxicity.
STOT – RE	Specific Target Organ Toxicity – Repeat Exposure
SUSMP	Standard for the Uniform Scheduling of Medicines and Poisons.

References:

ChemID Plus

EPA New Zealand Chemical Classification and Information Database (CCID)

HSDB (Hazardous Substances Data Bank)

Revision History:

Date of Revision	Reason
21 December 2015	Addition of cats in recommended use and update of SDS to GHS format.
18 January 2021	Minor update to Jurox's email contact details.
01 March 2023	Updates to Customer Service and emergency telephone numbers to Zoetis numbers.

END OF SDS