

SAFETY DATA SHEET**Section 1: IDENTIFICATION of CHEMICAL PRODUCT and COMPANY**

Product Name:	Neomycin Sulfate Injection
Product Code:	60200
Recommended Use:	For the treatment of infections due to Neomycin sensitive organisms in horses, cattle, sheep, pigs, dogs and cats.
Company Identification:	Jurox Pty Limited
Address:	85 Gardiner Street Rutherford NSW 2320 Australia
Email:	customerservice@jurox.com.au
Customer Centre:	1800 023 312
National Poisons Information Centre:	13 1126 (Australia-wide)
Emergency Telephone Number:	1800 023 312 (Monday – Friday, 9a.m. – 5p.m.)

Section 2: HAZARDS IDENTIFICATION

Hazard Classifications: Considered a Hazardous Substance according to the criteria of GHS.
Not considered a Dangerous Good according to the criteria of the Australian Dangerous Goods (ADG) Code.

GHS Hazard Classification:*

GHS Category	Hazard code	Hazard Statement
Skin Corrosion/Irritation Category 2	H315	Causes skin irritation.
Eye Irritation Category 2A	H319	Causes serious eye irritation.
Respiratory Sensitizer Category 1	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin Sensitizer Category 1	H317	May cause an allergic skin reaction.
Reproductive Toxicity Category 1B	H360	May damage fertility or the unborn child.*
Specific target organ toxicity - single exposure Category 3	H335	May cause respiratory irritation.

GHS Pictograms:

Exclamation mark



Health hazard

Signal Word:***DANGER****Precautionary Statements:*****Prevention**

- P201 Obtain special instructions before use.
- P261 Avoid breathing vapours.
- P271 Use only outdoors or in a well-ventilated area.
- P280 Wear protective gloves e.g. PVC or vinyl and protective eyewear e.g. Safety glasses with eye side shields or chemical goggles.
- P281 Use personal protective equipment as required.
- P285 In case of inadequate ventilation wear respiratory protection.

Response

- P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a

P308+P313 position comfortable for breathing.
 IF exposed or concerned: Get medical advice/attention.
 P342+P311 If experiencing respiratory symptoms: Call a POISON CENTRE or doctor/physician.
 P362 Take off contaminated clothing and wash before reuse.
 P302+P352 IF ON SKIN: Wash with plenty of soap and water.
 P305+P351+ IF IN EYES: Rinse cautiously with water for several minutes.
 P338 Remove contact lenses, if present and easy to do. Continue rinsing.

Storage

P403+P233 Store in a well-ventilated place. Keep container tightly closed.
 P405 Store locked up.

Disposal

P501 Dispose of contents/container in accordance with local/national regulations.

* N.B.: These statements are determined by Work Health and Safety regulations and may not reflect Signal Headings and First Aid and Safety statements on product labelling, which are determined by a competent authority during assessment for registration.

Section 3: COMPOSITION / INFORMATION on INGREDIENTS

INGREDIENT	CAS No.	CONTENT
Neomycin sulfate	1405-10-3	20%
Methyl paraben / Methyl hydroxybenzoate	99-76-3	<10%
Propyl paraben/ Propyl hydroxybenzoate	94-13-3	<10%
Water	7732-18-5	>60%

Section 4: FIRST AID MEASURES

General information: Consult the National Poisons Centre on 13 1126 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 product container or label at hand.

Inhalation: If fumes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually not necessary.

Ingestion: If swallowed, immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor. Neomycin taken orally or by injection may sometimes cause severe allergic reactions that can be life-threatening in neomycin-sensitive individuals. If allergic reaction is suspected immediately seek medical advice/attention.

Skin: May cause skin rashes in sensitised persons. If skin contact occurs, immediately remove all contaminated clothing, including footwear. Wash affected area thoroughly with plenty of soap and water. If skin irritation or rash occurs, get medical advice/attention.

Eye: If eye contact occurs, rinse cautiously with water for at least 20 minutes. If eye irritation persists, get medical advice/attention.

Injection: Treat as for needle-stick injury. Wash area well and disinfect. If other symptoms are evident, seek medical advice. Neomycin taken orally or by injection may sometimes cause severe allergic reactions that can be life-threatening in neomycin-sensitive individuals. If allergic reaction is suspected immediately seek medical advice/attention.

Advice to Doctor: Neomycin is an aminoglycoside antibiotic. Treat symptomatically.

Section 5: FIRE FIGHTING MEASURES

Flash Point: Not flammable.

Hazardous Combustion Products: If involved in a fire, may emit noxious fumes. Non-combustible – not considered to be a significant fire risk.

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 boots and breathing apparatus.
Special Hazards:	Fire Incompatibility: None Known.
HAZCHEM:	None specified.

Section 6: ACCIDENTAL RELEASE MEASURES

Spills and Disposal:	Wear appropriate protective clothing. Exclude non-essential people from the area. Contain spill and sweep up / 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.
Protective Clothing:	For appropriate personal protective equipment see section 8.
Environmental Precautions:	If contamination of drains and waterways occurs, advise Emergency Services.

Section 7: HANDLING AND STORAGE

Handling:	Avoid all personal contact, including inhalation. Use personal protective equipment as required.
Storage:	Neomycin Sulfate Injection is a Scheduled Poison (S4) and therefore must be stored and maintained in accordance with the relevant State Poisons Act. Store in original container, away from foodstuffs. Store below 30°C (room temperature). Protect from light. Keep out of reach of children.
Other Information:	Always read the label before use. See label for further information on handling and storage.

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. Do not handle until all safety precautions have been read and understood.
Protective Equipment:	Safety glasses with eye side shields or chemical goggles. Chemical protective gloves, e.g. PVC. Safety footwear or safety gumboots, e.g. rubber.
Engineering Controls:	Handle in a well ventilated area.
Hygiene Precautions:	Do not drink, eat or smoke when handling this product. Wash hands after use.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Pale straw coloured liquid; mixes with water.	Upper flammability limits:	Not applicable.
Odour:	No data.	Lower flammability limits:	Not applicable.
Odour threshold:	No data.	Vapour Pressure:	No data.
pH:	6.7 – 7.0.	Vapour density:	No data.
Melting Point:	Not applicable.	Relative density:	Not applicable.
Boiling Point:	No data.	Specific Gravity:	No data.
Flash Point:	Not flammable.	Solubility in Water:	Miscible.
Evaporation Rate:	Not available.	Partition coefficient:	No data.
Flammability:	Not applicable.		

Auto-ignition temperature:	No data.	Viscosity:	No data.
Decomposition temperature:	Not applicable.		

Section 10: STABILITY AND REACTIVITY

Stability:	When stored appropriately this product should show no significant degradation within the expiry period shown on the labelling.
Hazardous Polymerisation:	Not known to occur.
Materials to Avoid:	None known.

Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity:	<p>Inhalation: Not normally a hazard due to the non-volatile nature of the product.</p> <p>Ingestion: The material has NOT been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence. However, high doses can lead to kidney damage.</p> <p><u>Neomycin sulfate:</u> LD₅₀ (oral): >8000 mg / kg (mouse);</p> <p><u>Methyl Hydroxybenzoate:</u> LD₅₀ (oral): 2100 mg / kg(rat);</p> <p><u>Propyl hydroxybenzoate:</u> LD₅₀ (oral): 6332 mg/kg (mouse).</p>
Skin Irritation/Corrosion:	Based on available data for the ingredients, the mixture is classified as skin irritant -Skin Corrosion/Irritation Category 2. There is some evidence to suggest that this mixture can cause inflammation of the skin on contact in some persons. Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects.
Serious Eye Damage/Irritation:	Based on available data for the ingredients, the mixture is classified as an eye irritant – Eye Irritation Category 2A. Although the liquid is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may produce transient discomfort characterised by tearing or conjunctival redness (as with windburn).
Respiratory or Skin sensitisation:	Based on available data for the ingredients, the mixture is classified as Respiratory Sensitizer Category 1 & Skin Sensitizer Category 1- May cause allergy or asthma symptoms or breathing difficulties if inhaled & May cause an allergic skin reaction.
Injection:	<p>High doses can lead to kidney damage. Treat as for needle-stick injury. Wash area well and disinfect. If other symptoms evident, seek medical advice. May cause severe allergic reactions that can be life-threatening in neomycin-sensitive individuals.</p> <p>Neomycin sulfate: LD₅₀ (intraperitoneal): 305 mg / kg (mouse).</p>
Chronic Effects:	May cause allergic reactions, possibly serious in neomycin sensitive individuals. Ample evidence exists that exposure to this material can cause reduced fertility and developmental disorders. Long-term exposure to aminoglycoside antibiotics can damage the kidneys. Neomycin sulfate inhibits intestinal mucosal transport and can cause weight loss and malabsorption symptoms in patients regularly receiving this drug.
Reproductive Toxicity:	Based on available data for ingredients, the mixture is classified as Reproductive Toxicity Category 1B - May damage fertility or the unborn child, classified based on limited evidence. Long term exposure to this material can cause reduced fertility and developmental disorders.
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.

STOT - Single Exposure:

Based on available data for ingredients, the mixture is classified as specific target organ toxicant after single exposure - Specific target organ toxicity - single exposure Category 3-may cause respiratory tract irritation.

STOT – Repeated 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 repeated exposure but long term exposure to antibiotics can damage the kidneys.

Section 12: ECOLOGICAL INFORMATION**Ecotoxicity:**

DO NOT discharge into sewer or waterways. However under GHS criteria, the mixture is not considered to be toxic to the environment.

Methyl Hydroxybenzoate: Fish: LC50 (96 h): 22.350 mg/L;
Crustacea: EC50 (48h): 41.1 mg/L;
Algae or other aquatic plants: EC50 (96h): 1.833 mg/L.
Propyl Hydroxybenzoate: Fish: LC50 (96 h): 6.4 mg/L;
Algae or other aquatic plants: EC50 (96h): 0.673 mg/L.

Ingredient	Persistence: Water/Soil	Persistence: Air	Bioaccumulation	Mobility
Neomycin sulfate	No data available	No data available	No data available	No data available
Methyl paraben	Low	Low	Low	Low
Propyl paraben	Low	Low	Low	Low

Section 13: DISPOSAL INFORMATION**Product Disposal:**

Dispose of product only by using according to APVMA approved label or by approved waste collection.

Container Disposal:

Wrap with paper and place in garbage.

Section 14: TRANSPORT INFORMATION**Dangerous Goods Classification:**

Not classified as a Dangerous Good according to the criteria of the Australian Dangerous Goods (ADG) Code.

Section 15: REGULATORY INFORMATION

Poisons Schedule: S4

APVMA Registration No: 36237

AICS:

All of the significant ingredients in this formulation are compliant with NICNAS regulations. The following ingredient: Neomycin, is mentioned in the SUSMP.

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:

ADG	Australian Code for the Transport of Dangerous Goods by Road & Rail, 7 th Edition.
AICS	Australian Inventory of Chemical Substances.
APVMA	Australian Pesticides and Veterinary Medicines Authority.
CAS No.	Chemical Abstracts Service Registry Number.
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.
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.
SUSMP	Standard for the Uniform Scheduling of Medicines and Poisons.

References:

ChemID PlusLite, <http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp>, entry for Neomycin sulphate (RN: 1405-10-3).

Environmental Protection Authority, HSNO Chemical Classification and Information Database (CCID), entry for Neomycin sulphate (Cas Number: 1405-10-3).

THE VSDB (Veterinary Substances Database, <http://sitem.herts.ac.uk/aeru/vsdb/>), entry for Neomycin.

This version issued: 18 July 2017 and is valid for 5 years from this date.

Supersedes: This SDS supersedes the version issued on 13 August 2012.

Revision History:

Date of Revision	Reason
18 July 2017	Updates to section 1, 2, 3, 10, 11, 12 & 15; Updates to Legend and addition of Revision History in Section 16.

END OF SDS