

Section 1 - Identification of Chemical Product and Company

Norbrook NZ Ltd
KPMG Centre, 18 Viaduct Harbour Ave
Auckland, New Zealand

Freecall: 0800 224 022

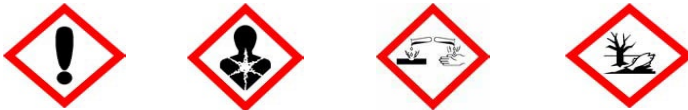
Trade Name: Norodine 24
Product Use: For the treatment of acute, subacute, and chronic conditions of bacterial origin in horses, cattle, sheep, pigs, dogs and cats.
Creation Date: July, 2020
This version issued: November, 2020 and is valid for 5 years from this date.
Poisons Information Centre: Phone 0800 764 766 from anywhere in New Zealand

Section 2 - Hazards Identification

HSNO Approval number: HSR002198

HSNO Hazard Classification: 6.1E (O), 6.3A, 6.5B, 6.8A, 6.9B, 8.3A, 9.1B

GHS PICTOGRAM:



SIGNAL WORD: Danger

HAZARD STATEMENT:

- H303: May be harmful if swallowed.
- H315: Causes skin irritation.
- H317: May cause an allergic skin reaction.
- H318: Causes serious eye damage.
- H360: May damage fertility or the unborn child.
- H373: May cause damage to organs through prolonged or repeated exposure.
- H411: Toxic to aquatic life with long lasting effects.

PREVENTION:

- P102: Keep out of reach of children.
- P103: Read label before use.
- P201: Obtain special instructions before use.
- P202: Do not handle until all safety precautions have been read and understood.
- P260: Do not breathe mist/vapours.
- P264: Wash contacted areas thoroughly after handling.
- P272: Contaminated work clothing should not be allowed out of the workplace.
- P273: Avoid release to the environment.
- P280: Wear protective gloves/eye protection/face protection.
- P281: Use personal protective equipment as required.

RESPONSE:

- P101: If medical advice is needed, have product container or label at hand.
- P314: Get medical advice/attention if you feel unwell.
- P321: See aid instruction on this label.
- P362: Take off contaminated clothing and wash before re-use.
- P363: Wash contaminated clothing before reuse.
- P391: Collect spillage.
- P302 + P352: IF ON SKIN: Wash with plenty of soap and water.
- P308 + P313: IF exposed or concerned: Get medical advice/ attention.
- P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P310: Immediately call a POISON CENTER or doctor/physician.
- P332 + P313: If skin irritation occurs: Get medical advice/ attention.
- P333 + P313: If skin irritation or rash occurs: Get medical advice/attention.

STORAGE:

- P405: Store locked up.

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DISPOSAL:

P501: Dispose of product, packaging and waste at an approved landfill or equivalent facility.

Section 3 - Composition/Information on Ingredients

Ingredients	CAS No	Concentration
Sulfadiazine	68-35-9	200 g/L
Trimethoprim	738-70-5	40 g/L
Other ingredients	secret	Balance

Section 4 - First Aid Measures**General Information:** For advice contact the number is 0800 764 766 in New Zealand and is available at all times. Have this SDS with you when you call.**Inhalation:** If inhalation has occurred, and irritation has developed, remove from contaminated area to fresh air and observe until recovered. Do not allow victim to move about unnecessarily. If irritation becomes painful or persists more than about 30 minutes, seek medical advice.**Skin Contact:** Wash gently and thoroughly with water (use non-abrasive soap if necessary) for 5 minutes or until chemical is removed.**Eye Contact:** Flush contaminated eye(s) with lukewarm, gently flowing water for 5 minutes or until the product is removed. Obtain medical advice if irritation becomes painful or lasts more than a few minutes. Take special care if exposed person is wearing contact lenses.**Ingestion:** If product is swallowed or gets in mouth, do NOT induce vomiting; wash mouth with water and give some water to drink. If symptoms develop, or if in doubt contact a Poisons Information Centre or a doctor.**Section 5 - Fire Fighting Measures****Flash point:** No data**Fire and Explosion Hazards:** The major hazard in fires is usually inhalation of heated and toxic or oxygen deficient (or both), fire gases. Fire decomposition products from this product may be toxic if inhaled. Take appropriate protective measures.**Fire Fighting Equipment:** Use self-contained breathing apparatus and full protective clothing.**Extinguishing Media:** Use extinguishing media suited to burning materials.**Fire Fighting:** If a significant quantity of this product is involved in a fire, call the fire brigade.**Section 6 - Accidental Release Measures****Personal Precautions:** Use appropriate protective clothing.**Environmental Precautions:** Prevent spilled material from entering water ways. Avoid release to the environment.**Methods and Materials for Containment and Cleaning up:** For minor spills, clean up and absorb spills with inert material and place in waste containers, labelled for disposal. Contain in a secure location until disposal method is established. Dispose of waste safely. In the event of a major spill, prevent spillage from entering drains or water ways and call emergency services.**Section 7 - Handling and Storage****Handling:** Keep exposure to this product to a minimum, and minimise the quantities kept in work areas. Check Section 8 of this SDS for details of personal protective measures, and make sure that those measures are followed. The measures detailed below under "Storage" should be followed during handling in order to minimise risks to persons using the product in the workplace. Also, avoid contact or contamination of product with incompatible materials listed in Section 10.**Certified handler:** Not applicable**Tracking:** Not applicable**Storage:** Store below 25°C, in a dry well ventilated area, out of direct sunlight. Check packaging, there may be further storage instructions on the label.**Section 8 - Exposure Controls and Personal Protection****Occupational exposure limits:**

SWA Exposure Limits	TWA (mg/m ³)	STEL (mg/m ³)
Exposure limits have not been established for any of the significant ingredients in this product.		

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The SWA TWA exposure value is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. The STEL (Short Term Exposure Limit) is an exposure value that may be equalled (but should not be exceeded) for no longer than 15 minutes and should not be repeated more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The term "peak" is used when the TWA limit, because of the rapid action of the substance, should never be exceeded, even briefly.

The following Australian Standards will provide general advice regarding safety clothing and equipment:

Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Occupational Protective Clothing: **AS/NZS 4501** set 2008, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**.

No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

Engineering Controls: Normal room ventilation is sufficient.

Ventilation: Make sure that the work environment remains clean and that vapours and mists are minimised.

Eye Protection: Wear suitable protective glasses or goggles. Emergency eye wash facilities are also recommended in an area close to where this product is being used.

Skin Protection: Prevent skin contact by wearing impervious gloves, clothes and, preferably, apron. Make sure that all skin areas are covered.

Protective Material Types: We suggest that protective clothing be made from the following materials: rubber, PVC.

Respirator: In case of inadequate ventilation wear respiratory protection.

Safety deluge showers should, if practical, be provided near to where this product is being handled commercially.

Section 9 - Physical and Chemical Properties

Appearance:	Clear yellow liquid
Odour:	Mild odour
Odour threshold:	No data
pH:	No data
Melting Point/Freezing point:	Below 0°C
Initial boiling point and boiling range:	Approximately 100°C at 100kPa
Flash point:	No data
Flammability (solid, gas):	No data
Upper/lower flammability or explosive limits:	No data
Vapour pressure:	2.37 kPa at 20°C (water vapour pressure).
Vapour density:	No data
Relative density:	1.13 approximately
Solubility (ies):	Completely soluble in water
Auto-ignition temperature:	No data
Decomposition temperature:	No data
Viscosity:	No data

Section 10 - Stability and Reactivity

Reactivity: This product is unlikely to react or decompose under normal storage conditions. However, if you have any doubts, contact the supplier for advice on shelf life properties.

Conditions to Avoid: Protect this product from light. Store in the closed original container in a dry, cool, well ventilated area out of direct sunlight.

Incompatibilities: No particular Incompatibilities.

Fire Decomposition: Combustion forms carbon dioxide, and if incomplete, carbon monoxide and possibly smoke. Water is also formed. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death.

Section 11 - Toxicological Information

Acute toxicity:

Sulfadiazine: Oral LD50: 1500 mg/kg (mouse)

Trimethoprim: Oral LD50: 1500 to 1850 mg/kg bw (rat)

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Aspiration hazard: No data
Respiratory irritation: No data
Skin corrosion/irritation: Sulfadiazine: Irritating to the skin
Serious eye damage/ irritation: Sulfadiazine: Irritating to the eye
Respiratory or skin sensitisation: Sulfadiazine: Respiratory sensitisers, Contact sensitisers
Germ cell mutagenicity: No data
Carcinogenicity: No data
Reproductive toxicity: No data
Specific organ toxicity: Trimethoprim: Harmful to human target organs or systems/ Primary Organ: Bone/ NOEL was 2.5 mg/kg bw per day of trimethoprim
Narcotic effects: No data

Section 12 - Ecological Information

Aquatic: Sulfadiazine: Algal/ Microcystis aeruginosa (blue-green algae), 7 day EC50: 0.135 mg/l
Crustacean/ Daphnia magna (water flea): 48 hr EC50: 88000 ug/l (= 88 mg/l)
Terrestrial:
Sulfadiazine: Oral LD50: 1500 mg/kg (mouse)
Trimethoprim: Oral LD50: 1500 to 1850 mg/kg bw (rat)
Persistence and degradability: Sulfadiazine: ND
Bioaccumulative: Sulfadiazine: No
Mobility in soil: No data
Other adverse effects: No data

Section 13 - Disposal Considerations

Disposal: Dispose of product, packaging and waste at an approved landfill or equivalent facility. Avoid release to the environment.

Section 14 - Transport Information

UN Number: Not applicable
UN proper shipping name: Not applicable
Dangerous goods class and subsidiary risk: Not applicable
UN Packaging Group: Not applicable
Environmental hazards: Not applicable
Special precautions when transporting the substance: Not applicable

Section 15 - Regulatory Information

HSNO Approval number: HSR002198
ACVM number: A008058

Section 16 - Other Information

This SDS contains only safety-related information. For other data see product literature.

Acronyms:

CAS number	Chemical Abstracts Service Registry Number
SWA	Safe Work Australia
TWA	Time Weighted Average
STEL	Short Term Exposure Limit
UN Number	United Nations Number
NOAEL	No Observed Adverse Effect Level
LD50	Lethal Dose for 50% of test organisms
EC50	Median effective concentration

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THIS SDS SUMMARISES OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT AND HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST REVIEW THIS SDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE.

IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THIS COMPANY SO WE CAN ATTEMPT TO OBTAIN ADDITIONAL INFORMATION FROM OUR SUPPLIERS. OUR RESPONSIBILITY FOR PRODUCTS SOLD IS SUBJECT TO OUR STANDARD TERMS AND CONDITIONS, A COPY OF WHICH IS SENT TO OUR CUSTOMERS AND IS ALSO AVAILABLE ON REQUEST.

Please read all labels carefully before using product.

Date of preparation: November, 2020.

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