

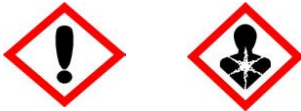
**Section 1 - Identification of Chemical Product and Company****Norbrook NZ Ltd**  
**KPMG Centre, 18 Viaduct Harbour Ave**  
**Auckland, New Zealand**

Freecall: 0800 224 022

**Trade Name:** Norflunix  
**Product Use:** A non-steroidal, anti-inflammatory, analgesic and antipyretic, with anti-prostaglandin effects, for use in horses, cattle, pigs and dogs.  
**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:** HSR002058  
**HSNO Hazard Classification:** 6.1D, 6.9B, 9.3C  
**GHS PICTOGRAM:**

**SIGNAL WORD:** Warning**HAZARD STATEMENT:**

H302: Harmful if swallowed.  
H373: May cause damage to organs through prolonged or repeated exposure.  
H433: Harmful to terrestrial vertebrates.

**PREVENTION:**

P102: Keep out of reach of children.  
P103: Read label before use.  
P264: Wash contacted areas thoroughly after handling.  
P270: Do not eat, drink or smoke when using this product.  
P260: Do not breathe mist/vapours.  
P273: Avoid release to the environment.

**RESPONSE:**

P101: If medical advice is needed, have product container or label at hand.  
P314: Get medical advice/attention if you feel unwell.  
P301 + P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
P330: Rinse mouth.

**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 |
|--------------------|------------|---------------|
| Flunixin meglumine | 42461-84-7 | 50 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. Under running water, remove contaminated clothing, shoes and leather goods (e.g. watchbands and belts) and completely decontaminate them before reuse or discard.

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**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.

**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 <sup>3</sup> ) | STEL (mg/m <sup>3</sup> ) |
|---|--------------------------|---------------------------|
| Exposure limits have not been established for any of the significant ingredients in this product. |                          |                           |

The ADI for Flunixin meglumine is set at 0.006mg/kg/day. The corresponding NOEL is set at 0.6mg/kg/day. ADI means Acceptable Daily Intake; NOEL means No-observable-effect-level. Data from Australian ADI List, June 2014.

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.

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**Skin Protection:** Prevent skin contact by wearing impervious gloves. 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

|  |  |
|--|--|
| <b>Appearance:</b>                                   | A clear colourless solution              |
| <b>Odour:</b>  | No data                                  |
| <b>Odour threshold:</b>                              | No data                                  |
| <b>pH:</b>   | 8.0-9.0                                  |
| <b>Melting Point/Freezing point:</b>                 | Approximately 0°C                        |
| <b>Initial boiling point and boiling range:</b>      | Approximately 100°C at 100kPa            |
| <b>Flash point:</b>                                  | No data                                  |
| <b>Flammability (solid, gas):</b>                    | No data                                  |
| <b>Upper/lower flammability or explosive limits:</b> | No data                                  |
| <b>Vapour pressure:</b>                              | 2.37 kPa at 20°C (water vapour pressure) |
| <b>Vapour density:</b>                               | As for water                             |
| <b>Relative density:</b>                             | 1.04                                     |
| <b>Solubility (ies):</b>                             | Completely soluble in water              |
| <b>Auto-ignition temperature:</b>                    | No data                                  |
| <b>Decomposition temperature:</b>                    | No data                                  |
| <b>Viscosity:</b>                                    | 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:** Flunixin meglumine: Oral LD50: 53-157 mg/kg (rat), 176-249 mg/kg (mouse)

**Aspiration hazard:** No data

**Respiratory irritation:** No data

**Skin corrosion/irritation:** No data

**Serious eye damage/ irritation:** No data

**Respiratory or skin sensitisation:** No data

**Germ cell mutagenicity:** No data

**Carcinogenicity:** No data

**Reproductive toxicity:** No data

**Specific organ toxicity:** No data

**Narcotic effects:** No data

### Section 12 - Ecological Information

**Aquatic:** Flunixin meglumine: EC50 9.2mg/L (96hr, trout), 46mg/L (96hr, bluegill), 25mg/L (48hr, Daphnia), 36-120mg/L (72, Algae)

**Terrestrial:** No data.

**Persistence and degradability:** No data

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**Bioaccumulative:** No data  
**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.

### 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:** HSR002058  
**ACVM number:** A007861

### Section 16 - Other Information

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

#### Acronyms:

|                   |  |
|-------------------|--|
| <b>CAS number</b> | Chemical Abstracts Service Registry Number |
| <b>SWA</b>        | Safe Work Australia                        |
| <b>TWA</b>        | Time Weighted Average                      |
| <b>STEL</b>       | Short Term Exposure Limit                  |
| <b>UN Number</b>  | United Nations Number                      |
| <b>LD50</b>       | Lethal Dose for 50% of test organisms      |

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.

## SAFETY DATA SHEET