

Nuflor®

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Section 1: Identification of the Substance and Supplier

Product name Nuflor

Liquid containing 26 - 36% florfenicol

Recommended useBroad spectrum antibacterial formulation for cattle and swine

Company details MSD Animal Health, 33 Whakatiki Street, Upper Hutt

Phone: 0800 800 543 Fax: 0800 808 100 Website: www.msd-animal-health.co.nz

Hours: 8 am - 5 pm, Mon - Fri

Emergency telephone 0800 764 766 (0800 POISON) 24 hours human health

0800 243 622 (0800 CHEMCALL) 24 hours

Date of preparation September 2011

Section 2: Hazards Identification

Hazard classifications 6.3A, 6.4A, 6.8A, 6.9B, 9.1A

Priority identifiers DANGER

Ecotoxic

Secondary identifier 6.3A May cause skin irritation

6.4A May cause eye irritation

6.8A May damage fertility or the unborn child from repeated oral exposure 6.9B May cause organ damage from repeated oral exposure at high doses

9.1A Very toxic to aquatic organisms with long-lasting effects

Risk & Safety Phrases R62 Possible risk of impaired fertility

R63 Possible risk of harm to the unborn child

R36/38 Irritating to eyes and skin

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the

aquatic environment

Section 3: Composition/Information on Ingredients

Chemical name	CAS number	Concentration
Florfenicol	73231-34-2	30%
N-Methyl-2-Pyrrolidone	872-50-4	20-30%
Propylene Glycol	57-55-6	10-20%

Section 4: First Aid Measures

Necessary first aid

measures

SKIN CONTACT In case of skin contact, while wearing protective gloves, carefully remove any contaminated clothing, including shoes, and wash skin thoroughly with soap and water. If irritation or symptoms occur or persist, consult

a doctor.

EYE CONTACT In case of eye contact, immediately rinse eyes thoroughly with plenty of water. If wearing contact lenses, remove only after initial rinse, and



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continue rinsing eyes for at least 15 minutes. If irritation occurs or persists, consult a doctor.

INGESTION Rinse mouth and drink a glass of water. Do not induce vomiting unless under the direction of a qualified medical professional or Poison Control Centre. If symptoms persist, consult a doctor.

INHALATION Remove to fresh air. If any trouble breathing, get immediate medical attention. Administer artificial respiration if breathing has ceased. If irritation or symptoms occur or persist, consult a doctor.

Required instructions For advice contact the National Poisons Centre 0800 POISON (0800 764 766)

or a doctor.

Notes for medical personnel Inhalation: remove to fresh air & provide oxygen if breathing is difficult

Section 5: Fire Fighting Measures

Type of hazard Not classified as flammable

Fire hazard properties Not applicable

Regulatory requirements Not applicable

Extinguishing media

and methods

Carbon dioxide (CO2), extinguishing powder or water spray

Hazchem code 3Z

Recommended protective

clothing

Wear full protective clothing and self-contained breathing apparatus (SCBA).

Section 6: Accidental Release Measures

Emergency procedures

Wear chemical resistant gloves and overalls, facemask or goggles. Prevent further spillage. Adsorb spilled product and place in sealable container for disposal. Wash down affected area with water plus detergent. Absorb and collect washings and place in the same sealable container for disposal. Seek advice from the local authority regarding disposal. Avoid contamination of any water source or soil with product or empty container.

Section 7: Handling and Storage

Precautions for safe

handling

Avoid contact with skin, eyes, and mucosa. Keep containers adequately sealed during material transfer, transport, or when not in use. See Section 8 (Exposure

Controls) for additional guidance.

Regulatory requirements Signage required where quantities greater than 100L are present.

Emergency response plan required where quantities greater than 100L are

present.

Handling practices Avoid contact with skin. Keep containers adequately sealed during material

transfer, transport, or when not in use.

Approved handlers

Not required

Conditions for safe

storage

Store in original container in a cool, dry, ventilated place away from direct heat or direct sunlight. Keep container sealed when not in use. Keep out of reach of

children.

Store site requirements

Store at 4°C to 25°C.

Packaging

PG III



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Section 8: Exposure Control/Personal Protection

Workplace exposure

N-Methyl-2-pyrrolidone TWA 25ppm (103 mg/m³) STEL 75ppm (309mg/m³)

standards

Propylene glycol (vapour & particulates) TWA 150ppm (474mg/m³)

Application in the

workplace

Ensure adequate ventilation. Keep container sealed when not in use.

Exposure standards outside the workplace

No TEL is set for this substance at this time

EEL Not applicable

Personal protection

Wear chemical resistant gloves, facemask or goggles.

Section 9: Physical and Chemical Properties

Appearance Clear, light yellow to straw coloured, somewhat viscous solution

Boiling Point 100°C

Melting/Softening point Not applicable

Vapour Pressure Not determined

Specific Gravity 1.0

Solubility (H₂O) Soluble

Percent Volatiles Not determined

Evaporation Rate Not determined

Section 10: Stability and Reactivity

Stability of the substance Stable under normal conditions.

Conditions to avoid Open flames and high temperatures.

Material to avoid Avoid strong acids, bases and oxidisers

Hazardous decomposition

products

Carbon oxides (COx)

Section 11: Toxicological Information

Acute effects for individual ingredients only

TEL No TEL is set for this substance at this time.

Chronic effects for individual ingredients only

Florfenicol: Toxicity studies with repeated doses were conducted in mice (13 weeks, rats (7, 14, 28 days and 13, 52 weeks) and dogs (14, 28 days and 13, 52 weeks). Toxic effects reported for rats were changes in haematologic parameters and atrophy of testes. For dogs, an increase in liver weights was observed. The dog was the most sensitive species and the NOEL was 1 mg/kg bw/day. [EMEA]

N-Methyl-2-Pyrrolidone: Moderately irritating to human skin with prolonged or repeated exposure [IUCLID 2000] N-Methyl-2-Pyrrolidone: Irritating to eyes [IUCLID 2000]

N-Methyl-2-Pyrrolidone: Male reproductive toxicity has been manifested as reductions in the male fertility index in a multigeneration study in rats. Female reproductive toxicity has been manifested as reductions in the female fecundity index in a multigeneration study in rats. Developmental toxicity has been manifested as resorptions, malformations, reduced litter size, reduced postnatal survival and reduced pup body weight in experimental animals [U.S EPA]



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Section 12: Environmental Information

Effects for individual ingredients only

AQUATIC Florfenicol: 48hr LC50 0.0955 mg/L (*Penaeus vannamei* - Whiteleg shrimp)

[ECOTOX]

Florfenicol: 96hr EC50 1.5 mg/L (Selenastrum capricornutum)

EEL No EEL is set for this substance at this time

Section 13: Disposal Considerations

Disposal information Disposal

Dispose of unused contents in a suitable landfill. Avoid contamination of any water

source or the environment with product or empty container.

Container Disposal

Dispose of empty container by burying in a suitable landfill or recycle.

Reference Current version of NZS 8409 Management of Agrichemicals

Section 14: Transport Information

Relevant information UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Florfenicol) MARINE POLLUTANT

Class 9 PG III Limited quantities: 5L

Maximum quantity for own agricultural use: 1000L

Other requirements Refer to Haznote.

Section 15: Regulatory Information

Regulatory status HSNO Approval Code: HSR002210

For a full controls see www.epa.govt.nz

ACVM registration number: A7819.

For conditions of registration see www.foodsafety.govt.nz

RESTRICTED VETERINARY MEDICINE

HSNO and ACVM

Signage: 100 Litres

controls

Emergency Plan: 100 Litres

Section 16: Other Information

Additional information Nuflor is a registered trademark.

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