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Version: 1.0

Safety Data Sheet Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations Date of Issue: 06/16/2016 According To Federal Register / Revision Date: 06/16/2016

SECTION 1: IDENTIFICATION

1.1. **Product Identifier** Product Form: Mixture Product Name: Noromycin 300 Product Code: NADA 141-143

1.2. Intended Use of the Product

Use of the Substance/Mixture: Noromycin 300 (Oxytetracycline) Injection is a sterile, pre-constituted solution of the broadspectrum antibiotic oxytetracycline dihydrate. For Use in Beef Cattle, Non-lactating Dairy Cattle, Calves, including Preruminating (Veal) Calves in the treatment of pneumonia and shipping fever complex associated with Pasteurella spp., and Histophilus spp., infectious bovine keratoconjunctivitis (pink eye) caused by Moraxella bovis, foot-rot and diphtheria caused by Fusobacterium necrophorum, bacterial enteritis (scours) caused by Escherichia coli, wooden tongue caused by Actinobacillus lignieresi, leptospirosis caused by Leptospira pomona, and wound infections and acute metritis caused by strains of staphylococcal and streptococcal organisms sensitive to oxytetracycline. Also, Noromycin 300 (Oxytetracycline) Injection is indicated for the control of respiratory disease in cattle at high risk of developing BRD associated with Mannheimia (Pasteurella) haemolytica. For use in swine in the treatment of bacterial enteritis (scours, colibacillosis) caused by Escherichia coli, pneumonia caused by Pasteurella multocida, and leptospirosis caused by Leptospira pomona. In sows Noromycin 300 is indicated as an aid in control of infectious enteritis (baby pig scours, colibacillosis) in suckling pigs caused by Escherichia coli. 1.3. Name, Address, and Telephone of the Responsible Party

Supplier Norbrook, Inc. 9401 Indian Creek Parkway - Ste. 680 Overland Park, KS 66210 Phone: 913 599 5777 Fax: 913 599 5766

Manufacturer

Norbrook Laboratories Ltd, Station Works, Newry, Co.Down, N.Ireland, BT35 6JP. Telephone No. +44 (0)28 3026 4435 +44 (0)28 3026 1721 Fax No. E-Mail: enquiries@norbrook.co.uk

1.4.	Emergency	Telephone Number				
Emerge	ncy Number		:	913 5	599	5777

Emergency Number

SECTION 2: HAZARDS IDENTIFICA	TION
2.1. Classification of the Substan	ice or Mixture
GHS-US Classification	
Eye Irrit. 2A H319	
Repr. 2 H361	
Full text of hazard classes and H-statem	ents : see section 16
2.2. Label Elements	
GHS-US Labeling	
Hazard Pictograms (GHS-US)	
Signal Word (GHS-US)	GHS07 GHS08 : Warning
Hazard Statements (GHS-US)	: H319 - Causes serious eye irritation. H361 - Suspected of damaging fertility or the unborn child.
Precautionary Statements (GHS-US)	 P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P264 - Wash hands, forearms, and other exposed areas thoroughly after handling. P280 - Wear protective gloves, protective clothing, and eye protection. P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+P313 - If exposed or concerned: Get medical advice/attention. P337+P313 - If eye irritation persists: Get medical advice/attention. P405 - Store locked up. P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations.
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2.3. Other Hazards

Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions.

2.4. Unknown Acute Toxicity (GHS-US)

No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Not applicable

3.2. Mixture

Name	Product Identifier	%	GHS-US classification	
2-Naphthacenecarboxamide, 4-(dimethylamino)- 1,4,4a,5,5a,6,11,12a-octahydro-3,5,6,10,12,12a - hexahydroxy-6-methyl-1,11-dioxo-, dihydrate, [4S-{4.alpha.,4a.alpha.,5.alpha., 5a.alpha.,6.beta.,12a.alpha.)]-	(CAS No) 6153-64-6 Proprietary		y Eye Irrit. 2A, H319 Repr. 2, H361	
1,3-Dioxolan-4-ylmethanol	(CAS No) 5464-28-8	Proprietary	Eye Irrit. 2A, H319	
Polyethylene glycol	(CAS No) 25322-68-3	Proprietary	STOT SE 3, H335	
Magnesium oxide (MgO)	(CAS No) 1309-48-4	Proprietary	Not classified	
Ethanolamine	(CAS No) 141-43-5	Proprietary	Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation:vapor), H332 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 2, H401 Aquatic Chronic 3, H412	

Full text of H-phrases: see section 16

The specific chemical identity and/or exact percentage of composition have been withheld as a trade secret [29 CFR 1910.1200] SECTION 4: FIRST AID MEASURES

4.1. Description of First-aid Measures

First-aid Measures General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label if possible).

First-aid Measures Inhalation: Remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists.

First-aid Measures After Skin Contact: Remove contaminated clothing. Gently wash with plenty of soap and water followed by rinsing with water for at least 15 minutes. Call a POISON CENTER or doctor/physician if you feel unwell. Wash contaminated clothing before reuse.

First-aid Measures After Eye Contact: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Obtain medical attention if irritation persists.

First-aid Measures After Ingestion: Do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER or doctor/physician.

4.2. Most Important Symptoms and Effects Both Acute and Delayed

Symptoms/Injuries: Causes serious eye irritation. Suspected of damaging fertility or the unborn child. Please refer to the package insert for more detailed information.

Symptoms/Injuries After Inhalation: May cause respiratory irritation.

Symptoms/Injuries After Skin Contact: May cause skin irritation.

Symptoms/Injuries After Eye Contact: Causes serious eye irritation. Symptoms may include: Redness, pain, swelling, itching, burning, tearing, and blurred vision.

Symptoms/Injuries After Ingestion: Ingestion is likely to be harmful or have adverse effects.

Chronic Symptoms: Suspected of damaging fertility or the unborn child.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If you feel unwell, seek medical advice (show the label where possible).

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SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: Use extinguishing media appropriate for surrounding fire.

Unsuitable Extinguishing Media: None known.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not flammable.

Explosion Hazard: Product is not explosive.

Reactivity: Hazardous reactions will not occur under normal conditions.

5.3. Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire. Under fire conditions, hazardous fumes will be present.

Firefighting Instructions: Use water spray or fog for cooling exposed containers. Prevent fire-fighting water from entering environment.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection. Hazardous Combustion Products: Carbon oxides (CO, CO₂). Nitrogen oxides.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Use only as directed. Avoid all contact with skin, eyes, or clothing. Avoid breathing vapor, mist, or spray. 6.1.1. For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

6.1.2. For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

6.2. Environmental Precautions

Avoid release to the environment.

6.3. Methods and Materials for Containment and Cleaning Up

For Containment: Contain and collect as any solid.

Methods for Cleaning Up: Absorb and/or contain spill with inert material, then place in suitable container. Clean up spills immediately and dispose of waste safely.

6.4. Reference to Other Sections

See Heading 8. Exposure controls and personal protection. For further information refer to section 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Precautions for Safe Handling: Contaminated sharps should be handled with care and discarded immediately or as soon as possible in containers that are closable, puncture-resistant, leak proof on sides and bottoms, and appropriately labeled. Contact your local health department for referral to a syringe disposal program. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations.

Storage Conditions: Store in a dry, cool and well-ventilated place. Store locked up. Keep container closed when not in use. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Do not freeze. Incompatible Products: Strong acids, strong bases, strong oxidizers.

Storage Temperature: 30 °C Max

7.3. Specific End Use(s)

Noromycin 300 (Oxytetracycline) Injection is a sterile, pre-constituted solution of the broad-spectrum antibiotic oxytetracycline dihydrate. For Use in Beef Cattle, Non-lactating Dairy Cattle, Calves, including Pre-ruminating (Veal) Calves in the treatment of pneumonia and shipping fever complex associated with Pasteurella spp., and Histophilus spp., infectious bovine keratoconjunctivitis (pink eye) caused by Moraxella bovis, foot-rot and diphtheria caused by Fusobacterium necrophorum, bacterial enteritis (scours) caused by Escherichia coli, wooden tongue caused by Actinobacillus lignieresi, leptospirosis caused by Leptospira pornona, and wound infections and acute metritis caused by strains of staphylococcal and streptococcal organisms sensitive to oxytetracycline. Also, Noromycin 300 (Oxytetracycline) Injection is indicated for the control of respiratory disease in

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters 8.1.

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), or OSHA (PEL).

Magnesium (oxide (MgO) (1309-48-4)		
USA ACGIH	ACGIH TWA (mg/m ³)	10 mg/m ³ (inhalable fraction)	
USA ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen	
USA IDLH	US IDLH (mg/m ³)	750 mg/m ³ (fume)	
USA OSHA	OSHA PEL (TWA) (mg/m ³)	15 mg/m ³ (fume, total particulate)	
Ethanolamin	e (141-43-5)		
USA ACGIH	ACGIH TWA (ppm)	3 ppm	
USA ACGIH	ACGIH STEL (ppm)	6 ppm	
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	8 mg/m ³	
USA NIOSH	NIOSH REL (TWA) (ppm)	3 ppm	
USA NIOSH	NIOSH REL (STEL) (mg/m ³)	15 mg/m ³	
USA NIOSH	NIOSH REL (STEL) (ppm)	6 ppm	
USA IDLH	US IDLH (ppm)	30 ppm	
USA OSHA	OSHA PEL (TWA) (mg/m ³)	6 mg/m ³	
USA OSHA	OSHA PEL (TWA) (ppm)	3 ppm	
Polyethylene	e glycol (25322-68-3)		
USA AIHA	WEEL TWA (mg/m ³)	10 mg/m ³ (MW>200, aerosol)	

8.2. **Exposure Controls**

Appropriate Engineering Controls

: Ensure adequate ventilation, especially in confined areas. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed.

Personal Protective Equipment

: Avoid all unnecessary exposure. Gloves. Safety glasses. Protective clothing.



Materials for Protective Clothing Hand Protection Eye Protection Skin and Body Protection Respiratory Protection

: Chemically resistant materials and fabrics. :

Wear chemically resistant protective gloves. Chemical safety goggles. :

- Wear suitable protective clothing. Wash contaminated clothing before reuse. 2
- In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure : levels are not known wear approved respiratory protection.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Phys	sical and Chemical Properties	
Physical State	: Liquid	
Appearance	: Clear solution	
Odor	: No data available	
Odor Threshold	: No data available	
pH	: No data available	
Evaporation Rate	: No data available	
Melting Point	: No data available	
Freezing Point	: No data available	
Boiling Point	: No data available	
Flash Point	: No data available	
Auto-ignition Temperature	: No data available	
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Noromycin 300 Safety Data Sheet According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulation : No data available **Decomposition Temperature** : No data available Flammability (solid, gas) : No data available Vapor Pressure Relative Vapor Density at 20°C : No data available : No data available **Relative Density** : No data available Solubility : No data available Partition Coefficient: N-Octanol/Water : No data available Viscosity Other Information No additional information available 9.2. SECTION 10: STABILITY AND REACTIVITY Reactivity: Hazardous reactions will not occur under normal conditions. 10.1. 10.2. Chemical Stability: Stable at standard temperature and pressure. Possibility of Hazardous Reactions: Hazardous polymerization will not occur. 10.3. Conditions to Avoid: Direct sunlight, extremely high or low temperatures, and incompatible materials. 10.4. Incompatible Materials: Strong acids, strong bases, strong oxidizers. 10.5. Hazardous Decomposition Products: Carbon oxides (CO, CO2). Nitrogen oxides. 10.6. SECTION 11: TOXICOLOGICAL INFORMATION Information on Toxicological Effects 11.1. Acute Toxicity: Not classified Ethanolamine (141-43-5) 1720 mg/kg LD50 Oral Rat LD50 Dermal Rabbit 1025 mg/kg 11.00 mg/l/4h ATE (Vapors) Polyethylene glycol (25322-68-3) 47000 mg/kg LD50 Oral Rat > 20 ml/kg LD50 Dermal Rabbit Skin Corrosion/Irritation: Not classified Serious Eye Damage/Irritation: Causes serious eye irritation. Respiratory or Skin Sensitization: Not classified Germ Cell Mutagenicity: Not classified Carcinogenicity: Not classified Reproductive Toxicity: Suspected of damaging fertility or the unborn child. Specific Target Organ Toxicity (Single Exposure): Not classified Specific Target Organ Toxicity (Repeated Exposure): Not classified Aspiration Hazard: Not classified Symptoms/Injuries After Inhalation: May cause respiratory irritation. Symptoms/Injuries After Skin Contact: May cause skin irritation. Symptoms/Injuries After Eye Contact: Causes serious eye irritation. Symptoms may include: Redness, pain, swelling, itching, burning, tearing, and blurred vision. Symptoms/Injuries After Ingestion: Ingestion is likely to be harmful or have adverse effects. Chronic Symptoms: Suspected of damaging fertility or the unborn child. SECTION 12: ECOLOGICAL INFORMATION Toxicity 12.1. Ethanolamine (141-43-5) LCS0 Fish 1 227 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through]) 65 mg/l (Exposure time: 48 h - Species: Daphnia magna) EC50 Daphnia 1 LC50 Fish 2 3684 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static]) ErC50 (Algae) 2.5 mg/l 12.2. Persistence and Degradability No additional information available 12.3. **Bioaccumulative Potential** Ethanolamine (141-43-5) -1.91 (at 25 °C) Log Pow 05/15/2016 EN (English US) 5/7

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Mobility in Soil No additional inform	ation available
12.5. Other Adverse Effects	
Other Information	: Avoid release to the environment.
ECTION 13: DISPOSAL CONSIDERATIONS	5
13.1. Waste Treatment Methods	
Waste Disposal Recommendations: Dispose of v	waste material in accordance with all local, regional, national, and international
regulations.	
Additional Information: Contaminated sharps sl	hould be handled with care and discarded immediately or as soon as possible in
	leak proof on sides and bottoms, and appropriately labeled. Contact your local
health department for referral to a syringe dispo ECTION 14: TRANSPORT INFORMATION	
	ulated for transport
	ulated for transport
	ulated for transport
SECTION 15: REGULATORY INFORMATIO	N
15.1. US Federal Regulations	
Noromycin 300 SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard
SARA SECTOR SIL/SIL HALANG CLUSSES	Delayed (chronic) health hazard
Magnesium oxide (MgO) (1309-48-4)	
Listed on the United States TSCA (Toxic Substance	ces Control Act) inventory
Ethanolamine (141-43-5)	
Listed on the United States TSCA (Toxic Substand	es Control Act) inventory
Polyethylene glycol (25322-68-3)	
Listed on the United States TSCA (Toxic Substand	ces Control Act) inventory
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15.2. US State Regulations	
15.2. US State Regulations Magnesium oxide (MgO) (1309-48-4)	
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Safety Data Sheet According to Federal Register

ccording to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

H227	Combustible liquid
H302	Harmful if swallowed
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H319	Causes serious eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation
H361	Suspected of damaging fertility or the unborn child
H401	Toxic to aquatic life
H412	Harmful to aquatic life with long lasting effects

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

SDS US (GHS HazCom)

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