

SECTION 1 Identification

1.1. GHS Product identifier

Product form : Mixture
Trade name : Tylosin 100

1.2. Other means of identification

Other means of identification : Registered product - DIN 02472058

1.3. Recommended use of the chemical and restrictions on use

Recommended use : Medicated Feed
Restrictions on use : VETERINARY USE ONLY

1.4. Supplier's details

Bio Agri Mix LP
P.O. Box 399
Mitchell, ON, N0K 1N0
Canada
T 519-348-9865

1.5. Emergency phone number

Emergency number : CANUTEC: 1-613-996-6666 (transport)

SECTION 2 Hazard identification

2.1. Classification of the substance or mixture

Classification (GHS CA)

Serious eye damage/eye irritation, Category 2A
Respiratory sensitization, Category 1

Causes serious eye irritation.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin sensitization, Category 1

May cause an allergic skin reaction.

2.2. GHS label elements, including precautionary statements

GHS CA labelling

Hazard pictograms (GHS CA)



Signal word (GHS CA)

: Danger

Hazard statements (GHS CA)

: May cause an allergic skin reaction
Causes serious eye irritation
May cause allergy or asthma symptoms or breathing difficulties if inhaled

Precautionary statements (GHS CA)

: Wash hands, forearms and face thoroughly after handling.
Avoid breathing dust.
Contaminated work clothing should not be allowed out of the workplace.
In case of inadequate ventilation wear respiratory protection.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice or attention.

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IF INHALED: Remove person to fresh air and keep comfortable for breathing.
If experiencing respiratory symptoms: Call a POISON CENTER or a doctor.
IF ON SKIN: Wash with plenty of water.
If skin irritation or rash occurs: Get medical advice or attention.
Specific treatment (see supplemental first aid instruction on this label).
Take off contaminated clothing and wash it before reuse.
Wear protective gloves, protective clothing, eye protection, face protection, and hearing protection.
Dispose of contents and/or container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulations.

Supplementary information : Exempt - Registered product - (DIN 02472058).

This product is not subject to the Hazardous Products Act (HPA) Part II (Hazardous Products) as per paragraph 12(j); Schedule 1 (Non-Application of Part II).

This restriction states that Part II does not apply in respect of the sale or importation of anything listed in Schedule 1 which includes any pest control product as defined in subsection 2(1) of the Pest Control Products Act, any explosive as defined in section 2 of the Explosives Act, any cosmetic, device, drug or food, as defined in section 2 of the Food and Drugs Act, any consumer product as defined in section 2 of the Canada Consumer Product Safety Act and any wood or product made of wood.

2.3. Other hazards which do not result in classification

No additional information available

SECTION 3 Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Chemical name / Synonyms	Product identifier	%
Tylosin	Tylosine / N,N-Tylosine	CAS-No.: 1401-69-0	10 - 30*
Disodium carbonate	Sodium carbonate Sodium carbonate / Carbonic acid, disodium salt / Soda ash / Sodium carbonate (2:1) / Sodium carbonate, anhydrous / Carbonic acid sodium salt (1:2)	CAS-No.: 497-19-8	7 - 13*

*Contains fixed concentration

Comments : CANADA GHS: The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with the amended HPR as of December 2022.

SECTION 4 First-aid measures

4.1. Description of necessary first-aid measures

First-aid measures after inhalation : IF INHALED: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a poison center or a doctor.

First-aid measures after skin contact : IF ON SKIN: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical help.

First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice and attention.

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First-aid measures after ingestion	: Do not induce vomiting. If vomiting occurs have person lean forward. Never give anything by mouth to an unconscious person. Call a poison center or a doctor if you feel unwell.
First-aid measures general	: If you feel unwell, seek medical advice (show the label where possible). Medical personnel should be made aware of substance(s) involved and take measures for self protection. Show this safety data sheet to the doctor in attendance. Avoid contact with skin and eyes. Keep out of the reach of children.

4.2. Most important symptoms/effects, acute and delayed

Symptoms/effects after inhalation	: Prolonged inhalation may be harmful. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Symptoms/effects after skin contact	: Prolonged or repeated contact may dry skin and cause irritation. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Causes serious eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.
Symptoms/effects after ingestion	: May cause stomach distress, nausea or vomiting.

4.3. Indication of immediate medical attention and special treatment needed, if necessary

Other medical advice or treatment	: Symptoms may be delayed. Treat symptomatically.
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SECTION 5 Fire-fighting measures

5.1. Suitable extinguishing media

Suitable extinguishing media	: Treat for surrounding material.
Unsuitable extinguishing media	: Do not use a water jet since it may cause the fire to spread.

5.2. Specific hazards arising from the chemical

Fire hazard	: During fire, gases hazardous to health may be formed. In case of fire or explosion do not breathe fumes.
Explosion hazard	: No direct explosion hazard.
Hazardous decomposition products in case of fire	: May include and are not limited to: oxides of carbon. Nitrogen oxides. Ammonia.

5.3. Special protective actions for fire-fighters

Firefighting instructions	: In case of fire: stop leak if safe to do so. Do not enter fire area without proper protective equipment, including respiratory protection. Move containers from fire area if it can be done without personal risk.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: In the event of a significant spillage : Notify authorities if product enters sewers or public waters. Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.
Environmental precautions	: Avoid release to the environment.

6.2. Methods and materials for containment and cleaning up

For containment	: Stop leaks if it can be done without personal risk. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
Methods for cleaning up	: Soak up with inert absorbent material (for example sand, sawdust, a universal binder, silica gel). Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal. Clean contaminated surfaces with an excess of water. Minimise generation of dust.
Other information	: This material and its container must be disposed of in a safe way, and as per local legislation.

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According to SOR/2015-17, Hazardous Products Regulations (HPR) (amended 2022)

For further information refer to section 13

SECTION 7 Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	: Avoid contact with skin and eyes. Avoid breathing dust. Do not taste or swallow. Ensure good ventilation of the work station. Wear personal protective equipment. Handle and open container with care.
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.
Additional hazards when processed	: Not expected to present a significant hazard under anticipated conditions of normal use.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	: Keep out of reach of children. Store tightly closed in a dry, cool and well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).
Packaging materials	: Store always product in container of same material as original container.

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls	: Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.
Environmental exposure controls	: Avoid release to the environment.

8.3. Individual protection measures, such as personal protective equipment (PPE)

Hand protection:

Wear protective gloves. Confirm with a reputable supplier first.

Eye protection:

Wear safety glasses with side shields (or goggles).

Skin and body protection:

Wear suitable protective clothing. As required by employer code.

Respiratory protection:

Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. Respirator should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134), CAN/CSA-Z94.4 and ANSI's standard for respiratory protection (Z88.2). Wear respiratory protection

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SECTION 9 Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state	: Solid
Appearance	: Granular.
Colour	: Medium grey
Odour	: Characteristic
Odour threshold	: No data available
pH	: 6.9
Relative evaporation rate (butylacetate=1)	: No data available
Relative evaporation rate (ether=1)	: No data available
Melting point	: No data available
Freezing point	: Not applicable
Boiling point	: No data available
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20°C	: No data available
Relative density	: No data available
Solubility	: Water: Low
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: Not applicable
Explosive properties	: Not explosive.
Oxidising properties	: Not oxidising.
Explosive limits	: Not applicable
Particle characteristics	: No data available

9.2. Data relevant with regard to physical hazard classes (supplemental)

Bulk density	: 1.056 g/mL
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SECTION 10 Stability and reactivity

Reactivity	: The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No dangerous reactions known under normal conditions of use.
Conditions to avoid	: Keep away from heat and direct sunlight. Do not mix with other chemicals.
Incompatible materials	: Not corrosive to SAE 1020 Steel or non-clad Aluminum based on test data (UN Manual of Tests and Criteria, Part III, Section 37.1 -Corrosion to metals). Strong oxidizing agents.
Hazardous decomposition products	: May include and are not limited to: oxides of carbon. Nitrogen oxides. Ammonia.

SECTION 11 Toxicological information

11.1. Likely routes of exposure

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified.

Tylosin 100	
Unknown acute toxicity (GHS CA)	Not applicable.
Tylosin (1401-69-0)	
LD50 oral rat	> 5 g/kg (Source: NLM_CIP)

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According to SOR/2015-17, Hazardous Products Regulations (HPR) (amended 2022)

Disodium carbonate (497-19-8)	
LD50 oral rat	4090 mg/kg (Source: NLM_HSDB)
LD50 dermal rabbit	> 2000 mg/kg (Source: ECHA)
LC50 Inhalation - Rat	2300 mg/m ³ (Exposure time: 2 h Source: ECHA_API)
ATE CA (oral)	4090 mg/kg bodyweight
ATE CA (vapours)	2.3 mg/l/4h
ATE CA (dust,mist)	2.3 mg/l/4h

Skin corrosion/irritation : Not classified
pH: 6.9

Tylosin 100	
Additional information	This product may be irritating to human skin and mucous membranes. When mixing and handling TYLOSIN 100, avoid inhalation, oral exposure and direct contact with skin or eyes May cause an allergic skin reaction.

Serious eye damage/irritation : Causes serious eye irritation.
pH: 6.9

Respiratory or skin sensitization : This product may be irritating to human skin and mucous membranes. When mixing and handling TYLOSIN 100, avoid inhalation, oral exposure and direct contact with skin or eyes
May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

Likely routes of exposure : Skin and eyes contact. Ingestion. Inhalation.

Symptoms/effects after inhalation : Prolonged inhalation may be harmful. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Symptoms/effects after skin contact : Prolonged or repeated contact may dry skin and cause irritation. May cause an allergic skin reaction.

Symptoms/effects after eye contact : Causes serious eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Symptoms/effects after ingestion : May cause stomach distress, nausea or vomiting.

SECTION 12 Ecological information

12.1. Toxicity

Ecology - general : See below for route-specific details.

Hazardous to the aquatic environment, short-term (acute) : Not classified.

Hazardous to the aquatic environment, long-term (chronic) : Not classified

Disodium carbonate (497-19-8)	
LC50 - Fish [1]	300 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static] Source: EPA)
LC50 - Fish [2]	310 – 1220 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: EPA)
EC50 - Crustacea [1]	265 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 - Crustacea [2]	200 – 227 mg/l Test organisms (species): Ceriodaphnia sp.

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According to SOR/2015-17, Hazardous Products Regulations (HPR) (amended 2022)

12.2. Persistence and degradability

Tylosin 100	
Persistence and degradability	Rapidly degradable
Tylosin (1401-69-0)	
Persistence and degradability	Rapidly degradable
Disodium carbonate (497-19-8)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)

12.3. Bioaccumulative potential

Disodium carbonate (497-19-8)	
Bioaccumulative potential	Not bioaccumulative.
BCF - Fish [1]	(no bioaccumulation)

12.4. Mobility in soil

Disodium carbonate (497-19-8)	
Surface tension	No data available in the literature
Ecology - soil	Low potential for adsorption in soil.

12.5. Other adverse effects

Ozone	: Not classified
Fluorinated greenhouse gases	: No

SECTION 13 Disposal considerations

Waste treatment methods	: Dispose of the material collected according to regulations.
Sewage disposal recommendations	: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling, disposal or collection. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

SECTION 14 Transport information

In accordance with TDG

General information: Not corrosive to SAE 1020 Steel or non-clad Aluminum based on test data (UN Manual of Tests and Criteria, Part III, Section 37.1 -Corrosion to metals).

TDG	
14.1. UN Number	
Not regulated for transport	
14.2. UN Proper Shipping Name	
Not regulated	

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TDG	
14.3. Transport hazard class(es)	
	Not regulated
14.4. Packing group, if applicable	
	Not regulated
14.5. Environmental hazards	
	Not regulated
No supplementary information available	

14.6. Special precautions for user

TDG

Not regulated

14.7. Transport in bulk according to Annex II of MARPOL 73/78⁹ and the IBC Code¹⁰

Not applicable

SECTION 15 Regulatory information

All components of this product are present on DSL, except for:

Tylosin (1401-69-0)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

SECTION 16 Other Information

Issue date : 07/02/2025

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According to SOR/2015-17, Hazardous Products Regulations (HPR) (amended 2022)

Other information

: Exempt - Registered product - (DIN 02472058).

This product is not subject to the Hazardous Products Act (HPA) Part II (Hazardous Products) as per paragraph 12(j); Schedule 1 (Non-Application of Part II).

This restriction states that Part II does not apply in respect of the sale or importation of anything listed in Schedule 1 which includes any pest control product as defined in subsection 2(1) of the Pest Control Products Act, any explosive as defined in section 2 of the Explosives Act, any cosmetic, device, drug or food, as defined in section 2 of the Food and Drugs Act, any consumer product as defined in section 2 of the Canada Consumer Product Safety Act and any wood or product made of wood.

VETERINARY USE ONLY

CAUTIONS: Do not use in replacement, breeding, or lactating cattle. Not to be used in feeds containing pellet binding agents with the exception of Lignosol (4%) and Agri-Colloid (0.3%). Do not use in any supplement, concentrate or complete feed containing bentonite. Not for use in thixotropic liquid supplements. When treating swine dysentery or necrotic enteritis, the diagnosis should be re-determined in cases of lack of response within 3 to 5 days of treatment commencement. When treating porcine proliferative enteropathy (PPE) or ileitis, the diagnosis should be confirmed by a veterinarian when results are not satisfactory.

WARNINGS: Swine treated concurrently with this drug in complete feed and with tylosin tartrate in drinking water must not be slaughtered for use in food for at least 48 hours after the latest treatment with tylosin in drinking water. No withdrawal period is required when swine are treated with this drug at a level of 110 grams of tylosin per 1,000 kg of complete feed. No withdrawal periods are required for beef cattle and broiler chickens when treated according to the label. Do not use in laying hens. This product may be irritating to human skin and mucous membranes. When mixing and handling TYLOSIN 40, avoid inhalation, oral exposure and direct contact with skin or eyes. Use protective clothing, impervious gloves and a dust mask. Keep out of reach of children

ADVERSE REACTIONS: In rare cases, edema of the rectal mucosa and mild anal protrusion with pruritis, erythema and diarrhea have been reported in pigs consuming this drug in feed. For an updated SDS, please contact the supplier or manufacturer listed on the first page of the document.

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