
SAFETY DATA SHEET

Section 1: IDENTIFICATION of CHEMICAL PRODUCT and COMPANY

Product Identifier:	Streptosulcin Forte Calf Scour Boluses
Product Code:	60370 (100s)
Recommended Use:	Boluses for the treatment of bacterial enteritis in the calf.
Restrictions on Use:	For animal treatment only.
Company Identification:	Jurox Pty Limited
Address:	85 Gardiner Street, Rutherford, NSW 2320, Australia
Email:	jenq@jurox.com.au
Customer Centre:	1800 023 312
National Poisons Information Centre:	13 1126 (Australia-wide)
Emergency Telephone Number:	1800 023 312 (9am – 5pm, Monday to Friday)

Section 2: HAZARDS IDENTIFICATION

Hazard Classifications: This product has been assessed according to GHS and is classified as follows:

GHS Category	Hazard code	Hazard Statement
Acute Toxicity (Oral) Category 4	H302	Harmful if swallowed
Skin Corrosion/Irritation Category 2	H315	Causes skin irritation
Eye Irritation Category 2A	H319	Causes serious eye irritation
Respiratory Sensitizer Category 1	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
Skin Sensitizer Category 1	H317	May cause an allergic skin reaction
STOT - SE Category 3 (respiratory tract irritation)	H335	May cause respiratory irritation

Signal word: DANGER

GHS Pictograms:



Health hazard Exclamation mark

Precautionary statements:Prevention

- P261 Avoid breathing dusts.
P264 Wash hands thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing should not be allowed out of the workplace.
P363 Wash contaminated clothing before reuse.
P280 Wear protective gloves and eye protection.
P285 In case of inadequate ventilation wear respiratory protection.

Response

- P301 + P312 IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell.
P330 Rinse mouth.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
P362 Take off contaminated clothing and wash before reuse.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 If eye irritation persists: Get medical advice/attention.
P304 + P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTRE or doctor/physician.

Storage

- P405 Store locked up.

Disposal

- P501 Dispose of unused product and empty container by wrapping in paper and putting in garbage.

Section 3: COMPOSITION / INFORMATION on INGREDIENTS

INGREDIENT	CAS No.	CONTENT
Sulfadiazine	68-35-9	34%
Sulfadimidine	57-68-1	34%
Dihydrostreptomycin sulfate	5490-27-7	6.6 %
Thiamine hydrochloride	67-03-8	< 1%
Hyoscine methobromide	155-41-9	< 1%
Ingredients not contributing to the hazards	-	20 - 30%

Section 4: FIRST AID MEASURES

General Information: Consult the National Poisons Centre on 13 1126 or a doctor immediately in every case of suspected chemical poisoning. Never give fluids or induce vomiting if a patient is unconscious or convulsing regardless of cause of injury. If medical advice/attention is needed, have this SDS, product container or label at hand.

Symptoms and Effects of Exposure: Ingestion of large quantities may lead to nausea, vomiting and diarrhoea. Sensitisation reactions may occur in susceptible individuals.

Inhalation: If irritation occurs, contact a Poisons Information Centre, or call a doctor. Remove source of contamination or move victim to fresh air. If breathing is difficult, oxygen may be beneficial if administered by trained personnel, preferably on a doctor's advice.

Ingestion: If swallowed do NOT induce vomiting. Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. Never give liquid to a person showing signs of being sleepy

or with reduced awareness; i.e. becoming unconscious. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.

Skin: If skin contact occurs, wash affected area thoroughly with plenty of soap and water. If skin irritation or rash occurs, get medical advice/attention.

Eye: If eye contact occurs, rinse cautiously with water for at least 20 minutes. Continue rinsing. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. If eye irritation persists, get medical advice/attention.

Recommended First Aid Facilities: Ready access to running water and soap is required. Accessible eyewash is required.

Advice to Doctor: Treat symptomatically.

Section 5: FIRE FIGHTING MEASURES

Flash Point: No data. Not flammable. Not combustible.

Hazardous Combustion Products: If involved in a fire, may emit noxious and irritant fumes.

Extinguishing Media: There is no restriction on the type of extinguisher which may be used. Use extinguishing media suitable for surrounding area.

Protective Equipment: Protective gloves and breathing apparatus.

HAZCHEM Code: None specified.

Section 6: ACCIDENTAL RELEASE MEASURES

Spills and Disposal: This product is sold in small packages, and the accidental release from one of these is not usually a cause for concern. For small spills, clean up spilled product then wipe area and put empty container in garbage. Although no special protective clothing is normally necessary because of occasional minor contact with this product, it is good practice to wear impermeable gloves when handling chemical products. For large spills, exclude non-essential people from the area. Prevent spillage from entering drains or water courses and call emergency services.

Protective Clothing: For appropriate personal protective equipment see section 8.

Environmental Precautions: Prevent from entering drains, waterways or sewers. If spill does enter waterways contact local authority.

Section 7: HANDLING AND STORAGE

Handling: Avoid contact with skin, eyes and inhalation of dusts. Use personal protective equipment as required. Do not eat, drink or smoke while handling product.

Storage: Keep out of reach of children. Store below 30°C (room temperature), away from foodstuffs. Protect from light.

Other Information: Always read the label before use. See label for further information on handling and storage.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

This SDS describes personal protective measures relating to long term industrial and manufacturing exposure and emergency situations, such as accidents and spills. See product label for personal protective measures during normal use of the marketed product.

Exposure Limits: No exposure limits have been assigned for this product or its ingredients.

Engineering Controls: No special ventilation requirements are normally necessary for this product. However make sure that the work environment remains clean and that dusts are minimised.

Personal Protective Equipment (PPE):

Eye protection: Protective glasses or goggles are recommended when bulk quantities of this product are being handled.

Skin protection: When handling bulk quantities, prevent skin contact by wearing chemical protective gloves e.g. PVC.

Respiratory protection: Not required for the normal use of this product.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	White bolus with break-line on one side	Upper / Lower Flammability or Explosive Limits:	Not available
Odour:	Not available	Vapour Pressure:	Not applicable
Odour Threshold:	Not available	Vapour Density:	Not applicable
pH:	Not applicable	Relative Density:	Not applicable
Melting Point / Freezing point:	Not available	Solubility in Water:	Disintegrates in water
Initial Boiling Point and Boiling Range:	Not applicable	Partition Coefficient:	Not available
Flashpoint:	Not available	Auto-Ignition Temperature:	Not available
Evaporation Rate:	Not applicable	Decomposition Temperature:	Not available
		Viscosity:	Not applicable

Section 10: STABILITY AND REACTIVITY

Reactivity: This product is unlikely to react or polymerise under normal storage conditions.

Stability: When stored appropriately this product should show no significant degradation within the expiry period shown on the label.

Conditions to Avoid: Elevated temperatures and/or direct sunlight.

Incompatible Materials: Oxidising agents.

Hazardous Decomposition Products: No data available.

Section 11: TOXICOLOGICAL INFORMATION

Signs & Symptoms of Exposure: Ingestion of large quantities may lead to nausea, vomiting and diarrhoea. Sensitisation reactions may occur in susceptible individuals.

Medical Conditions Generally Aggravated by Exposure: None known.

Acute Toxicity:

Ingestion: No data for the mixture is available. Based on available data for the ingredients, the mixture has a classification of **Acute Toxicity (Oral) Category 4**.

Sulfadiazine	Oral (mouse) LD ₅₀ : 1500 mg/kg
Sulfadimidine	Oral (mouse) LD ₅₀ : 50,000 mg/kg
Dihydrostreptomycin sulfate	Oral (mouse) LD ₅₀ : > 600 mg/kg
Thiamine hydrochloride	Oral (rat) LD ₅₀ : > 3710 mg/kg
Hyoscine methobromide	Oral (mouse) LD ₅₀ : 619 mg/kg

Inhalation: No data for the mixture is available. Based on available data for the ingredients, the mixture is not considered to be acutely toxic by the inhalation route.

Dermal: No data for the mixture is available. Based on available data for the ingredients, the mixture is not considered to be acutely toxic by the dermal route.

Skin Corrosion / Irritation: No data for the mixture is available. Based on available data for the ingredients, the mixture has a classification of **Skin Corrosion/Irritation Category 2**. Sulfadiazine and thiamine hydrochloride are known skin irritants.

Serious Eye Damage / Irritation: No data for the mixture is available. Based on available data for the ingredients, the mixture has a classification of **Eye Irritation Category 2A**. Sulfadiazine and thiamine hydrochloride are known eye irritants.

Respiratory or Skin Sensitisation: No data for the mixture is available. Based on available data for the ingredients, the mixture is classified as **Respiratory Sensitizer Category 1** and **Skin Sensitizer Category 1**. Sulfadiazine is a known respiratory and contact (skin) sensitizer. Dihydrostreptomycin is a known contact (skin) sensitizer.

Germ Cell Mutagenicity: No data for the mixture is available. Based on available data for the ingredients, the mixture is not considered to be mutagenic.

Carcinogenicity: No data for the mixture is available. Based on available data for the ingredients, the mixture is not considered to be carcinogenic.

Reproductive Toxicity: No data for the mixture is available. Based on available data for the ingredients, the mixture is not considered to be a reproductive toxicant. However, sulfonamides are known to cross the placental barrier and to be excreted in the breast milk. They may produce adverse effects in the foetus / embryo and newborn, including loss of certain white blood cells causing immune function deficiency, anaemia, jaundice and kernicterus.

STOT: Single exposure: No data for the mixture is available. Based on available data for the ingredients, the mixture is classified as **STOT - SE Category 3 (respiratory tract irritation)**. Sulfadiazine and thiamine hydrochloride are known to cause respiratory tract irritation.

STOT: Repeat exposure: No data for the mixture is available. Based on available data for the ingredients, the mixture is not considered to be a specific target organ toxicant after repeat exposure.

Aspiration hazard: No data available.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity: No data for the mixture is available. Based on available data for the ingredients, the mixture is not considered to be toxic to the environment.

Fish

Sulfadiazine: LC₅₀ (96h): 4033 mg/L;
Sulfadimidine: LC₅₀ (96h): 690 mg/L;
Dihydrostreptomycin sulphate: No data;
Thiamine hydrochloride: LC₅₀ (96h): 49,762 mg/L;
Hyoscine methobromide: LC₅₀ (96h): 273 mg/L.

Crustacea

Sulfadiazine: EC₅₀ (48h): 88 mg/L;
Sulfadimidine: No data;
Dihydrostreptomycin sulphate: No data;
Thiamine hydrochloride: No data;
Hyoscine methobromide: No data.

Algae and other aquatic plants

Sulfadiazine: EC₅₀ (7 day): 0.135 mg/L;
Sulfadimidine: NOEC (72h): 1mg/L;
Dihydrostreptomycin sulphate: No data;
Thiamine hydrochloride: No data;
Hyoscine methobromide: EC₅₀ (96h): 84 mg/L.

Ingredient	Persistence: Water/Soil	Persistence: Air	Bioaccumulation potential	Mobility in soil
Sulfadiazine	HIGH	HIGH	LOW (LogKOW = -0.09)	LOW (KOC = 188.9)
Sulfadimidine	HIGH	HIGH	LOW (LogKOW = 0.89)	LOW (KOC = 495.6)
Dihydrostreptomycin sulfate	No data	No data	No data	No data
Thiamine hydrochloride	HIGH	HIGH	LOW (LogKOW = -1.78)	LOW (KOC = 87.51)
Hyoscine methobromide	HIGH	HIGH	LOW (LogKOW = -0.58)	LOW (KOC = 78.2)

Section 13: DISPOSAL INFORMATION

Product Disposal: Dispose of product only by using according to label or at an approved landfill.

Container Disposal: Dispose of container by wrapping with paper and putting in garbage.

Section 14: TRANSPORT INFORMATION

Dangerous Goods Classification: Not classed as a Dangerous Good for transport purposes by road, sea or air.

Section 15: REGULATORY INFORMATION

Poison Schedule (SUSMP): S4

APVMA Registration No: 36323

AICS: All of the significant ingredients in this formulation are compliant with NICNAS regulations.

Section 16: OTHER INFORMATION

This information is based on data believed by Jurox Pty Limited to be accurate at the time of writing but is subject to change without notice. It is given in good faith, but no warranty expressed or implied is made as to its accuracy, completeness otherwise and no assumption of liability from howsoever arising is made by Jurox Pty Limited by reason of the provision of this information. Every person dealing with the materials referred to herein does so at his/her own risk absolutely and must make independent determinations of suitability and completeness of information from all sources to ensure their proper use.

Legend:

ADG	Australian Code for the Transport of Dangerous Goods by Road & Rail, 7 th Edition.
ADI	Acceptable Daily Intake.
AICS	Australian Inventory of Chemical Substances.
APVMA	Australian Pesticides and Veterinary Medicines Authority.
CAS No.	Chemical Abstracts Service Registry Number.
EC₅₀	The median effect concentration, being a statistically derived concentration of a substance that can be expected to cause an adverse reaction in 50% of organisms or a 50% reduction in growth or in the growth rate of organisms.
GHS	Globally Harmonized System of Classification and Labelling of Chemicals.
Hazchem Code	Emergency action code of numbers and letters that provide information to emergency services especially firefighters.
LC₅₀	The median lethal concentration, being a statistically derived single dose of a substance that can be expected to cause death in 50% of animals.
LD₅₀	The median lethal dose, being a statistically derived single dose of a substance that can be expected to cause death in 50% of animals.
NICNAS	National Industrial Chemicals Notification and Assessment Scheme.
NOEC	No-observable-effect-concentration.
PPE	Personal Protective Equipment.
PVC	Polyvinyl Chloride.
SDS	Safety Data Sheet.
STOT	Specific Target Organ Toxicity.
STOT – SE	Specific target organ toxicity – single exposure
SUSMP	Standard for the Uniform Scheduling of Medicines and Poisons.

References:

ChemID Plus

EPA New Zealand Chemical Classification and Information Database (CCID)

HSDB (Hazardous Substances Data Bank)

This version issued: 7 June 2016 and is valid for 5 years from this date.

Supersedes: This SDS supersedes the version issued on 1 July 2011.

Revision History:

Date of Revision	Reason
7 June 2016	Reclassification of substance to GHS classification and update of SDS to comply with SWA Code of Practice.

END OF SDS