

ISSUED: 13 September 2016

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**SAFETY DATA SHEET**

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**Section 1: IDENTIFICATION of CHEMICAL PRODUCT and COMPANY**

<b>Product Name:</b>	<b>Strikeforce-S Spray-On Sheep Blowfly Treatment</b>
<b>Product Code:</b>	502535 (15 L)
<b>Recommended Use:</b>	For the protection of sheep, either off-shears or with any length wool, against fly strike ( <i>Lucilia cuprina</i> ), for 18 to 24 weeks. For the protection of mulesing and marking wounds on sheep against fly strike ( <i>Lucilia cuprina</i> ) during the wound healing process.
<b>Restrictions on Use:</b>	For animal treatment only.
<b>Company Identification:</b>	Jurox Pty Limited
<b>Address:</b>	85 Gardiner Street, Rutherford, NSW 2320, Australia
<b>Email:</b>	jenq@jurox.com.au
<b>Customer Centre:</b>	1800 023 312
<b>National Poisons Information Centre:</b>	13 1126 (Australia-wide)
<b>Emergency Telephone Number:</b>	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
Skin Corrosion/Irritation Category 2	H315	Causes skin irritation
Eye Irritation Category 2A	H319	Causes serious eye irritation
Acute Aquatic Hazard Category 3	H402	Harmful to aquatic life
Chronic Aquatic Hazard Category 3	H412	Harmful to aquatic life with long lasting effects

**Signal word: WARNING**

**GHS Pictograms:**



Exclamation mark

**Precautionary statements:**

Prevention

- P101 If medical advice is needed, have product container or label at hand.
- P102 Keep out of reach of children.
- P103 Read label before use.
- P264 Wash hands thoroughly after handling.

P280 Wear protective gloves and eye protection.

P273 Avoid release to the environment.

#### Response

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P333+P313 If skin irritation occurs: Get medical advice/attention.

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.

P362 Take off contaminated clothing and wash before reuse.

#### Disposal

P501 Triple-rinse container and dispose of rinsate in compliance with relevant local, state or territory government regulations. Do not dispose of undiluted chemicals on-site. If the container has the **drumMUSTER** logo visible, and has been thoroughly cleaned and dried, and is free of any visible residues, it can be recycled at any **drumMUSTER** collection or similar container management program site. The cap should not be replaced, but may be recycled separately with the container. If not recycling, break, crush, or puncture container and deliver to an approved waste management facility. If an approved waste management facility is not available, bury the broken, crushed or punctured containers 500 mm below the surface in a disposal pit specifically marked and set up for this purpose clear of waterways, vegetation and tree roots, in compliance with relevant local, state or territory government regulations. Do not burn empty containers or product.

### Section 3: COMPOSITION / INFORMATION on INGREDIENTS

INGREDIENT	CAS No.	CONTENT
Dicyclanil	112636-83-6	5%
Lactic acid	50-21-5	10 – 20%
Octylphenol, ethoxylated	9036-19-5	1 – 10%
Ingredients not contributing to the hazards	-	30 – 40%

### Section 4: FIRST AID MEASURES

**General Information:** 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:** None known.

**Inhalation:** If fumes, aerosols or combustion products are inhaled remove from contaminated area. If respiratory symptoms occur, remove patient to fresh air. Lay patient down and keep warm and rested. If breathing is shallow or has stopped, ensure airway is clear and apply resuscitation. If breathing is difficult, give oxygen and seek medical assistance immediately.

**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. Observe the patient carefully.

**Skin:** If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.

**Eye:** If eye contact occurs: Immediately flush the eye continuously with running water. 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. Continue flushing for at least 20 minutes. 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.

**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:** Wear gloves and appropriate protective clothing. For small spills, clean up spilled product then wipe area and put empty container in garbage. 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:** Handle this product to avoid exposure, taking all recommended precautions. Avoid contact with skin, eyes and inhalation of vapours. 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). Protect from light. Store in original container, tightly closed in a cool, dry place. DO NOT re-use the container.

**Other Information:** Avoid contact with incompatible substances as listed in Section 10. Always read the label before use.

**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. Known exposure limits for ingredients are as follows:

INGREDIENT	TEEL-1	TEEL-2	TEEL-3
Lactic acid	0.47 mg/m <sup>3</sup>	5.2 mg/m <sup>3</sup>	700 mg/m <sup>3</sup>
Octylphenol, ethoxylated	13 mg/m <sup>3</sup>	140 mg/m <sup>3</sup>	830 mg/m <sup>3</sup>

**Engineering Controls:** Handle in a well ventilated area. Ensure that the work environment remains clean.

**Personal Protective Equipment (PPE):**

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

Skin protection: When handling bulk product, 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**

<b>Appearance:</b>	Clear red liquid	<b>Lower flammability limits:</b>	Not available
<b>Odour:</b>	Not available	<b>Vapour Pressure:</b>	Not available
<b>Odour threshold:</b>	Not available	<b>Vapour density:</b>	Not available
<b>pH:</b>	2.5 – 5.0	<b>Relative density:</b>	Not applicable
<b>Melting Point:</b>	Not applicable	<b>Specific Gravity:</b>	1.08 – 1.10
<b>Boiling Point:</b>	Not available	<b>Solubility in Water:</b>	Mixes with water
<b>Flash Point:</b>	Not available	<b>Partition coefficient:</b>	Not available
<b>Evaporation Rate:</b>	Not available	<b>Auto-ignition temperature:</b>	Not available
<b>Flammability:</b>	Not flammable	<b>Decomposition temperature:</b>	Not available
<b>Upper flammability limits:</b>	Not available	<b>Viscosity:</b>	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:** Extreme temperatures.

**Incompatible Materials:** Oxidising agents.

**Hazardous Decomposition Products:** No data available.

## Section 11: TOXICOLOGICAL INFORMATION

### Acute Toxicity:

**Ingestion:** 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 oral route.

Dicyclanil	Oral (rat) LD <sub>50</sub> : 500 mg/kg
Lactic acid	Oral (guinea pig) LD <sub>50</sub> : 1810 mg/kg
Octylphenol, ethoxylated	Oral (rat) LD <sub>50</sub> : 2800 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.

Dicyclanil	Inhalation (rat) LC <sub>50</sub> : 3400 mg/m <sup>3</sup>
Lactic acid	No data
Octylphenol, ethoxylated	No data

**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.

Dicyclanil	No data
Lactic acid	Dermal (rabbit) LD <sub>50</sub> : > 2000 mg/kg
Octylphenol, ethoxylated	No data

**Skin Corrosion / Irritation:** No data for the mixture is available. Based on available data for the ingredients, the mixture is classified as **Skin Corrosion/Irritation Category 2**. Lactic acid, in its purest form, is skin corrosive.

**Serious Eye Damage / Irritation:** No data for the mixture is available. Based on available data for the ingredients, the mixture is classified as **Eye Irritation Category 2A**. Lactic acid, in its purest form, is eye corrosive.

**Respiratory or Skin Sensitisation:** No data for the mixture is available. Based on available data for the ingredients, the mixture is not considered to be a respiratory sensitiser or skin sensitiser.

**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.

**STOT: Single 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 single exposure.

**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. Animal studies have shown that long term exposure to high doses of dicyclanil can affect the blood and haematopoietic system.

**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 classified as **Chronic Aquatic Hazard Category 3**. Dicyclanil is toxic to the aquatic environment.

### Fish

Dicyclanil: LC<sub>50</sub> (96h): 32 – 68.3 mg/L, LC<sub>50</sub> (96h): 2018.5 mg/L;

Lactic acid: LC<sub>50</sub> (96h): 38.0 mg/L;

Octylphenol, ethoxylated: LC<sub>50</sub> (96h): 7.2 mg/L, NOEC (168h): 0.004 mg/L.

### Crustacea

Dicyclanil: EC<sub>50</sub> (48h): 1.1 mg/L, EC<sub>50</sub> (384h): 457.5 mg/L, NOEC (21 day): < 0.0019 mg/L;

Lactic acid: EC<sub>50</sub> (48h): 130 – 250 mg/L, NOEC (48h): 180 mg/L;

Octylphenol, ethoxylated: LC<sub>50</sub> (48h): 8.6 mg/L.

### Algae and other aquatic plants

Dicyclanil: EC<sub>50</sub> (96h): 14201.4 mg/L, EbC<sub>50</sub>: 19.5 mg/L;

Lactic acid: EC<sub>50</sub> (72h): > 2800.0 mg/L;

Octylphenol, ethoxylated: EC<sub>50</sub> (96h): 0.21 mg/L.

Ingredient	Persistence: Water/Soil	Persistence: Air	Bioaccumulation	Mobility
Dicyclanil	HIGH	HIGH	LOW (LogKOW = - 0.46)	LOW (KOC = 73.47)
Lactic acid	LOW	LOW	LOW (LogKOW = -0.72)	HIGH (KOC = 1)
Octylphenol, ethoxylated	No data	No data	LOW (BCF = 30)	No data

## Section 13: DISPOSAL INFORMATION

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

**Container Disposal:** Crush or puncture and bury in an approved landfill if an approved recycling system is not available.

## Section 14: TRANSPORT INFORMATION

**Dangerous Goods Classification:** Not considered a Dangerous Good for land, sea and air transport.

## Section 15: REGULATORY INFORMATION

**Poison Schedule (SUSMP):** Not scheduled

**APVMA No.:** 81483

**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:**

<b>AICS</b>	Australian Inventory of Chemical Substances.
<b>CAS No.</b>	Chemical Abstracts Service Registry Number.
<b>GHS</b>	Globally Harmonized System of Classification and Labelling of Chemicals.
<b>Hazchem Code</b>	Emergency action code of numbers and letters that provide information to emergency services especially firefighters.
<b>EbC<sub>50</sub></b>	The concentration at which 50% reduction of biomass is observed.
<b>EC<sub>50</sub></b>	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.
<b>LC<sub>50</sub></b>	The median lethal concentration, being a statistically derived single dose of a substance that can be expected to cause death in 50% of animals.
<b>LD<sub>50</sub></b>	The median lethal dose, being a statistically derived single dose of a substance that can be expected to cause death in 50% of animals.
<b>NICNAS</b>	National Industrial Chemicals Notification and Assessment Scheme.
<b>NOEC</b>	No-observable-effect-concentration.
<b>PPE</b>	Personal Protective Equipment.
<b>PVC</b>	Polyvinyl chloride.
<b>SDS</b>	Safety Data Sheet.
<b>STOT</b>	Specific Target Organ Toxicity.
<b>SUSMP</b>	Standard for the Uniform Scheduling of Medicines and Poisons.
<b>SWA</b>	Safe Work Australia.
<b>TEELs</b>	Temporary Emergency Exposure Limits. Guidelines designed to predict the response of members of the general public to different concentrations of a chemical during an emergency response incident.
<b>TEEL-1</b>	The airborne concentration of a substance above which it is predicted that the general population, including susceptible individuals, could experience notable discomfort, irritation, or certain asymptomatic, nonsensory effects. However, these effects are not disabling and are transient and reversible upon cessation of exposure.
<b>TEEL-2</b>	The airborne concentration of a substance above which it is predicted that the general population, including susceptible individuals, could experience irreversible or other serious, long-lasting, adverse health effects or an impaired ability to escape.
<b>TEEL-3</b>	The airborne concentration of a substance above which it is predicted that the general population, including susceptible individuals, could experience life-threatening adverse health effects or death.

**References:**

ChemID Plus

EPA New Zealand Chemical Classification and Information Database (CCID)

HSDB (Hazardous Substances Data Bank)



**This version issued:** 17 June 2016 and is valid for 5 years from this date.

**Supercedes:** This is the first SDS for this product.

**Revision History:**

Date of Revision	Reason

**END OF SDS**