

ISSUED: 10 July 2019

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**SAFETY DATA SHEET**

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

**Product Name:** Strikeforce-S Spray-On Sheep Blowfly Treatment

**Product Identifier:** Spray-on liquid containing 50 g/L (5%) Dicyclanil

**Product Code:** 502535 (15 L)

**Recommended Use:** For the protection of sheep, either off-shears or with any length wool, for up to 18 to 24 weeks against strike by dicyclanil susceptible strains of blowflies (*Lucilia cuprina*) when applied by spraying. For the protection of mulesing and marking wounds on sheep against fly strike (*Lucilia cuprina*) during the wound healing process.

**Restrictions on Use:** For animal treatment only.

**Company Identification:** Jurox Pty Limited

**Address:** 85 Gardiner Street,  
Rutherford, NSW 2320,  
Australia

**Email:** customerservice@jurox.com.au

**Customer Centre:** 1800 023 312

**National Poisons Information Centre:** 13 11 26 (24 hours)

**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
Skin corrosion/irritation: Category 2	H315	Causes skin irritation
Eye irritation: Category 2A	H319	Causes serious eye irritation
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/face protection.
P273	Avoid release to the environment.

Response

P302+P352	IF ON SKIN: Wash with plenty of water.
P332+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+P364	Take off contaminated clothing and wash it before reuse.

Storage

None

Disposal

P501	Dispose of contents/container according to label directions.
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N.B.: The above statements are determined by Work Health and Safety regulations and may not reflect Signal Headings and First Aid and Safety statements on product labelling, which are determined by a competent authority during assessment for registration.

**Other hazards:** None known.

**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:** Consult the National Poisons Centre on 13 11 26 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:** None known.

**Inhalation:** If fumes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary. 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. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

**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:** Not flammable.

**Hazardous Combustion Products:** If involved in a fire, may emit poisonous and corrosive 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 boots and breathing apparatus.

**HAZCHEM Code:** Not specified.

## Section 6: ACCIDENTAL RELEASE MEASURES

**Spills and Disposal:** Wear gloves and appropriate protective clothing. Avoid breathing vapours and contact with skin and eyes. Clean up all spills immediately. 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. Contain and absorb spill with sand, earth, inert material or vermiculite. 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 in a well-ventilated area. Do not allow clothing wet with material to stay in contact with skin. 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
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: Safety glasses with side shields or chemical goggles are recommended when handling bulk quantities of this product.

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

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

Other: When handling bulk quantities of this product, overalls, PVC apron, barrier cream, skin cleansing cream and eye wash unit may be required.

**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 available
<b>Melting Point:</b>	Not available	<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 applicable	<b>Viscosity:</b>	Not available

## 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:** Combustion products include carbon dioxide, nitrogen oxides, silicon dioxide and other pyrolysis products typical of burning organic material.

## 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 LD<sub>50</sub>: 520 mg/kg (rat);

Lactic acid: Oral LD<sub>50</sub>: 3543 mg/kg (rat), 1810 mg/kg (guinea pig);

Octylphenol, ethoxylated: Oral LD<sub>50</sub>: 2800 mg/kg (rat).

**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. Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.

Dicyclanil: Inhalation LD<sub>50</sub>: 3.184 mg/l/4h (rat);

Lactic acid: Inhalation LD<sub>50</sub>: > 7.94 mg/l/4h (rat);

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. Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting. Entry into the bloodstream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.

Dicyclanil: Dermal LD<sub>50</sub>: > 2000 mg/kg (rat);

Lactic acid: Dermal LD<sub>50</sub>: > 2000 mg/kg (rabbit);

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. This material can cause inflammation of the skin on contact in some persons and may accentuate any pre-existing dermatitis conditions. Repeated exposure may cause skin cracking, flaking or drying following normal handling and use.

**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**. This material can cause eye irritation and damage in some people. 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 thought to cause respiratory or skin sensitisation.

**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 thought 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 thought to be a Specific Target Organ Toxicant after repeat exposure.

**Aspiration Hazard:** No data available.

**Narcotic Effects:** No data for the mixture is available. Based on available data for the ingredients, the mixture is not considered to have any narcotic effects.

## 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): 2018.511 mg/L;

Lactic acid: LC<sub>50</sub> (96h): 130 mg/L;

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

### Crustacea

Dicyclanil: No data;

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

Octylphenol, ethoxylated: No data.

### Algae and other aquatic plants

Dicyclanil: EC<sub>50</sub> (96h): 14201.396 mg/L;

Lactic acid: EC<sub>50</sub> (72h): > 2800 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 = -0.4554)	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 classified as a Dangerous Good for land, sea or 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>APVMA</b>	Australian Pesticides and Veterinary Medicines Authority.
<b>BCF</b>	Bioconcentration factor.
<b>CAS No.</b>	Chemical Abstracts Service Registry Number.
<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>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>KOC</b>	Soil-Water Partition Coefficient. The ratio of a chemical's concentration that is adsorbed in the soil to the concentration of chemical in solution.
<b>KOW</b>	Octanol Water Partition Coefficient. The ratio of a compound's concentration in a known volume of n-octanol to its concentration in a known volume of water after the octanol and water have reached equilibrium.
<b>LC<sub>50</sub></b>	The median lethal concentration, being a statistically derived concentration 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>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

Chemwatch

EPA New Zealand Chemical Classification and Information Database (CCID)

HSDB (Hazardous Substances Data Bank)

**This version issued:** 10 July 2019 and is valid for 5 years from this date.**Supersedes:** This SDS supersedes the version issued on 13 September 2016.**Revision History:**

Date of Revision	Reason
10 July 2019	Addition of product identifier, minor changes to recommended use and email address updated in section 1. Removal of acute aquatic hazard classification in section 2. Minor changes to sections 4, 5, 6, 7, 8, 10, 11 and 12.

**END OF SDS**