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SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name:	10% 1080 GEL
Synonyms:	Deer and Wallaby Gel
Supplier 1:	Animal Control Products Ltd
Street Address:	408 Heads Road Whanganui 4501 New Zealand
Telephone:	64 (0) 6 344 5302
Website:	www.pestoff.co.nz
After hours telephone number:	021 919 624
Emergency Telephone Number for National Poisons Centre:	0800 764 766

2. COMPOSITION / INFORMATION ON INGREDIENTS

Product Name:	10% 1080 GEL
Synonyms:	Deer and wallaby gel
Active Ingredient:	Sodium fluoroacetate 5% - 10% w/w
Other Ingredients:	Petrolatum, polymers, green dye.
Active Cas Number:	62-74-48
Molecular Weight of Active:	100.02
Molecular Formula of Active:	F C H ₂ CO ₂ Na
Recommended Use:	Gel for application to palatable foliage for the poisoning of deer and wallabies.
Appearance:	Green translucent gel.

3. HAZARDS IDENTIFICATION

STATEMENT OF HAZARDOUS NATURE

This product is classified as a **DEADLY POISON**.

HSNO Approval code: HSR002426

HAZARD CLASSES:	10% Gel - 6.1A, 6.3B, 6.4A, 6.8A, 6.9A, 9.1A, 9.3A, 9.4B
HAZARD IDENTIFIERS:	Priority Identifiers - Danger. Deadly Poison. Keep out of reach of children. Ecotoxic. Secondary Identifiers - Acutely toxic. May be fatal if swallowed, inhaled or absorbed through the skin. Repeated oral exposure may cause reproductive or developmental damage. When handling open containers or baits, wear protective equipment as indicated below. Toxic to terrestrial vertebrates. Take measures to reduce the risk of non-target animals being exposed to the toxin either through eating treated foliage baits or by scavenging the carcasses of poisoned animals. Harmful to aquatic organisms. Manage gel application rates carefully and comply with any restrictions imposed on placing baits over or near waterways. Avoid pollution of any water supply with gel or used container.
DANGEROUS GOODS CLASS:	10% 1080 GEL – Packing Group 1
GENERAL REQUIREMENTS:	Deadly Poison. Subject to tracking requirements for individual packs. Available for purchase and use only by

holders of Controlled Substances Licenses. This substance must be under the control of an Approved Handler for Class 6 and Class 9 Hazardous substances at all times unless being transported by a transport operator with a Dangerous Goods License endorsement.

SYMPTOMS OF POISONING:

Early Symptoms: Nausea, vomiting, tingling and numbness in face and hands, stomach pains, apprehension and anxiety.

Later Symptoms: Muscular twitching, blurred vision, mental confusion.

Severe Symptoms: Coma, convulsions.

4. FIRST AID MEASURES

Do NOT induce vomiting or give anything by mouth if patient is unconscious or convulsing.

PROMPT TREATMENT IS ESSENTIAL. GET MEDICAL ATTENTION IMMEDIATELY.

Ingestion: **Seek immediate medical assistance in all cases where poisoning is suspected.** National Poisons Centre recommends against inducing vomiting in most cases but in particular, never use any chemical means of inducing vomiting. In areas remote from medical assistance, there may be benefit in inducing vomiting by placing a finger down the throat.

Eye Contact: Wash eyes with copious amounts of water for at least 15 mins.

Skin Contact: Wash exposed area twice with soap and water.

Contaminated Clothing: Remove contaminated clothing and wash before re-use. Wear rubber gloves, overalls and secure footwear when handling 1080 gels. Do not eat, drink or smoke. Clothing and gloves must be decontaminated by washing in hot soapy water. Ensure gel is not inadvertently trampled off site.

5. FIRE FIGHTING MEASURES

Not generally combustible. 1080 gels have no toxic emissions as either vapours, gases or odours. Hazards arise through direct contact with skin, or by ingestion.

6. ACCIDENTAL RELEASE MEASURES

In the event of major spills, inform the Fire Service immediately via the 111 emergency phone service, and then local health protection officers at your District Health Board or hospital.

Isolate the spill area and exclude all bystanders. Take all practicable steps to manage any harmful effects of a spillage including preventing gel from entering streams or waterways. Scoop spilled gel into secure containers. Recover any undamaged gel for later use by placing in appropriately labeled containers and dispose of spoiled gel as directed below. Wash down the spill area with copious water only after all spilled bait has been removed.

7. HANDLING AND STORAGE

When handling open containers of gel, wear overalls worn outside rubber boots, and impervious rubber or PVC gloves. Do not eat, drink or smoke when using the product or handling open containers. Wash protective clothing and equipment daily after work. Remove protective clothing and wash hands and exposed skin thoroughly before meals and after any contact.

Store in original container, tightly closed, under lock and key and away from feed or foodstuffs. Keep out of reach of children. This product must always be under the control of an approved handler who holds a current test certificate endorsed for class 6 and class 9 substances.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits: Ministry of Health exposure limit set February 2002 is 0.015 micrograms of 1080 per ml in urine.

Tolerable Exposure Limits (TEL) : ERMA NZ has prescribed the TEL_{water} for sodium fluoroacetate, expressed as the amount of sodium fluoroacetate per volume of water as 0.0035 milligrams per litre of water (0.00000035%).

Engineering Measures: Decontaminants are water (dilution), heat > 120°C (denaturing) and microbial decomposition (degradation).

Personal Protection Equipment: Operators using or handling the product in open containers must wear gloves, overalls and waterproof boots. Do not smoke, drink or eat while handling the product. Wash hands, face and any exposed areas after use. Wash protective equipment immediately after use or otherwise isolate and containerise for return to a washing facility.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form / Colour / Odour: 1080 gels are an odourless translucent green gel.

Solubility in Water (g/L)	Gel is not readily water soluble but will slough off leaves in steady rain.
Decomposition Point (°C)	The active ingredient 1080 decomposes at 200 degrees Celsius and becomes unstable at 110 degrees Celsius.

10. STABILITY AND REACTIVITY

1080 gel is stable and non-reactive under normal storage and use conditions.

11. TOXICOLOGICAL INFORMATION

Exposure must be kept to absolute minimum. Sodium fluoroacetate may be absorbed through the eyes, broken skin or via the mouth.

TOXICITY DATA FOR THE ACTIVE INGREDIENT - VARIOUS SPECIES*

White laboratory rat (oral) LD ₅₀	0.2 mg/kg B/W
Brush-tailed possum (oral) LD ₅₀	0.3 – 1.0 mg/kg B/W
Dog (oral) LD ₅₀	0.1 – 0.35 mg/kg B/W
Cat (oral) LD ₅₀	0.35 mg/kg B/W
Bennett's wallaby (oral) LD ₅₀	0.2 mg/kg B/W
Mule deer (oral) LD ₅₀	1.0 mg/kg B/W
Mouse (oral) LD ₅₀	5.0 – 19.3 mg/kg B/W
Human (oral) LD ₅₀ (estimated)	0.7 – 2.1 mg/kg B/W

* Data from US Department of the Interior, Biological Report No. 27 (1995); Ronald Eisler "Sodium monofluoroacetate (1080) Hazards to Fish, Wildlife, and Invertebrates: A Synoptic Review"

12. ECOLOGICAL INFORMATION

Use the gel only for the purpose indicated and in the manner prescribed by the label.

Sodium fluoroacetate may be present for many months in the carcasses of poisoned animals; thus presenting a secondary poisoning danger to carnivorous birds and mammals. Take steps to mitigate any potential non-target exposure by wildlife or domestic animals. Studies have shown that 1080 concentrations will decline within rotting carcasses through the microbial degradation of 1080.

1080 wastes are ecotoxic. Improper disposal of excess pesticide is unlawful. If wastes can not be disposed of by use according to label instructions, contact local Regional Council or a hazardous waste advisor for guidance.

13. DISPOSAL CONSIDERATIONS

The active ingredient sodium fluoroacetate is degraded through microbial activity and will decompose at temperatures above 200 degrees Celsius. It dilutes readily in water. Product which is surplus or spoiled should be disposed of by burying with other organic material on the active tip face of an appropriately managed landfill or buried within the biologically active layer of soil elsewhere within a secure area. Ensure that a good covering of earth is applied over the bait immediately to prevent access by scavenging birds. Avoid deep disposal or burying where groundwater contamination may occur. Alternatively, burn unwanted bait material in a suitably constructed and appropriately located incinerator and bury any residues as above. Treating the gel through a sewage oxidation facility or other chemical treatment facility is also an acceptable means of disposing of unwanted bait material where this is allowed by local by-laws and regulations. Bury empty containers in a suitable location at a landfill, at a depth of at least 60 cm. Do not use the empty container for any other purpose.

14. TRANSPORT INFORMATION

Proper Shipping Name:	Pesticide, solid, toxic, n.o.s. [contains Sodium fluoroacetate]
U.N. NO:	2588
Class:	6.1
Packing Group:	I
Maximum transport quantity as tools of trade:	5 kg

15. REGULATORY INFORMATION

Deadly poison: Available only to holders of Controlled Substances Licenses or persons licensed to transport dangerous goods. Label directions are mandatory. Registered Pesticides:

- **10% 1080 GEL - V002554**
- **HSNO Approval code: 10% - HSR002426**
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Packaging approval: The packaging for these products has been tested and is approved in accordance with the UN convention for transportation of dangerous goods. Approval codes combination packaging is: UN 4G/X18/S/03 NZ/ACP Ltd

16. OTHER INFORMATION

SPECIAL PRECAUTIONS & OTHER COMMENTS:

It is strongly recommended that approved handlers carry an operable telephone, radio telephone or other means of obtaining urgent medical assistance as a precaution when using 1080 poison. Test communication systems and coverage before commencing operations.

May be fatal if swallowed. Always wear waterproof gloves when using 1080 products. Wash hands after handling gel or animals that have been contaminated with 1080. Do not use poisoned or contaminated animals for food or feed.

This product is toxic to most wildlife. Birds and mammals feeding on carcasses of contaminated animals may be killed. Take measures to minimise the chance of baits accidentally entering any body of water. Apply the product only as specified by its label directions.

Where practicable, the exposed bodies of all poisoned animals should be collected and destroyed by complete burning or deep burial at a landfill approved for hazardous wastes. Dehydrated carcasses may remain dangerous to dogs or cats for an indefinite period. A single mouse poisoned by 1080 may contain enough poison to kill an adult dog.

CONSULT NEAREST POISON CONTROL CENTER FOR CURRENT INFORMATION.

All information contained in this Data Sheet is as accurate and up-to-date as possible. Since Animal Control Products Ltd. cannot anticipate or control the conditions under which this information may be used, each user should review the information in the specific context of the intended application.

**Revised by: AD Courtney
Revision date: 15 March 2019**