



1. IDENTIFICATION OF THE SUBSTANCE AND MANUFACTURER

1.1 Product identifier

Trade Name 1080 Solution

1.2 Relevant identified uses of the substance or mixture and uses advised against

For mixing with food baits for vertebrate pest control.

1.3 Details of the supplier of the safety data sheet

Company Orillion, 408 Heads Road, Wanganui 4501, New Zealand.
(Orillion is the trading name of Animal Control Products Ltd.)
Telephone +64 (6) 3445302 or +64 (21) 919 624
Email address enquiries@orillion.com

1.4 Emergency telephone number

National Emergency Contact number 111
NZ National Poisons information Service 0800 764 766

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Class 6.1A
Class 6.3B
Class 6.4A
Class 6.8A
Class 6.9A
Class 9.1A
Class 9.3A
Class 9.4B
62-74-48

CAS Registry number of active ingredient:

2.2 Label Elements

Hazard Pictogram



Signal word

Danger, warning

Precautionary Statements

Hazard Statements:	H300	Fatal if Swallowed
	H316	Causes mild skin irritation
	H319	Causes Serious eye irritation
	H360	May damage fertility or the unborn child
	H370	Causes damage to organs
	H400	Very toxic to aquatic life
	H431	Very toxic to terrestrial vertebrates
	H443	Harmful to terrestrial invertebrates

Prevention Statements:	P101 (b)	If medical advice is needed, have product container or label at hand.
	P102	Keep out of reach of children
	P103 (b)	Read Label before use
	P201	Obtain special instructions before use.
	P202	Do not handle until all safety precautions have been read and understood.
	P260	Do not breathe fumes
	P264	Wash hands thoroughly after handling
	P270	Do not eat, drink or smoke when using this product.
	p273	Avoid release to the environment
	P280	Wear recommended Personal Protective Equipment
Response Statements:	P301+ P310	IF SWALLOWED: Immediately call a POISON CENTER or Doctor/physician.
	P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes, having removed contact lenses, if present and easy to do.
	P307+P311	IF EXPOSED: Call a POISON CENTER or doctor/physician.
	P308+P313	IF exposed or concerned: Get medical advice/ attention
	P321	Specific treatment - See instructions on label.
	P330	Rinse Mouth
	P337+ P313	If eye irritation persists, Get Medical advice/attention
	P391	Collect spillage
Storage Statements:	P405	Store Locked up
Disposal Statements:	P501	Dispose of contents/container in accordance with label directions
2.3 Other Hazards	No data.	

3. COMPOSTION / INFORMATION ON INGREDIENTS

3.1 Substances

Contains no substances of concern other than the active ingredient.

3.2 Mixtures

Chemical Nature: Sodium Fluoroacetate 20%

Component	CAS Number	Concentration (% w/w)	Classification EU
F C H ₂ CO ₂ Na	62-74-48	20%	2588
Other non-Hazardous ingredients *		Dye , water.	

* do not affect the hazardous classifications of the substance.

4. FIRST AID MEASURES

PROMPT TREATMENT IS ESSENTIAL. CALL FOR MEDICAL ATTENTION IMMEDIATELY.

Ingestion:

Seek immediate medical assistance in all cases where poisoning is suspected. National Poisons Centre recommends against inducing vomiting in most poisoning, should this material be swallowed, every effort should be made to remove the solution from the mouth and stomach immediately by any available means. Give the patient two glasses of water and induce further vomiting- if necessary, by placing a finger down the throat.

Eye Contact:

Wash eyes with copious amounts of water.

Skin Contact:

Wash exposed area twice thoroughly with soap and water, flushing well.

Contaminated Clothing:

Remove contaminated clothing and wash before re-use. Wear rubber gloves, overalls and secure footwear when handling 1080. Clothing and gloves must be decontaminated by washing in hot soapy water. Ensure that all solution and contaminated equipment and clothing is secured before removing from the work site.

DO NOT INDUCE VOMITING OR GIVE ANYTHING BY MOUTH IF THE PATIENT IS UNCONSCIOUS OR CONVULSING.

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.

5. FIRE FIGHTING MEASURES

Suitable extinguishing Media:

Water fog, fine water spray, foam or as appropriate to surrounding materials.

Unsuitable extinguishing Media: None identified.

Hazchem 2XE.

Emergency firefighting response for fires in enclosed spaces by should be undertaken only by trained professionals using SCBA.

1080 solution produces no toxic emissions as either vapours, gases, or odours. Hazards arise through contact with skin, eyes or by ingestion.

For small fires in well ventilated areas, the low rate of combustion achievable, the low concentration of toxin in the bait and the effect of ingress of fresh air through convection and circulation, will result in the dilution of gases to a level unlikely to cause harm where normal precautions are taken. 1080 solution has a low combustibility risk and have a limited ability to sustain fire unless burned in the presence of other more flammable material. The evacuation of adjacent and downwind premises within 200 metres of the fire should be considered in the case of large fires involving 1080 pellets.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures:

Wear personal protective equipment.

Remove exposed persons to safety.

See protective measures under points 7 and 8.

Environmental precautions:

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

Methods and materials for containment and clean up:

Isolate the spill area and exclude all bystanders. If possible, recover any spilled solution by using an absorbent material such as dry sawdust. Collect absorbed material and place in appropriately labelled containers. Dispose of absorbent material by incinerating or by burying in a landfill approved for hazardous substances. Wash down the spill area with copious water. Take all practicable steps to manage any harmful effects of spillage including preventing prepared baits from entering streams or waterways. Scoop spilled baits into secure containers and dispose of spoiled bait as directed below. Use a broom to collect fine material and wash down the spill area with copious water only after all spilled bait has been removed. Consider possible hazards arising from washing down and ensure people, pets, livestock, wildlife, and fish will not be exposed to the toxic run-off.

7. HANDLING AND STORAGE

Precautions for safe handling:

When handling open containers or solution, wear overalls worn outside rubber boots, a Perspex face screen and impervious rubber or PVC gloves. Do not eat, drink, or smoke when using the product or handling opening 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. Wash protective clothing and equipment daily after work. When loading aircraft, or working in windy conditions with prepared bait, wear goggles and a dust mask as protection against dust entering the eyes or mouth

Conditions for safe storage, including any incompatibilities:

Store in original container, tightly closed, under lock and key and away from feed or foodstuffs. Keep out of reach of children. As far as practicable, eliminate flammable materials and ignition sources from storage areas. Do not store in direct or diffused sunlight. The storage facility must be secure, dry and will preferably be insulated to buffer the effect of ambient temperature changes likely to cause condensation forming inside packaging.

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.

Incompatible Materials:

None identified.

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.

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. When working around aircraft, wear a suitable dust mask to prevent inhalation of airborne particles.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form / Colour / Odour

1080 Solution (water, blackish-purple dye)

Property:

Physical State:
Appearance:
Odour:
Odour Threshold:
pH:
Melting point/range:
Boiling point/range:
Flash Point:
Evaporation rate:
Flammability:
Upper/lower flammability or explosive limits:
Vapour Pressure:
Vapour density:
Relative Density:
Water Solubility:
Lipid Solubility:
Partition coefficient (N-octanol/water):
Auto-ignition Temperature:
Decomposition Temperature:

Specification:

Liquid
blackish-purple low viscosity solution.
No data Available.
Not relevant
Not determined
Not relevant
Not relevant
No Data Available
No Data Available
No Data Available
No Data Available
No Data Available
No Data Available
No Data Available
No Data Available
No Data Available
No Data Available
No Data Available
No Data Available
No Data Available
The active ingredient 1080 becomes unstable at 110 degrees Celsius and decomposes at 200 degrees Celsius.
No Data Available

Viscosity:

10. STABILITY AND REACTIVITY

20 % 1080 is stable and non-reactive under normal storage and use conditions.

11. TOXICOLOGICAL INFORMATION

Exposure must be kept to an absolute minimum. Sodium Fluoroacetate may be absorbed through the eyes, broken skin or via the mouth. It is estimated that a lethal dose of bait for an adult human could be as little as 30 grams where the bait contains 0.15% 1080. A small dog may receive a lethal dose of 1080 from as little as 0.5 grams of bait containing 0.15% 1080

Toxicity Data for the Active Ingredient - Various Species *

Species (Oral) LD50	LD50- active
White Laboratory Rat	0.2 mg/kg B/W
Brush-tailed possum	0.3-1.0 mg/kg B/W
Dog	0.1 – 0.35mg/kg B/W
Cat	0.35 mg/kg B/W
Bennett's Wallaby	0.2mg/kg B/W
Mule Deer	1.0 mg/kg B/W
Mouse	5.0-19.3 mg/kg B/W
Human (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 pellets 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 microbial degradation.

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

13. DISPOSAL CONSIDERATIONS

Product: The best means of disposal is to use the substance for the purpose intended. The active ingredient sodium fluoroacetate is degraded through microbial activity and will decompose at temperatures about 200 degrees Celsius. It dilutes readily in water Product which cannot be used should be disposed of by incineration after being applied to an absorbent, flammable material such as woodchips; or by treatment through a chemical treatment facility or sewage oxidation facility where this is allowed by local by-laws and regulations.

Container disposal: Triple rinse empty containers, then puncture them before burying in a suitable location at a landfill at a depth or at least 60cm. Do not use the empty container for any other purpose.

14. TRANSPORT INFORMATION

Proper Shipping Name: Pesticide, liquid, toxic, n.o.s (Contains Sodium Fluoroacetate.)
U. N. NO: 2902
Class: 6.1
Packing Group: I

Environmental hazards:
Toxic Ingredients: 20% 1080
Marine Pollutant: Yes
Environmental Pollutant: Yes

Maximum transport quantity when for use as tools of trade:

5 L. (Placarding and DG Documents not required but this safety Data Sheet must be carried)

Packaging Approval:

(5 litre Jerry Can) UN 4G/X24/S/04/NZ/ACP Ltd.

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:

1080 Solution– V002189.

HSNO Approval

HSR002427

Packaging approvals:

The packaging for these products has been tested and complies with the UN convention for transportation of dangerous goods and with HSNO Controls and variations stipulated under the 1080 re-assessment decision arising from application HRE05002 and released on 10 August 2007.

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. Wear waterproof gloves when using 1080. Wash hands after handling baits or animals that have been contaminated with 1080. Do not use poisoned or contaminated animals for food or feed. This product is toxic to wildlife. Birds and mammals feeding on carcasses of contaminated animals may be fatally poisoned. Take measures to minimise the chance of the solution or baits accidentally entering any body of water. Apply the product only as specified by 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 Orillion 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: ADC - January 2021