

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name:** ACTA 1080 Concentrate

**Recommended Use:** For the preparation of 1080 baits to control feral pigs, foxes, rabbits and wild dogs

Distance restrictions apply as per state/territory government legislation.

Only to be used in accordance with the label and any state/territory instructions for 1080 products.

**Note:** This product is only made available to approved purchasers and is not for general use by unqualified persons and must not be made available to unapproved users. This is a restricted chemical substance and must be stored securely.

### Supplier Details

**Company:** Animal Control Technologies (Australia) Pty Ltd  
**Address:** 46-50 Freight Drive Somerton Vic 3062, Australia  
**Telephone number:** 03 9308 9688 (Monday to Friday, 8:00a.m. – 5:00p.m. EST)  
**Emergency telephone number:** Poisons Information Centre 13 11 26 (24 hours)

## 2. HAZARDS IDENTIFICATION

**Hazard classification:** Classified as a hazardous substance according to the criteria of the National Occupational Health & Safety Commission (NOHSC).

Classified as dangerous goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (6<sup>th</sup> Edition).

**Risk phrase(s):** Toxic by inhalation, in contact with skin and if swallowed.

**Safety phrase(s):** Keep locked up and out of reach of children. Keep away from food, drink and animal feeding stuffs. Wear suitable protective clothing and gloves. In case of accident or if you feel unwell, seek medical advice immediately (Show the label where possible). Avoid release into the environment, refer to product label instructions.

**Poisons schedule number:** S7

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Ingredients

<b>Chemical Name:</b>	<b>Common Name:</b>	<b>CAS Number:</b>	<b>Proportion (w/w):</b>
Sodium fluoroacetate	“1080”	62-74-8	30g/kg
Other ingredients not determined to be hazardous		N/A	up to 100%

## 4. FIRST AID MEASURES

<b>First aid:</b>	Speed in treatment is essential. If poisoning occurs, contact a doctor or Poisons Information Centre. Have this MSDS or the label with you.
Swallowed:	Seek immediate medical assistance.
Eye:	If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.
Skin:	If skin contact occurs, remove contaminated clothing and wash skin thoroughly with soap and water. Remove from contaminated area. Apply artificial respiration if not breathing.
Inhaled:	Inhalation risk is minimal with the product which is an aqueous concentrate.
<b>Advice to doctor:</b>	The 1080 bait manufacturing concentrate contains 3% w/w (30g/kg) sodium fluoroacetate ('1080') and is used as a concentrate for the manufacture of baits for control of pest animals in accordance with APVMA approved product label.

It is important to ascertain the route of exposure and the quantity exposed to. Sodium fluoroacetate is readily absorbed by the oral route and acts after metabolic conversion to fluorocitrate by blocking enzymes in the tricarboxylic acid cycle inhibiting metabolic energy production. Organs with high energy requirements such as the heart, diaphragm and brain are most affected. Accumulation of citrate and disturbances in calcium ion levels can lead to symptoms. Early symptoms may include nausea, vomiting, stomach pains, tingling of the nose, numbness of the face, nervousness. More severe symptoms include, convulsions, laboured breathing, excitability, hallucinations and heart attack. Treat symptomatically and supportively. Monitor for electrolyte abnormalities and metabolic acidosis. If caught early induce vomiting, if not emesis is contraindicated because of the potential for arrhythmia and convulsions. Consult poisons control for most up to date information. Sodium fluoroacetate is not readily absorbed through skin and is very water soluble prompt washing in soapy water will minimise risk after accidental skin exposure.

## 5. FIRE FIGHTING MEASURES

Fire & explosion hazards:	The aqueous concentrate is not flammable and will not auto-ignite.
Suitable extinguishing media:	Not applicable as non combustible
Hazards from combustion:	None applicable
Special protective equipment:	Respirator, filter A/P

## 6. ACCIDENTAL RELEASE MEASURES

Spills and Disposal:	Sodium fluoroacetate is water soluble. While wearing elbow-length PVC gloves, mop-up excess liquid using absorbent sponge or towel. Triple rinse and bury rinsate and empty containers in a local authority landfill. If no landfill is available, bury the containers below 0.5m in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers should not be burnt. Do NOT re-use containers for any other purpose. Sodium fluoroacetate is readily degraded by common soil bacteria and moulds. Wash any contaminated areas with soapy water and bury rinsate from washed areas.
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## 7. HANDLING AND STORAGE

Precautions for safe handling: To avoid risks for man and environment the instructions for use are to be followed. Avoid all contact with the product and wear protective clothing and gloves.

Conditions for safe storage: Safe storage is the responsibility of all persons who are supplied with this poison. The product must be stored in the closed, original container in a dry, cool, well ventilated area out of direct sunlight. Store in a locked room away from children, animals, food, feedstuffs, seed and fertilisers at all times, except when required for use.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National exposure standards: Exposure standards allocated for sodium fluoroacetate powder are 0.05mg/m<sup>3</sup> Time weighted average. Short Term Exposure Levels are 0.15mg.m<sup>3</sup>. Avoid direct contact with skin. There is no dust associated with this liquid concentrate.

Biological limit values: No biological limit allocated.

Engineering controls: The product formulation dilutes the concentration of sodium fluoroacetate and reduces the risk of handling sodium fluoroacetate powder. However this product remains extremely poisonous.

Personal protective equipment: When opening the container and using the product wear cotton overalls buttoned to the neck and wrists, a washable hat and elbow-length rubber gloves.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Dark blue liquid.  
Vapour pressure: Not applicable (not volatile on heating)  
Boiling point: 100°C  
Solubility in water: 100%  
Specific gravity: 1.05g/mL

## 10. STABILITY AND REACTIVITY

Chemical stability: Stable for extended periods under normal storage and handling conditions.

Incompatible materials: None applicable

Hazardous decomposition products: No specific data

Hazardous reactions: No specific data

## 11. TOXICOLOGICAL INFORMATION

**Acute toxicity:** Based on the lowest known lethal dose for humans (0.71 mg/kg bw), an 80 kg person would have to consume approximately 1.89g or 1.8ml of product to receive a lethal dose. Lower doses may still cause toxic effects. There is usually period of latency between poisoning and onset of symptoms of between 30 minutes and 3 hours. Neurological effects include convulsion, respiratory depression, tremulousness, hallucinations and coma. Cardiac effects include hypertension then hypotension, arrhythmias, ventricular fibrillation and cardiac failure.

*Acute:*

**Swallowed:** Very poisonous if swallowed. Lethal doses can cause cardiac arrest.

**Eye:** Avoid contact with eyes. Effects not known.

**Skin:** Avoid contact with skin. Studies with rabbits have shown that 1080 is poorly absorbed through the skin.

**Inhaled:** Not applicable to this formulation. There is no inhalation or vapour risk with the liquid product under normal circumstances.

*Chronic:* Long term exposure at high doses may lead to cardiac and or testicular damage. Studies into the effects of chronic (90 day) exposure in rats have found damage to the heart, and in males the testis, at a dose of 0.25mg/kg/day. Though some of this damage may be reversible over time when exposure is removed.

## 12. ECOLOGICAL INFORMATION

Do not contaminate streams, rivers or waterways with the chemical or used containers. Information on non-target animal distribution, conservation status, habitat preference, diet, tolerance to 1080, body weight and size of home range can be used to reduce poisoning risks posed by baiting programs. Time baiting programs when non-target species are least active or least susceptible. Follow approved label directions to minimise risks to non-target animals.

**Ecotoxicity:** Sodium fluoroacetate is toxic to fish but is rapidly diluted in water. Sodium fluoroacetate is readily degraded by common soil bacteria and moulds once baits become wet in soil.

**Persistence and degradability:** The product is biologically degradable and will not accumulate in soil or water.

## 13. DISPOSAL CONSIDERATIONS

Triple rinse and bury rinsate and empty containers in a local authority landfill. If no landfill is available, bury the containers below 0.5m in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers should not be burnt. Do NOT re-use containers for any other purpose.

## 14. TRANSPORT INFORMATION

This product is classified as dangerous goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (6<sup>th</sup> Edition).

UN number:	2810	UN proper shipping name:	Toxic liquid, organic N.O.S. (3% sodium fluoroacetate)
Dangerous Goods Class:	6.1	Subsidiary Risk:	None
Packing group:	II	Hazchem code:	2X

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## 15. REGULATORY INFORMATION

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Poisons schedule number: S7

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## 16. OTHER INFORMATION

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Date of Preparation of this MSDS: 1 June 2008

This Material Safety Data Sheet (MSDS) has been developed using the following references:  
National Code of Practice for the Preparation of Material Safety Data Sheets 2<sup>nd</sup> Edn. [NOHSC:2011(2003)]  
Australian Dangerous Goods Code 6<sup>th</sup> Edn. (1998)  
World Health Organisation (2006) WHO-UNEP Sound management of pesticides and diagnosis and treatment of pesticide poisoning.  
Bruère, A.N., Cooper, B.S. and Dillon, E.A. (1990) *Veterinary Clinical Toxicology*, Continuing Education, Palmerston North, New Zealand.  
Eason, C. and Turck, P. (2002) A 90-day Toxicological evaluation of compound 1080 (Sodium Monofluoroacetate) in Sprague-Dawley rats, *Toxicological Sciences*, vol. 69, pp. 439-447.

**The physical values and properties described in this MSDS are typical values based on scientific literature and material produced to date, and are believed to be reliable. Animal Control Technologies provides no warranties, either expressed or implied and assumes no responsibility for the accuracy or completeness of the data contained herein. The information is supplied upon the condition that the persons receiving information will make their own determination as to the suitability for their purposes prior to use of this product. Due care should be taken to ensure that the use of this product and its disposal is in compliance with all relevant Federal, State and Local Government regulations.**

**End of MSDS**