



Safety Data Sheet (SDS)

1: IDENTIFICATION OF THE SUBSTANCE & SUPPLIER

Product Name: **Croaked™**

Recommended use: Cane toad euthanasia

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Emergency Number: New Zealand 0800 764 766 (New Zealand National Poisons Centre)
Australia 13 11 26 (Poisons Information Centre Australia)

Date of Preparation: September 2018

1: HAZARD(S) IDENTIFICATION

Pictogram:



Signal word:

Warning

Hazard statements

H302	Harmful if swallowed
H315	May cause skin irritation
H317	May cause allergic skin reaction
H319	Causes serious eye irritation
H373	May cause damage to organs through prolonged or repeated exposure

3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Concentration
Eugenol	97-53-0	~ 10%
Other ingredients determined not to be hazardous	-	~ 90%

4: FIRST AID MEASURES

Necessary First Aid Measures:	<p>SKIN CONTACT: Remove contaminated clothing and wash the affected area with soap and water. If irritation occurs or persists, seek medical attention.</p> <p>EYE CONTACT: Immediately rinse eyes thoroughly with plenty of water. If wearing contact lenses, remove only after initial rinse, and continue rinsing eyes for at least 15 minutes. If irritation occurs or persists, consult a doctor.</p> <p>INGESTION: Rinse mouth with water. Give up to two glasses of water or milk. Seek medical advice immediately. Do not induce vomiting without medical advice.</p> <p>INHALATION: Move the victim to fresh air immediately. If irritation occurs or persists, seek medical attention.</p>
Required instructions:	<p>For advice in New Zealand contact the New Zealand National Poisons Centre 0800 POISON (0800 764 766) or a doctor. For advice in the Australia contact the Poisons Information Centre Australia 13 11 26 or a doctor.</p>
Workplace facilities:	<p>Emergency showers and eyewashes may be warranted depending on quantity and type of use.</p>
Hygiene instructions:	<p>Avoid ingestion, inhalation and contact with skin and eyes. Do not eat, drink or smoke while using this product. Wash hands and exposed skin before eating, drinking or smoking and after work. Wash any protective clothing after use.</p>
Notes for Medical Personnel:	<p>Treat symptomatically.</p>

5: FIRE FIGHTING MEASURES

Flammability:	<p>This product is not flammable</p>
Extinguishing media & Methods:	<p>Use water spray, foam, carbon dioxide or dry chemical extinguishers.</p>
Recommended protective clothing:	<p>This product is not flammable but toxic vapours may be released during fire. Wear full protective clothing and self-contained breathing apparatus (SCBA).</p>
Hazchem code:	<p>None allocated</p>

6: SPILLAGE, ACCIDENTAL RELEASE MEASURES

Emergency procedures:	<p>Personnel involved in clean-up should wear appropriate personal protective equipment to minimise exposure. This may include the use of eye protection, chemically resistant gloves, boot and/or overalls.</p> <p>Evacuate the spill area and deny entry to unnecessary and unprotected personnel.</p> <p>Prevent further spillage & prevent material from entering surface water drains or waterways. If a significant quantity of material enters drains, advise emergency services.</p>
Spill Procedure:	<p>Small spills can be wiped up with cloth or paper. Standard absorbants (sand, sawdust, vermiculite, etc) can be used to contain large spills. Wash area with water after mop up.</p>

7: HANDLING & STORAGE

Precautions for Safe Handling:	Avoid contact with skin, & eyes. Keep containers adequately sealed during material transfer, transport, or when not in use.
Regulatory Requirements:	Not applicable.
Handling Practices:	Change work clothes regularly. Avoid ingestion, inhalation and contact with skin and eyes. Do not eat, drink or smoke while using this product. Wash hands and exposed skin before eating, drinking or smoking and after handling.
Approved Handlers:	Not required.
Conditions for Safe Storage:	Keep out of reach of children. Store in original container & keep tightly sealed when not in use.
Storage Site Requirements:	Store below 30°C (Room Temperature) in a cool dry area, away from direct heat or direct sunlight.
Packaging:	HDPE containers.

8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Workplace Exposure Standards:	No WES have been set for this substance.
Application in the Workplace:	Ensure adequate ventilation. Keep container sealed when not in use.
Exposure Standards Outside the Workplace:	No TEL is set for this substance at this time. EEL – Not applicable.
Engineering Controls:	Engineering controls should be used as the primary means to control exposures. Use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits.
Personal Protection:	Wear chemical resistant gloves, overalls, & a face-shield or safety glasses. A respirator may be required if using in confined or poorly ventilated conditions.

9: PHYSICAL & CHEMICAL PROPERTIES

Appearance:	Clear viscous yellow liquid
Odour:	Spicy, woody, sweet, slightly terpenic note
Boiling Point:	No data available
Vapour Pressure:	No data available
Specific Gravity:	1.105 – 1.145
Flash Point:	Data not available
Flammability Limits:	Not available, combustible
Solubility:	Dispersible and slightly soluble in water. Soluble in ethanol

10: STABILITY & REACTIVITY

Stability of the Substance:	Stable under normal temperatures and pressures
Conditions to Avoid:	Avoid high temperatures

Material to Avoid:	Strong oxidisers
Hazardous Decomposition Products:	Carbon monoxide, carbon dioxide

11: TOXICOLOGICAL INFORMATION

Oral:	Eugenol	LD ₅₀ (rats) = 1,930 mg/kg;
	Eugenol	LD ₅₀ (mice) = 3,000 mg/kg;
	Eugenol	LD ₅₀ (guinea pigs) = 2,130 mg/kg
Dermal:	Eugenol	Human, skin: 40 mg/48H mild irritation Rabbit, skin: 100 mg/24H severe irritation
Other Toxicity Info:	Not Available	

12: ECOLOGICAL INFORMATION

Toxicity - Fish:	LC ₅₀ – Flathead minnow - 20 mg/L - 48 h Method: OECD Test Guideline 203
Toxicity - Toxicity to daphnia and other aquatic invertebrates:	EC ₅₀ - Daphnia – 0.74 mg/L - 48 h Method: OECD Test Guideline 202
Persistence and degradability:	Result: - Readily biodegradable. Method: Directive 67/548/EEC Annex V, C.4.E.

13: DISPOSAL CONSIDERATIONS

Disposal:	Incineration or landfill in accordance with local authority & Government regulations.
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14: TRANSPORT INFORMATION

Relevant Information:	No special transport requirements necessary.
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15: REGULATORY INFORMATION

HSNO Approval No.:	HSR003486 (eugenol)
HSNO Controls:	See http://www.epa.govt.nz/search-databases/Pages/controlssearch.aspx for controls.
ACVM Registration No.:	Not available
ACVM Controls:	Not available

16: OTHER INFORMATION

Additional Information: CROAKED™ is a trademark of AQUI-S New Zealand Ltd.

AQUI-S NZ Ltd urges each user or recipient of this SDS to read the entire data sheet to become aware of the potential hazards associated with this material. This SDS summarizes, at the date of issue, our best knowledge of the health and safety hazard information. Although reasonable care has been taken in the preparation of this document, AQUI-S NZ Ltd extend no warranties and make no representations as to the accuracy or completeness of the information contained therein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequence of its use. Each individual should make a determination as to the suitability of the information for their particular purpose(s).