

Infosafe No™ 3CHHJ Issue Date : November 2019 RE-ISSUED by AMBERSCI

Product Name : **AURAMINE CONCENTRATE**

Classified as hazardous

1. Identification

GHS Product Identifier	AURAMINE CONCENTRATE
Product Code	AURA
Company Name	AMBER SCIENTIFIC Pty LTD
Address	24 - 28 Stratton Drive Traralgon Victoria 3844 Australia
Telephone/Fax Number	Tel: (03) 5176 2855
Emergency phone number	CHEMCALL (24 hours): 1800 127 406 (Australia) / +64-4-917-98888 (International)
Recommended use of the chemical and restrictions on use	Laboratory reagent.
Other Information	Amber Scientific Pty Ltd does not warrant that this product is suitable for any use or purpose. The user must ascertain the suitability of the product before use or application intended purpose. Preliminary testing of the product before use or application is recommended. Any reliance or purported reliance upon Amber Scientific Pty Ltd with respect to any skill or judgement or advice in relation to the suitability of this product of any purpose is disclaimed. Except to the extent prohibited at law, any condition implied by any statute as to the merchantable quality of this product or fitness for any purpose is hereby excluded. This product is not sold by description. Where the provisions of Part V, Division 2 of the Trade Practices Act apply, the liability of Amber Scientific Pty Ltd is limited to the replacement of supply of equivalent goods or payment of the cost of replacing the goods or acquiring equivalent goods.

2. Hazard Identification

GHS classification of the substance/mixture	Flammable Liquids: Category 2 Acute Toxicity - Oral: Category 3 Acute Toxicity - Dermal: Category 3 Acute Toxicity - Inhalation: Category 3 Skin Corrosion/Irritation: Category 1B Specific Target Organ Toxicity - Repeated Exposure: Category 2 Germ Cell Mutagenicity: Category 2
Signal Word (s)	DANGER
Hazard Statement (s)	H225 Highly flammable liquid and vapour. H301 Toxic if swallowed. H311 Toxic in contact with skin. H314 Causes severe skin burns and eye damage. H331 Toxic if inhaled. H341 Suspected of causing genetic defects. H373 May cause damage to organs through prolonged or repeated exposure.
Pictogram (s)	Flame, Skull and crossbones, Health hazard, Corrosion



Precautionary statement – Prevention	P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking. P233 Keep container tightly closed. P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ventilating/lighting/.../equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P264 Wash thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area.
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Precautionary statement – Response

P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P281 Use personal protective equipment as required.
 P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
 P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
 P302+P352 IF ON SKIN: Wash with plenty of soap and water.
 P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P363 Wash contaminated clothing before reuse.
 P312 Call a POISON CENTER or doctor/physician if you feel unwell.
 P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 P310 Immediately call a POISON CENTER or doctor/physician.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P308+P313 IF exposed or concerned: Get medical advice/attention.
 P370+P378 In case of fire: Use foam, dry chemical, CO2 or water spray for extinction.
 P403+P235 Store in a well-ventilated place. Keep cool.
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.
 P405 Store locked up.
 P501 Dispose of contents/container to an approved waste disposal plant.

Precautionary statement – Storage

Precautionary statement – Disposal

3. Composition/information on ingredients

Ingredients	Name	CAS	Proportion	Hazard Symbol	Risk Phrase
	Ethyl alcohol	64-17-5	50 %v/v		
	Phenol	108-95-2	30 %		
	Glycerine	56-81-5	20 %		
	Auramine-o	2465-27-2	3.75 %		

4. First-aid measures

Inhalation	If inhaled, remove from contaminated area to fresh air immediately. Apply artificial respiration if not breathing. If breathing is difficult, give oxygen. Consult a physician.
Ingestion	Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed. DO NOT INDUCE VOMITING. Seek medical advice.
Skin	Wash affected areas with copious quantities of water immediately. Remove contaminated clothing and wash before re-use. If swelling, redness, blistering or irritation occurs seek medical advice.
Eye contact	Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. Obtain medical attention immediately.
First Aid Facilities	Maintain eyewash fountain and safety shower in work area.
Advice to Doctor	Treat symptomatically based on judgement of doctor and individual reactions of the patient.
Other Information	For advice, contact a Poisons Information Centre (Phone eg Australia 13 1126; New Zealand 0800 764 766) or a doctor at once.

5. Fire-fighting measures

Hazards from Combustion Products	Oxides of carbon.
Specific Methods	Caution: Use of water spray when fighting fire may be inefficient. Small fire: Use foam, dry chemical, CO2 or water spray. Large fire: Use foam, fog or water spray - Do not use water jets. If safe to do so, move undamaged containers from fire area. Cool containers with flooding quantities of water until well after fire is out.
Specific hazards arising from the chemical	FLAMMABLE: These products have a low flash point - Will be easily ignited by heat, sparks or flames at ambient temperatures. Vapours will form explosive mixtures with air. Vapours will travel to source of ignition and flash back. Fire may produce irritating, poisonous and/or corrosive gases. Containers may explode when heated. Many liquids are lighter than water. Many vapours are heavier than air and will collect in low or confined areas (drains, basements, tanks). Vapours from run-off may create an explosion hazard.
Hazchem Code	•2YE

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Precautions in connection with Fire SCBA and structural firefighter's uniform may provide limited protection. Fully-encapsulating, gas-tight suits should be worn for maximum protection.

6. Accidental release measures

Spills & Disposal ELIMINATE all ignition sources (no smoking, flares, sparks or flame) within at least 50m - All equipment used in handling the product must be earthed. Do not touch or walk through spilled material. Stop leak if safe to do so - Prevent entry into waterways, drains or confined areas. Vapour-suppressing foam may be used to control vapours. Absorb spill with earth, sand or other non-combustible material - Use clean, non-sparking tools to collect material and place it in loosely-covered metal or plastic containers for later disposal. Water spray may be used to knock down or divert vapour clouds. SEEK EXPERT ADVICE ON HANDLING AND DISPOSAL.

Personal Precautions Evacuate the area of all non-essential personnel. Remove ignition sources Avoid inhalation, contact with skin, eyes and clothing.

Personal Protection Wear protective clothing specified for normal operations (see Section 8)

Clean-up Methods - Small Spillages Absorb or contain liquid with sand, earth or spill control material. Shovel up using non sparking tools and place in a labelled, sealable container for subsequent safe disposal. Put leaking containers in a labelled drum or overdrum.

7. Handling and storage

Precautions for Safe Handling Avoid fumes.
Highly Flammable Material:-
Do not use near any source of ignition.
Use only in a well ventilated area.
No smoking or eating of food in area of use.
Keep containers tightly closed at all times.
Open containers slowly to avoid sudden pressure release.
Material will accumulate Static Charge, bulk containers should be electrically grounded.
Store in a cool dry place that is well ventilated and away from direct sunlight.
Storage for greater than minimal quantities must be in an Approved Flammable Material Cabinet.
Bulk Storage greater than 200 Litres must be in an Approved Bulk Storage Store, fully bunded and ventilated.
Empty containers must be filled with water and rinsed out before disposal or recommissioning.
Wear Safety glasses, gloves and protective apron.
Work in an area of good ventilation, an approved fume cupboard is preferred.
Ensure electrical devices are flash/flame proofed.
No eating or drinking in workplace, wash hands whenever leaving work area.

Conditions for safe storage, including any incompatibilities Keep in a cool, well-ventilated place Keep away from heat and other sources of ignition. Store away from oxidizing agents. Store away from strong acids. Keep containers securely sealed and protected against physical damage. Do not store in pits or basements where vapours may become entrapped. Do not store in aluminium containers. Take precautionary measures against static electricity discharges.

Storage Regulations Refer Australian Standard AS 1940-2017 'The storage and handling of flammable and combustible liquids'.

8. Exposure controls/personal protection

Occupational exposure limit values	Name	STEL		TWA		Footnote
		mg/m3	ppm	mg/m3	ppm	
	Ethyl alcohol			1880	1000	
	Phenol			4	1	
	Glycerine			10		

Other Exposure Information These Workplace Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These workplace exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.
The exposure value at the TWA is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week.
The STEL is an exposure value that should not be exceeded for more than 15 minutes and should not be repeated for more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The exposure value at the TWA is the average airborne concentration of a

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Appropriate engineering controls	particular substance when calculated over a normal 8 hour working day for a 5 day working week. In industrial situations maintain the concentrations values below the TWA. This may be achieved by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. These methods should be used in preference to personal protective equipment.
Respiratory Protection	Where ventilation is not adequate, respiratory protection may be required. Avoid breathing vapours or mists. Select and use respirators in accordance with AS 1716 - Respiratory Protective Devices and be selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. When mists or vapours exceed the exposure standards then the use of the following is recommended: Approved respirator with organic vapour and dust/mist filters. Filter capacity and respirator type depends on exposure levels.
Eye Protection	The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336.
Hand Protection	Wear gloves of impervious material conforming to AS/NZS 2161: Occupational protective gloves - Selection, use and maintenance. Final choice of appropriate glove type will vary according to individual circumstances. This can include methods of handling, and engineering controls as determined by appropriate risk assessments. Avoid skin contact when removing gloves from hands, do not touch the gloves outer surface. Dispose of gloves as hazardous waste.
Personal Protective Equipment	Personal protective equipment should not solely be relied upon to control risk and should only be used when all other reasonably practicable control measures do not eliminate or sufficiently minimise risk. Guidance in selecting personal protective equipment can be obtained from Australian, Australian/New Zealand or other approved standards.
Hygiene Measures	Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

9. Physical and chemical properties

Appearance	Liquid.
Colour	Yellow
Odour	Phenolic.
Flash Point	~24°C
Flammability	Flammable liquid.
Flammable Limits - Lower	3.5% (100% ethanol)
Flammable Limits - Upper	19% (100% ethanol)

10. Stability and reactivity

Chemical Stability	Stable under normal use conditons.
Conditions to Avoid	Heat, sparks, flame and build-up of static electricity.
Incompatible Materials	Oxidising agents, peroxides, strong acids, Strong bases, acid chlorides, acid anhydrides, alkali metals and ammonia.
Hazardous Decomposition Products	May liberate toxic fumes in fire producing carbon monoxide and or carbon dioxide.
Hazardous Polymerization	Will not occur.

11. Toxicological Information

Acute Toxicity - Oral	LD50 (rat): 7060 mg/kg - Ethanol LD50 (rat): 317 mg/kg - Phenol
Acute Toxicity - Dermal Ingestion	LD50 (rat): 669 mg/kg - Phenol
Inhalation	Harmful if swallowed. May cause nausea, vomiting, headache, dizziness, gastric irritation and CNS depression. May cause severe irritation, swelling, burning pain in mouth and throat, burns and damage to the mouth, throat and stomach. May cause perforation of the digestive tract. Causes digestive tract burns with immediate pain, swelling of the throat. Toxic by inhalation. May cause severe irritation of nose, throat, respiratory tract and lungs with coughing, burns and breathing difficulty. Breathing vapour or mist may result in digestive disturbances (vomiting, difficulty in swallowing, nausea, vomiting, diarrhoea, loss of appetite).

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Skin	Toxic in contact with skin. Corrosive following skin contact. Skin contact and absorption is the most common route of occupational exposure. Direct skin contact may result in white, wrinkled discolouration, followed by severe burns, but may be disguised by a loss in pain sensation due to local anesthetizing effects (can cause numbness or slight tingling).
Eye	Risk of serious damage to eyes. Corrosive to the eyes. Can cause severe irritation, eye burns, redness, pain, blurred vision and permanent damage.
Carcinogenicity	Ethanol [61-17-5] in alcoholic beverages are evaluated in the IARC Monographs (Vol. 96) as Group 1: Carcinogenic to humans, (based on effects of drinking alcoholic beverages). Safe Work Australia does not classify ethanol as a carcinogen.
STOT-repeated exposure	Specific Target Organ Toxicity - Repeated Exposure: Category 2 H373 May cause damage to organs through prolonged or repeated exposure.
Mutagenicity	Germ Cell Mutagenicity: Category 2 H341 Suspected of causing genetic defects.

12. Ecological information

Bioaccumulative Potential	No bioaccumulation potential.
Short Summary of Assessment of Environmental Impact	No environmental hazard is anticipated provided that the material is handled and disposed of with due care and attention. No ecological problems are to be expected when the product is handled and used with due care and attention.
Environmental Protection	Do not allow product to enter drains, waterways or sewers.

13. Disposal considerations

Disposal Considerations	Whatever cannot be saved for recovery or recycling should be disposed of according to relevant local, state and federal government regulations.
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14. Transport information

Transport Information	Dangerous goods of Class 3 (Flammable Liquid) are incompatible in a placard load with any of the following: Class 1, Class 2.1, if both the Class 3 and Class 2.1 dangerous goods are in bulk, Class 2.3, Class 4.2, Class 5, Class 6, if the Class 3 dangerous goods are nitromethane, Class 7.
U.N. Number	1992
UN proper shipping name	FLAMMABLE LIQUID, TOXIC, N.O.S. - (Contains Ethanol 50%, Phenol 30%)
Transport hazard class(es)	3
Sub.Risk	6.1
Hazchem Code	•2YE
Packing Group	II
EPG Number	3A2
IERG Number	16

15. Regulatory information

Regulatory Information	Not listed under WHS Regulation 2011, Schedule 10 - Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals. All of the significant ingredients in this formulation are compliant with NICNAS regulations.
Poisons Schedule	S6

16. Other Information

Literature References	'Standard for the Uniform Scheduling of Medicines and Poisons.', Commonwealth of Australia. Lewis, Richard J. Sr. 'Hawley's Condensed Chemical Dictionary 13th. Ed.', Rev., John Wiley and Sons, Inc., NY, 1997. National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.', 2007. Safe Work Australia, 'National Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals', 2011. Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide',
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**Contact
Person/Point**

Standards Australia/Standards New Zealand, 2010.
Safe Work Australia, 'Approved Criteria for Classifying Hazardous Substances [NOHSC:1008 (2004)]'.
Safe Work Australia, 'Hazardous Chemical Information System, 2005'.
Safe Work Australia, 'National Code of Practice for the Labelling of Safe Work Hazardous Substances (2011)'.
Safe Work Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995) 3rd Edition]'.
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