

# Safety Data Sheet

## 1. IDENTIFICATION OF THE MATERIAL AND MANUFACTURER

**Product Name:** AQUAMATE®  
**Intended Use:** Irrigation Water Treatment  
**Details of Company:** Advanced Nutrients Pty Ltd  
13 Hinkler Court  
Brendale. QLD. 4500  
Ph: 07 3448 0051  
Email: service@advancednutrients.com.au  
**Emergency Contact:** +61 427 908 329

## 2. HAZARDS IDENTIFICATION

**Classification:** Not Classified  
**Label Elements:** The substance is classified and labelled according to the Globally Harmonised System (GHS).  
**Hazardous Pictograms:** None  
**Signal Word:** None  
**Hazard Statements:** Causes mild skin and eye irritation  
**Precautionary Statements:** If swallowed, seek immediate medical advice.  
**Safety Phrase:** Keep out of Reach of Children. Keep container tightly closed.  
**Dangerous Goods:** NOT dangerous goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance Form	MIXTURE	
Substance Name:	CAS	%
Yeast Extract	8013-01-2	85-95%
Alcohols, C11-15-Secondary, Ethoxylated, Butoxylated	68131-40-8	4-5%
Alcohols, C12-14-secondary, ethoxylated	84133-50-6	1-4%

## 4. FIRST AID MEASURES

**GENERAL:** Acidic solution, may irritate gastro-intestinal tract, eyes and skin.  
**SWALLOWED:** Drink plenty of water. Do not induce vomiting. Seek medical advice  
**EYE:** Rinse with plenty of water for 15 minutes. Seek medical advice  
**SKIN:** Rinse with plenty of water for 15 minutes. Seek medical advice  
**INHALED:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical advice  
**ADVICE TO DOCTOR:** First aider: Pay attention to self-protection!. Concerning personal protective equipment to use, see section 8. Never give anything by mouth to an unconscious person. In case of doubt or persistent

# Safety Data Sheet

symptoms, consult always a physician. Show this safety data sheet to the doctor in attendance. Treat symptomatically.

## 5. FIRE FIGHTING MEASURES

FLAMMABILITY:	Non flammable.
EXTINGUISHING MEDIA:	Use extinguishing media suitable for surrounding fire.
FIRE / EXPLOSION HAZARD:	This is not a flammable material in its usual liquid form. In smoke or fumes wear self-contained breathing apparatus. Advise fire brigade of any hazard. Suitable for most extinguishing media.
HAZCHEM Code:	None allocated

## 6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS	Wear SWA approved self-contained breathing apparatus and full protective clothing. For further details refer to section 8.
ENVIRONMENTAL PRECAUTIONS	In the event of a major spill, prevent spillage from entering drains or water courses. Spills to soil or similar surface may necessitate removal of top soil. The affected area should be placed in appropriate container for disposal
CONTAINMENT AND CLEANING	Clean up all spills immediately. Stop leak if safe to do so and absorb spill onto sand, earth, vermiculite or some other inert absorbent material. Collect the spilled material and place into a suitable container for disposal.

## 7. HANDLING AND STORAGE

VENTILATION:	Ensure ventilation is adequate to maintain air concentrations below exposure standards and as low as is reasonably practicable. While good natural ventilation may be adequate in most cases, local exhaust ventilation may be required.
PERSONAL PROTECTION:	Protective equipment must be worn: PVC gloves, waterproof apron, safety boots and a full-face shield. Avoid breathing dust or vapours.
FLAMMABILITY:	Protect from heat sources as drying up of this material may release dust that can form dust explosions. Dried material may also burn like charcoal.
STORAGE AND TRANSPORT:	This is a non-dangerous good. Store away from combustible materials, food, herbicides & fungicides. Store in well-sealed container in cool dry place. Store between 4°C - 40°C
OTHER INFORMATION:	Avoid contact with acids.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE STANDARDS:	No exposure standard for this product has been set.
VENTILATION:	Ensure ventilation is adequate to maintain air concentrations below exposure standards and as low as is reasonably practicable. While good natural ventilation may be adequate in most cases, local exhaust ventilation may be required.
PERSONAL PROTECTION:	Protective equipment must be worn: PVC gloves, waterproof apron, safety boots (AS/NZS 2161;2210) and full-face shield (AS/NZS 1336,1337).

# Safety Data Sheet

## WORK HYGIENE

Avoid breathing dust or vapours. Masks must be properly fitted and comply with Australian Standards AS/NZS 1715;1716 "Selection, use and maintenance of respiratory protective devices."

Do not eat, drink or smoke when using this product. Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Remove contaminated clothing and protective equipment before entering eating areas. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>APPEARANCE:</b>	Brown liquid
<b>SPECIFIC GRAVITY / BULK DENSITY:</b>	1.02
<b>pH (NEAT):</b>	3 - 4
<b>SOLUBILITY IN WATER:</b>	soluble
<b>ODOUR:</b>	slight metallic
<b>BOILING POINT:</b>	>100°C
<b>VAPOUR PRESSURE:</b>	as water
<b>PERCENT VOLATILES:</b>	nonvolatile
<b>FLASH POINT:</b>	>93°C
<b>FLAMMABILITY LIMITS:</b>	nonflammable
<b>AUTOIGNITION TEMPERATURE:</b>	nonflammable
<b>SHELF LIFE:</b>	2 years

## 10. STABILITY AND REACTIVITY

<b>REACTIVITY:</b>	Non reactive
<b>STABILITY:</b>	Stable at ambient temperature and under normal conditions of use.
<b>MATERIALS TO AVOIDS:</b>	Avoid contact with strong bases, strong oxidising agents as product may decompose. Fire/Heat: May dry and burn with high temperature.
<b>HAZARDOUS DECOMPOSITION:</b>	Under normal conditions of storage and use, hazardous decomposition products should not be produced. In case of fire, decomposition product are CO, CO <sub>2</sub> .

## 11. TOXICOLOGICAL INFORMATION

**This product is generally considered to be of low toxicity. Use safe work practices.**

<b>SWALLOWED:</b>	Ingestion may cause diarrhea, nausea, vomiting and cramps. Irritation to mouth and throat.
<b>EYE:</b>	An irritant to eyes.
<b>SKIN:</b>	Irritation may result from prolonged and repeated exposure or contact with the concentrate.
<b>INHALED:</b>	Breathing in mist or vapours may result in respiratory irritation. Side effects of inhalation of spray mists can include nausea, headaches, pain and gastrointestinal irritation
<b>ACUTE TOXICITY – ORAL:</b>	Rat Oral LD <sub>50</sub> >5,000 mg/kg
<b>ACUTE TOXICITY – DERMAL:</b>	Rabbit Dermal LD <sub>50</sub> >2000 mg/kg
<b>ACUTE TOXICITY – INHALATION:</b>	No data available

## 12. ECOLOGICAL INFORMATION

# Safety Data Sheet

TOXICITY	LC50 – Fish For this family of materials: LC50, fathead minnow (Pimephales promelas), static, 96 hrs. 100% survival rate at 1ppm. Marine environment: The marine invertebrate species, Mysidopsis bahia (Americamysis bahia) and the marine vertebrate species, Menidia beryllina were used in the tests. For the marine invertebrate species, 48-Hour Acute Mysidopsis bahia survival test results: LC-50 -316.23 (ppm). The 96-Hour LC-50 (concentration at which 50% mortality is expected to occur) Menidia beryllina survival data was 203.04 (ppm).
PERSISTENCE	readily biodegradable; > 58 % 48h, OECD 302B. > 75% - 28 Days.
BIOACCUMULATIVE	Low Potential
MOBILITY	Water soluble, it may be mobile and may leach through soil.
ADVERSE EFFECTS	Avoid contaminating waterways. This material has a low pH and release of large volumes into aquatic systems may lower the pH resulting in harm to aquatic life

## 13. DISPOSAL CONSIDERATIONS

DISPOSAL:	Rinse packaging thoroughly and add to spray tank. Recycle bulk containers. Beneficial reuse is the most preferred option of disposal for degraded or non-harmful contaminated fertilisers. Fertilizers contaminated with harmful substances (chemicals, hydrocarbons, etc.) must be disposed in accordance with advice from the relevant Waste Management Authority.
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**ALWAYS DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS**

## 14. TRANSPORT INFORMATION

TRANSPORT:	This product is not classed as a hazardous or dangerous good for transport by the ADG Code, IMDG Code, IATA.
STORAGE & TRANSPORT:	It is recommended not to transport agricultural chemicals with foods, food related products and animal feed. Store undercover at >4°C - <50°C
UN NUMBER:	N/A
D.G. CLASS:	N/A
SUBSIDIARY RISK:	NONE
HAZCHEM CODE:	N/A
PACKAGING GROUP:	N/A
POISONS SCHEDULE:	N/A

## 15. REGULATORY INFORMATION

Classifications:	Safe Work Australia criteria is based on the Globally Harmonised System (GHS) of Classification and Labelling of Chemicals (GHS Revision 7).
Inventory Listings:	AUSTRALIA: AIIC (Australian Inventory of Industrial Chemicals). All components are listed on AIIC, or are exempt.

## 16. OTHER INFORMATION

# Safety Data Sheet

SDS Creation Date: 20/10/2024 Issue Number: v7.1  
Customer Service: 1800 244 099 (This Issue Number replaces all previous issues)  
Australian Poisons Info Centre: 13 11 26

## Abbreviations

ADG Australian Code for the Transport of Dangerous Goods by Road & Rail  
CAS # Chemical Abstract Service number - used to uniquely identify chemical compounds  
EC No. European Community Number  
GHS Globally Harmonized System  
IATA International Air Transport Association  
IMDG International Maritime Dangerous Goods Code  
LC50 Lethal Concentration, 50% / Median Lethal Concentration  
LD50 Lethal Dose, 50% / Median Lethal Dose  
OEL Occupational Exposure Limit  
pH relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline).  
ppm Parts Per Million  
STEL Short-Term Exposure Limit  
STOT-RE Specific target organ toxicity (repeated exposure)  
STOT-SE Specific target organ toxicity (single exposure)  
SWA Safe Work Australia

The product should not be used for purposes other than shown in Section 1 without first referring to the supplier and obtaining written instructions. As specific conditions of use of the product are outside of the suppliers' control, the user is responsible for ensuring that the requirements of the relevant legislation are complied with. The information in this Safety Data Sheet is based on the present knowledge and current national legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as a guarantee of technical performance or suitability for particular applications. This SDS will be revised and updated as requirements occur. Should further information and relevant advice be required, contact Advanced Nutrients Pty Ltd.