

# Material Safety Data Sheet

**ADVANCE GOLD**

## 1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY:

PRODUCT NAME: **ADVANCE GOLD**  
MANUFACTURER: Zelam Ltd  
SUPPLIER NAME: Zelam Ltd  
SUPPLIER ADDRESS: 13-15 Hudson Rd, Bell Block, New Plymouth, New Zealand  
SUPPLIER PHONE: +64 6 7559234 SUPPLIER FAX: +64 6 7551174  
EMERGENCY PHONE: 0800 243 622, 0800 CHEMCALL INTERNATIONAL EMERGENCY PHONE: +64 3 353 0199  
CHEMICAL FAMILY: Organic acid USE: Bud breaker

## 2. HAZARDS IDENTIFICATION:

6.1D; Harmful - may be harmful if swallowed, inhaled or absorbed through the skin.  
6.3A; Harmful - may cause skin irritation. Avoid contact with skin.  
8.3A; Danger - this product is corrosive and may cause eye damage.  
9.1A; Very toxic to aquatic organisms with long-lasting effects. Avoid contamination of any water supply.  
9.3C; Harmful to terrestrial vertebrates [birds].  
Refer to Section 15 for NZ EPA Requirements.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS:

COMMON NAME:	CAS NUMBER:	CONCENTRATION %:	HAZARD CLASSIFICATIONS:
Salicylic acid	69-72-7	<15	R22, R41
Inerts		Balance	

## 4. FIRST - AID MEASURES:

EYE CONTACT: Hold eyelids open and immediately flush eyes with flowing water for at least 15 minutes. Get prompt medical attention.

SKIN CONTACT: Wash with plenty of soap and flowing water for at least 15 minutes while removing contaminated clothing. DO NOT scrub skin. Wash clothing before reuse.

INHALATION: Avoid inhalation of spray or mists which are likely to be highly irritating. Remove to a source of fresh air and seek medical advice.

INGESTION: If swallowed, rinse mouth with water immediately. DO NOT induce vomiting. Seek medical attention.

NOTES TO DOCTOR: No specific antidote. Treat symptomatically.

## 5. FIRE FIGHTING MEASURES:

FLASHPOINT: Not applicable. HAZCHEM CODE: 2X  
FLAMMABLE LIMITS: Not applicable.  
EXTINGUISHING MEDIA: Water spray (fog), Foam, Carbon dioxide or Dry chemical.  
THERMAL DECOMPOSITION PRODUCTS: Vapours may be toxic. Self contained breathing apparatus required.  
SPECIAL FIRE FIGHTING METHODS: Do not allow contaminated run-off to enter drains.  
UNUSUAL FIRE OR EXPLOSION HAZARDS:

## 6. ACCIDENTAL RELEASE MEASURES:

Use appropriate protective equipment. Clear area of unnecessary personnel. Extinguish any sources of ignition. Spills may be slippery and should be cleaned up immediately.  
Large spill: Dike and pump as much as possible to a salvage container. Absorb the remaining liquid and any small spills with clay granules, sand or other absorbent material and sweep to a waste container. Cover the spill area with water and absorb. Minimise run-off into waterways or drains.

## 7. HANDLING AND STORAGE:

Harmful - Keep out of reach of children.  
Store in original container, tightly closed away from food, food related materials, animal feedstuffs, seed or fertilizer.  
Chemical resistant gloves and eye protection should be worn when handling this product. Recommended to have a source of fresh water available for flushing skin and eyes.  
Wear other personal protective equipment appropriate to the situation when handling product. Wash protective clothing daily after work.  
If it is necessary to enter the treated area before the spray has dried, appropriate PPE must be worn. The person in charge of the application is required to take all reasonable steps to ensure that those in the area take the appropriate precautions.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION:

EXPOSURE LIMITS: No exposure limits (WES, TEL, or EELs) have been specifically assigned for this product.  
EYE PROTECTION: Avoid contact with eyes. Wear a face shield or full chemical workers goggles when there is a risk of a splash.  
RESPIRATORY PROTECTION: Avoid breathing in mist or aerosol from the product. Use an appropriate respirator if exposed to the mist or aerosol from the product.  
PROTECTIVE CLOTHING: Avoid skin contact. If skin contact or contamination of clothing is likely, protective clothing [impervious gloves, waterproof hat, coat, trousers and boots] should be worn.  
Wash protective clothing daily after work.  
VENTILATION: General (mechanical) room ventilation is considered satisfactory.  
HYGIENE PRECAUTIONS: Do not eat drink or smoke while working with this product. Remove clothing that becomes soaked or contaminated and wash before reuse. Wash hands before breaks and after work. The use of a skin barrier cream is useful to give additional skin protection.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE / STATE / ODOUR:	Clear dark brown liquid		
BOILING POINT:	Not available	pH:	6 - 8
DENSITY:	1.04	SETTING POINT:	Not available
DECOMPOSITION TEMP:	Not available	AUTOIGNITION TEMP:	Not applicable.
FLASHPOINT:	Not applicable.	VAPOUR DENSITY:	Not available
EXPLOSION PROPERTIES:	Not applicable.	VAPOUR PRESSURE:	Not available
SOLUBILITY:	Soluble in water		
OTHER DATA:			
OCTANOL / WATER PARTITION COEFFICIENT:	Not available		

## 10. STABILITY AND REACTIVITY:

CONDITIONS TO AVOID:	Product is stable under normal temperatures and pressures.
MATERIALS TO AVOID:	Incompatible with alkalis, caustics and oxidising agents.
HAZARDOUS DECOMPOSITION	No data

## 11. TOXICOLOGICAL INFORMATION:

ACUTE ORAL:	No data
ACUTE DERMAL:	No data
ACUTE INHALATION:	No data
OTHER TOXICITY INFORMATION:	

No chronic effects are anticipated. Ingestion of large quantities may lead to nausea and vomiting. Irritation will probably occur after contact with eyes and skin, and after inhalation of the mist.

## 12. ECOLOGICAL INFORMATION:

Very Toxic to aquatic organisms with long lasting effects. Avoid contamination of any water supply with this product or empty container.  
Harmful to terrestrial vertebrates [birds]

## 13. DISPOSAL CONSIDERATIONS:

Triple rinse empty container and add rinsate to the spray tank. If recycling, discard cap and deliver clean container to an Agrecovery depot. Alternatively crush and bury in an approved landfill.  
Dispose of product only by using according to this label, or at an approved disposal facility.  
Avoid contamination of any water supply or stream with product or empty container.

## 14. TRANSPORT INFORMATION:

Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (Salicylic acid)		
UN Number:	3082	UN Hazard Class:	9
Packing Group:	III	Hazchem Code:	2X
Additional Information:	IATA Special Provision A197 applies for containers 5L or less (not restricted).		

## 15. REGULATORY INFORMATION:

APPROVED HANDLER: The product must be under the personal control of an approved handler when:

- the product is applied in a wide dispersive manner; or
- used by a commercial contractor.

However, it may be handled by a person who is not an approved handler if:

- an approved handler is present at the facility where the substance is being handled; and
- the approved handler has provided guidance to the person in respect to the handling of the product; and
- the approved handler is available at all times to provide assistance if necessary.

This product shall NOT be applied onto or into water and shall be applied via ground-based methods only.

If it is necessary to enter the treated area before the spray has dried, appropriate PPE must be worn. The person in charge of the application is required to take all reasonable steps to ensure that those in the area take the appropriate precautions.

RECORD KEEPING: A written record of use is required if 3 kg or more of this product is used within 24 hours in a place where:

- public may lawfully be present; or
- the substance is likely to enter air or water supply and leave the place where it is under control.

The information must be kept for a minimum of three [3] years.

Approved pursuant to the HSNO Act 1996. NZ EPA Approval Code: HSR101088 See <www.epa.govt.nz> for controls.

Registered pursuant to the ACVM Act 1997. ACVM Pesticide No: P009164 See <www.nzfsa.govt.nz> for registration conditions.

## 16. OTHER INFORMATION:

The data given here is based on current knowledge and experience. The purpose of this safety data sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the product's properties.

# Material Safety Data Sheet

## ADVANCE GOLD ACTIVATOR

### 1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY:

PRODUCT NAME: **ADVANCE GOLD ACTIVATOR**  
MANUFACTURER: Zelam Ltd  
SUPPLIER NAME: Zelam Ltd  
SUPPLIER ADDRESS: 13-15 Hudson Rd, Bell Block, New Plymouth, New Zealand  
SUPPLIER PHONE: +64 6 7559234 SUPPLIER FAX: +64 6 7551174  
EMERGENCY PHONE: 0800 243 622, 0800 CHEMCALL INTERNATIONAL EMERGENCY PHONE: +64 3 353 0199  
CHEMICAL FAMILY: Inorganic salts USE:

### 2. HAZARDS IDENTIFICATION:

6.1D; Harmful - may be harmful if swallowed, inhaled or absorbed through the skin.  
6.3B; Harmful - may cause skin irritation. Avoid contact with skin.  
8.3A; Danger - this product is corrosive and may cause eye damage.  
9.3C; Harmful to terrestrial vertebrates [birds].  
Refer to Section 15 for NZ EPA Requirements.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS:

COMMON NAME:	CAS NUMBER:	CONCENTRATION %:	HAZARD CLASSIFICATIONS:
Urea	57-13-6	<40	
Nitric acid, ammonium calcium salt	15245-12-2	<40	
Inerts		Balance	

### 4. FIRST - AID MEASURES:

EYE CONTACT: Hold eyelids open and immediately flush eyes with flowing water for at least 15 minutes. Get prompt medical attention.

SKIN CONTACT: Wash with plenty of soap and flowing water for at least 15 minutes while removing contaminated clothing. DO NOT scrub skin. Seek medical attention if irritation persists. Wash clothing before reuse.

INHALATION: Avoid inhalation of spray or mists which are likely to be highly irritating. If ill-effects occur, move the victim to fresh air. If ill effects persist, seek medical assistance.

INGESTION: If swallowed, rinse mouth with water immediately. DO NOT induce vomiting. Seek medical attention.

NOTES TO DOCTOR: No specific antidote. Treat symptomatically.

### 5. FIRE FIGHTING MEASURES:

FLASHPOINT: Not applicable. HAZCHEM CODE: 2 [Z]  
FLAMMABLE LIMITS: Not applicable.  
EXTINGUISHING MEDIA: Water spray (fog), Foam, Carbon dioxide or Dry chemical.  
THERMAL DECOMPOSITION PRODUCTS: Vapours may be toxic. Self contained breathing apparatus required.  
SPECIAL FIRE FIGHTING METHODS: Do not allow contaminated run-off to enter drains.  
UNUSUAL FIRE OR EXPLOSION HAZARDS:

### 6. ACCIDENTAL RELEASE MEASURES:

Use appropriate personal protective equipment such as gloves protective eye glasses and impervious vinyl or tyvec outer clothing. Spills may be slippery and should be cleaned up immediately. Clear area of unnecessary personnel. Use appropriate protective equipment.  
Large spill: Dike and pump as much as possible to a salvage container. Absorb the remaining liquid and any small spills with clay granules, sand or other absorbent material and sweep to a waste container. Cover the spill area with water and absorb. Minimise runoff into waterways or drains.

### 7. HANDLING AND STORAGE:

Harmful - Keep out of reach of children.  
Store in original container, tightly closed away from food, food related materials, animal feedstuffs, seed or fertilizer.  
Chemical resistant gloves and eye protection should be worn when handling this product. Recommended to have a source of fresh water available for flushing skin and eyes.  
Wear other protective equipment appropriate to the situation when handling product. Wash protective clothing daily after work.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION:

EXPOSURE LIMITS: No exposure limits (WES, TEL, or EELs) have been specifically assigned for this product.  
EYE PROTECTION: Avoid contact with eyes. Wear a face shield or full chemical workers goggles when there is a risk of a splash.  
RESPIRATORY PROTECTION: Avoid breathing in mist or aerosol from the product. Use an appropriate respirator if exposed to the mist or aerosol from the product.  
PROTECTIVE CLOTHING: Avoid skin contact. If skin contact or contamination of clothing is likely, protective clothing [impervious gloves, waterproof hat, coat, trousers and boots] should be worn. Wash protective clothing daily after work.  
VENTILATION: General (mechanical) room ventilation is considered satisfactory.  
HYGIENE PRECAUTIONS: Do not eat drink or smoke while working with this product. Remove clothing that becomes soaked or contaminated and wash before reuse. Wash hands before breaks and after work. The use of a skin barrier cream is useful to give additional skin protection.

# Material Safety Data Sheet

## ADVANCE GOLD ACTIVATOR

### 9. PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE / STATE / ODOUR:	Clear colourless liquid		
BOILING POINT:	Not available	pH:	6 - 8
DENSITY:	1.2	SETTING POINT:	Not available
DECOMPOSITION TEMP:	Not available	AUTOIGNITION TEMP:	Not applicable
FLASHPOINT:	Not applicable	VAPOUR DENSITY:	Not available
EXPLOSION PROPERTIES:	Not applicable	VAPOUR PRESSURE:	Not available
SOLUBILITY:	Soluble in water		
OTHER DATA:			
OCTANOL / WATER PARTITION COEFFICIENT:	Not available		

### 10. STABILITY AND REACTIVITY:

CONDITIONS TO AVOID:	Product is stable under normal temperatures and pressures. Do not allow to freeze, store above 5 °C.
MATERIALS TO AVOID:	None known.
HAZARDOUS DECOMPOSITION	None known.

### 11. TOXICOLOGICAL INFORMATION:

ACUTE ORAL:	LD50 Rats: 1435 mg/kg (by calculation)
ACUTE DERMAL:	No data
ACUTE INHALATION:	
OTHER TOXICITY INFORMATION:	

No chronic affects are anticipated. Ingestion of large quantities may lead to nausea, vomiting, thirst and headache. Has diuretic effect. Irritation will probably occur after contact with skin and eyes, and after inhalation of mist.

### 12. ECOLOGICAL INFORMATION:

The product is expected to biodegrade in the environment. Bio-accumulation is considered unlikely.

Harmful to terrestrial vertebrates [birds].

### 13. DISPOSAL CONSIDERATIONS:

Triple rinse empty container and add rinsate to the spray tank. If recycling, discard cap and deliver clean container to an Agrecovery depot. Alternatively crush and bury in an approved landfill.  
Dispose of product only by using according to this label, or at an approved disposal facility.  
Avoid contamination of any water supply or stream with product or empty container.

### 14. TRANSPORT INFORMATION:

Proper Shipping Name:	Not Classified as Dangerous Goods for Transport (Inorganic salts)		
UN Number:	N/A	UN Hazard Class:	N/A
Packing Group:	N/A	Hazchem Code:	2 [Z]
Additional Information:			

### 15. REGULATORY INFORMATION:

This product DOES NOT have Approved Handler, Tracking, or Record Keeping Requirements.

Approved pursuant to the HSNO Act 1996. NZ EPA Approval Code: HSR002571 See <www.epa.govt.nz> for controls.

### 16. OTHER INFORMATION:

The data given here is based on current knowledge and experience. The purpose of this safety data sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the product's properties.