# **Safety Data Sheet**



#### **Advanced Nutrients Bud Ignitor**

### Section 1. Identification

GHS product identifier : Advanced Nutrients Bud Ignitor

Other means of : Product Code: 2360 identification Formula Code: 002A

**Recommended use of the** : A plant nutrient used to obtain faster growth and larger chemical and restriction on yields in all kinds of growing media. Not to be used as food or

**use** feed in any forms

Supplier/Manufacturer's : Advanced Nutrients Ltd.

details : 109-31063 Wheel Ave.

Abbotsford, BC Canada V2T6H1

Tel: (604) 854-6793 Fax: (604) 854-4371 Email: info@advancednutrients.com

www.advancednutrients.com

**Emergency Phone number**: 24 Hour Transportation Emergency Number –

CHEMTREC 1-800-424-9300 U.S.A, Canada, International

### Section 2. Hazard Identification

GHS classification of the substance/mixture : Neither the mixture nor its major constituents are listed in (a) the CLP/GHS database (Table 3.1 and 3.2 of Annex VI to CLP) and (b) OSHA Laws & Regulations (29 CFR - 1910

Subpart Z: Table Z-1 to Z-3) as hazardous materials.

**GHS label elements** 

Pictogram symbol : Not applicable Signal word : Not applicable

**Hazard statement** : No known significant effects or critical hazards.

**Precautionary statement** 

**General** : Read label before use.

Keep out of reach of children.

If medical advice is needed, have product container/label

at hand.

**Prevention**: Wash hands thoroughly after handling.

Do not eat, drink or smoke when using this product.

**Response** : If skin or eye irritation occurs get medical advice/attention.

If in eyes: rinse cautiously with water for several minutes.

**Storage** : Store in cool and dry place.

**Disposal** : Dispose of contents and container in accordance with local,



Other hazards (not covered the GHS

regional, national and international regulations.

Potassium nitrate is used in the manufacture of this product. The US National Fire Protection Association (NFPA) Code 430 (1995) has classified Potassium nitrate as oxidizing material in Class 1, which slightly increase the burning rate of combustible materials, but do not cause spontaneous ignition when it comes in contact with them.

### Section 3. Composition/Information on Ingredients

**Substance/Mixture**: Mixture

Chemical identityCommon name/synonymCAS number and otherNot applicableNot applicable

unique identifiers

Impurities and stabilizing : Not applicable

additives

Ingredient name	CAS	% (w/w)	Classification according to OSHA Law and	
	number		Regulations	
Potassium Nitrate	7757-79-1	3-6	Not classified as hazardous	

The chemical identity of the remaining ingredients and their exact proportions used in the mixture are a proprietary trade secret (protected by the Confidential Business Information – CBI) and, within the current knowledge of the manufacturer and in the concentration applicable, they are not hazardous to health or the environment.

### **Section 4. First-aid Measures**

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**Self-protection of first-** : No special protection is required.

aiders

**General information**: Remove contaminated clothing immediately. In case of

accident or unwellness, seek medical attention immediately.

Inhalation : Remove victim to fresh air and keep at rest in a position

comfortable for breathing. Get medical attention if

symptoms occur.

**Skin contact** : Flush contaminated skin with plenty of water. Get medical

attention if symptoms occur.

**Eye contact**: Immediately flush eyes with plenty of water, occasionally

lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

**Ingestion** : Wash out mouth with water. Remove victim to fresh air and

keep at rest in a position comfortable for breathing. If



material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed:

**Inhalation** : May cause respiratory irritation. Exposure to decomposition

products may cause a health hazard. Serious effects may be

delayed following exposure.

: No known significant effects or critical hazards. Skin contact

**Eye contact** : If in eyes, it causes eye irritation" : May be harmful if swallowed Ingestion

Indication of immediate medical attention and special treatment needed:

Notes to physician Treat symptomatically **Specific treatments** : No specific treatment.

See also toxicological information (Section 11)

### Section 5. Fire-fighting Methods

**Suitable extinguishing** 

media

: Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing** 

media

: None known

Specific hazards arising from

the chemical

No specific fire or explosion hazard. Decomposition products

may include the following materials:

nitrogen oxides phosphorus oxides metal oxide/oxides

**Special protective** 

equipment for fire-fighters

**Special protective** 

precautions for fire-fighters

Firefighters may enter the area if a self-contained breathing

apparatus (SCBA) and a full face piece is worn.

No special protection is required.

#### Section 6. Accidental Release Measures

#### Personal precautions, protective equipment and emergency procedures

For non-emergency

personnel

: Put on appropriate personal protective equipment.

For emergency

personnel

: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-

emergency personnel".

**Environmental precautions** Avoid dispersal of spilled material and runoff and contact

with soil, waterways, drains and sewers. Inform the relevant



authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods and materials for containment and clean up

#### **Small spill**

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Do not absorb in sawdust or other combustible material. It may lead to a fire risk when it dries out. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose via a licensed waste disposal contractor.

#### Large spill

Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Do not absorb in sawdust or other combustible material. It may lead to a fire risk when it dries out. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

### Section 7. Handling and Storage

#### **Precautions for safe handling**

Advice on general hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

#### **Protective measures**

: Put on appropriate personal protective equipment (see Section 8).

## Conditions for safe storage and any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use



appropriate containment to avoid environmental contamination.

### **Section 8. Exposure Controls/Personal Protection**

#### **Control parameters**

**Occupational exposure** 

limits

Not applicable according to OSHA's mandatory PELs in the Z-

**Tables** None

**Biological limit values** 

**Appropriate engineering** 

controls

No special ventilation requirements. Good general

ventilation should be sufficient to control worker exposure

to airborne contaminants.

**Environmental exposure** 

controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the

requirements of environmental protection legislation.

**Individual protection measures** 

**Hygiene measures** 

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. Ensure that eyewash stations and safety showers are close to the

workstation location.

**Personal Protective Equipment (PPE)** 

PPE should be used in conjunction with other control measures, including engineering controls, ventilation and

isolation. See Section 5 (Fire-fighting measures) of the SDS

for specific fire/chemical PPE advice.

Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to

avoid exposure to liquid splashes, mists, gases or dusts.

**Skin protection** 

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this

is necessary. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this

product.

Respiratory protection

Not required under normal conditions of use.

Thermal hazards

None



### **Section 9. Physical and Chemical Properties**

**Appearance (physical state)** : Dark brown, opaque, liquid.

Odor : Seaweed

Odor threshold : Not available

**pH** : 5.6

Melting point/Freezing : -3°C (26.6°F)

point

Initial boiling point and : 100°C (212°F)

boiling range

Flash point : Not applicable
Evaporation rate : Not available
Flammability (solid, gas) : Not flammable
Upper/lower flammability : Not applicable

or explosive limits

Vapor pressure : Not available
Vapor density : Not available
Relative density : 1.06 g/ml

Solubility (ies) : Miscible in water

Partition coefficient: n- : Not available

octanol/water

Auto-ignition temperature : Not applicable

Decomposition temperature : Not available

Viscosity : Not available

### Section 10. Stability and reactivity

**Reactivity** : No specific test data related to reactivity available for this

product or its ingredients.

**Chemical stability** : The product is stable.

Possibility of hazardous : Under normal conditions of storage and use, hazardous

reactions will not occur.

**Conditions to avoid** : Keep from freezing. Avoid contact with skin, eyes or

ingestion.

**Incompatible materials**: Reactive or incompatible with the following materials:

oxidizing materials and acids.

**Hazardous decomposition**: Under normal conditions of storage and use, hazardous

**products** decomposition products should not be produced.



### **Section 11. Toxicological Information**

Acute toxicity				
Ingredient	Toxicity	Species	Dose*	Remark
Potassium Nitrate	Oral LD50	Rat	>2000 mg/kg bw	Harmful if swallowed

Inhalation LC50 Dermal LD50

**Skin corrosion/irritation:** : Not-irritating to the skin.

Serious eye damage/ : Non-irritant.

irritation

**Respiratory or skin**: Non skin sanitizer.

sensitization

Germ cell mutagenicity : There is no data available.

Carcinogenicity : There is no data available.

**Reproductive toxicity** : No adverse effect.

STOT-single exposure
 STOT-repeated exposure
 Aspiration hazard
 There is no data available.
 There is no data available.

The Likely routes of exposure, health effects and Symptoms related to the physical, chemical and toxicological characteristics

Eye contact
 Inhalation
 No known significant effects or critical hazards.
 Skin contact
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.

**Ingestion** : May be harmful if swallowed

Delayed and immediate effects and also chronic effects from short or long term exposure

Short-term exposure

**Potential immediate**: No known significant effects or critical hazards.

effects

**Potential delayed**: No known significant effects or critical hazards.

effects

**Long-term exposure** 

**Potential immediate**: No known significant effects or critical hazards.

effects

**Potential delayed** : No known significant effects or critical hazards.

effects

**Potential Chronic health** : No known significant effects or critical hazards.

effect

**Numerical measures of toxicity** 

**Acute toxicity estimate** 

Oral : There is no data available Inhalation of vapors : There is no data available



### **Section 12. Ecological Information**

**Toxicity** 

Ingredient name Result\* Species Exposure Reference

There is no data available.

Persistence and

: There is no data available

degradability

Bio accumulative potential : There is no data available Mobility in soil : There is no data available

Other adverse effects : No known significant effects or critical hazards

### **Section 13. Disposal Considerations**

### **Disposal of waste methods**

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers

#### **Contaminated packaging**

Empty containers should be recycled or disposed of through an approved waste management facility. Persons conducting disposal, recycling or reclamation activities should follow the information in Section 8 of this SDS.

### **Section 14. Transport Information**

Identification of ingredients according to UN Model Regulations			
UN number	This product is a mixture of ingredients which are not listed as		
UN proper shipping name	'Dangerous Goods' in Chapter 3.2 of UN Recommendations on		
Transport hazard class(es)	the Transport of Dangerous Goods and/or one or more		
Packing group	ingredients are included in the list but their mixture is		
	exempted from the same Regulation based on the Articles		
	2.0.2.5 (C), 2.0.2.7 and 3.3.1 No. 208.		



Special precaution for user	Transport within user's premises: always transport in closed	
	containers that are upright and secure. Ensure that persons	
	transporting the product know what to do in the event of an	
	accident or spillage.	
Transport in bulk	Not applicable (≤ 1000L-container)	

#### **Environmental hazards**

Ingredient's name	IMDG	UN	ADR	RID	ADN
Potassium Nitrate	No	No	No	No	No

### **Section 15. Regulatory Information**

Safety, health and environmental regulations	:	Not known
specific for the product in question		

### Section 16. Other Information

Prepared by : Department of Product Development, Advanced Nutrients

Ltd., Canada

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Key Acronyms

ADN : The European Agreement concerning the International

Transport of Dangerous Goods by Inland Waterways

ADR : The European Agreement concerning the International

Carriage of Dangerous Goods by Road

BW : Body Weight

IATA : International Air Transport Association shipment of

**Dangerous Goods Regulation** 

IMDG : International Maritime Dangerous Goods code

RID : The Regulation concerning the International Carriage of

Dangerous Goods by Rail

SDS Safety Data Sheet

#### **Key Literature References:**

Convention concerning International Carriage by Rail (COTIF) Appendix C – Regulation concerning the International Carriage of Dangerous Goods by Rail (RID), with effect from 1 January 2013. Intergovernmental Organization for International Carriage by Rail (OTIF). Berne, Switzerland, 2012.

European Chemical Agency (ECHA) 2015. Information on Chemicals: Registered substances <a href="http://echa.europa.eu/information-on-chemicals/registered-substances">http://echa.europa.eu/information-on-chemicals/registered-substances</a>.



- Online Database. Accessed on March 16, 2015.
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- Globally Harmonized System of Classification and Labelling of Chemicals. 5<sup>th</sup> Edition. ST/SG/AC. 10.30/Rev. 5. United Nations, New York and Geneva, 2013.
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- OSHA Law and Regulations. Occupational Safety and Health Standards 29 CFR: 1910. <a href="https://www.osha.gov/law-regs.html">https://www.osha.gov/law-regs.html</a> Accessed on April 15, 2015.
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- Recommendations on the Transport of Dangerous Goods Model Regulations. 18<sup>th</sup> Edition. Volume I and II. ST/SG/AC. 10/1/Rev. 18. UN, New York and Geneva, 2013.
- Regulation (EC) No. 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. Official Journal of the European Union L 353/1. 2008.
- Others
- : The data here is for hazard communication to our employees, our customers and their employees and authorized regulatory agencies. For the intended purpose, this SDS may be duplicated or the data transcribed to an alternative form.
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