# **Safety Data Sheet**



#### **Advanced Nutrients Overdrive**

## Section 1. Identification

GHS product identifier : Advanced Nutrients Overdrive

Other means of : Product Code: 3750 identification Formula Code: 001E

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

Supplier/Manufacturer's : Advanced Nutrients

**details** 8687 Melrose Ave, Suite G320 West Hollywood, CA 90069

Tel: (877) 604-8637 Email: info@advancednutrients.com

www.advancednutrients.com

**Emergency Phone number**: CHEMTREC Emergency Phone Numbers:

1-800-424-9300 (North America, including Canada and

Mexico) CCN 613830

1+703-527-3887 (International) CCN 613830

#### Section 2. Hazard Identification

CHS 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) or Regulation (EC) No 1272/2008 of the European Parliament & of the Council, and (b) OSHA Laws &

hazardous materials.

**GHS label elements** 

Pictogram symbol : Not applicable.

Signal word : Not applicable.

Hazard statement : Not hazardous.

**Precautionary statement** 

**General**: Read label before use. Keep out of reach of children. If

medical advice is needed, have product container or label at

Regulations (29 CFR - 1910 Subpart Z: Table Z-1 to Z-3) as

hand.

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

**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 all



local, regional, national and international regulations.

## Other hazards (not covered the GHS

Magnesium nitrate and Potassium nitrate are used in the manufacture of this product. The US National Fire Protection Association (NFPA) Code 430 (1995) has classified magnesium nitrate and potassium nitrate as oxidizing materials 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 number	% (w/w)	Classification according to OSHA Laws &	
			EU Regulations	
Potassium nitrate	7757-79-1	3-8	Not classified as hazardous	
Magnesium nitrate	10377-60-3	2-7	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

#### **Description of necessary measures**

Self-protection of first-

aiders

: No special protection is required.

**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. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for

48 hours.

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

attention if symptoms occur.



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

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

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

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** : No known significant effects or critical hazards. **Skin contact** No known significant effects or critical hazards. **Eye contact** : No known significant effects or critical hazards. Ingestion No known significant effects or critical hazards.

Indication of immediate medical attention and special treatment needed:

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

See also toxicological information (Section 11).

## **Section 5. Fire-fighting Methods**

**Suitable extinguishing** : Use an extinguishing agent suitable for the surrounding fire.

media **Unsuitable extinguishing** 

the chemical

Special protective

equipment for fire-fighters

**Special protective** 

precautions for fire-fighters

: None known.

**Specific hazards arising from**: No specific fire or explosion hazard.

: 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

For emergency

personnel

: Put on appropriate personal protective equipment.

: 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

Prevent entry into sewers, water courses, basements or confined areas. 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 (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

### Large spill

: Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. 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 (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## **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. 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

**Biological limit values** 

controls

**Appropriate engineering** controls

**Environmental exposure** 

**Hygiene measures** 

**Personal Protective Equipment (PPE)** 

> Eye/face protection

Skin protection

Respiratory protection

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

: None.

: No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

: 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.

: 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.

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.

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.

: Not required under normal conditions of use.

Thermal hazards : None.

## Section 9. Physical and Chemical Properties

#### 8687 Melrose Ave, Suite G320, West Hollywood, CA 90069 Toll Free: 1.877.604.8637



**Appearance (physical state)** : Yellow/Bronze, clear/opaque, liquid.

Odor : Odorless

Odor threshold : Not available

**pH** : 3.3

Melting point/Freezing : -9°C (15.8°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 : 1.12 g/mL

Solubility (ies) : Miscible in water

Partition coefficient: n-

octanol/water

: Not available

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 nor

reactions

reactions

: 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:

reducing materials, organic materials, metals and acids.

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

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



## **Section 11. Toxicological Information**

Toxicity	Species	Dose*	Remark
Oral LD50	Rat	>2000 mg/kg bw	
Inhalation LC50	No data available	No data available	
Dermal LD50	No data available	No data available	
	Oral LD50 Inhalation LC50	Oral LD50 Rat Inhalation LC50 No data available	Oral LD50 Rat >2000 mg/kg bw Inhalation LC50 No data available No data available

<sup>\*-</sup> Obtained from ECHA (Updated Feb. 25, 2015)

Skin corrosion/irritationSerious eye damage/There is no data available.

irritation

**Respiratory or skin** : There is no data available.

sensitization

Germ cell mutagenicity : There is no data available.
Carcinogenicity : There is no data available.
Reproductive toxicity : There is no data available.
STOT-single exposure : There is no data available.
STOT-repeated exposure : There is no data available.
Aspiration hazard : 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.
 Ingestion
 No known significant effects or critical hazards.

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
Potassium nitrate	Acute LC50 490 mg/L	Daphnia - Daphnia	48hours	
	Fresh water	magna		
	Acute LC50 22500	Fish - Gambusia affinis	96 hours	
	μg/l Fresh water	– Adult		

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**

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. 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
Magnesium nitrate	No	No	No	No	No
Potassium nitrate	No	No	No	No	No

## **Section 15. Regulatory Information**

Safety, health and environmental regulations	:	No known specific national and/or
specific for the product in question		regional regulations applicable to this
		product (including its ingredients).

## 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.
- European Agreement concerning the International Transport of Dangerous Goods by Inland Waterways (ADN), including the Annexed Regulations, applicable as from 1 January 2013. Volume I and Volume II. ECE/TRANS/231 (Vol. I & II). UN Economic Commission for Europe-Committee on Inland Transport. New York and Geneva, 2012.
- European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), applicable as from 1 January 2013. Volume I and Volume II. ECE/TRANS/225 (Vol. I & II). United Nations Economic Commission for Europe-Committee on Inland Transport, New York and Geneva, 2012.
- **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.
- Guidance on Labelling and Packaging Regulation in Accordance with EU Regulation 1272/2008 on the classification, labelling and packaging of substances and mixtures (CLP Regulation). European Chemical Agency, Finland, 2011.
- International Maritime Dangerous Goods (IMDG) Code Volume 1 and 2. Incorporating Amendment 33-06, 2006 Edition. International Maritime Organization. London, 2006.
- OSH Answers Fact Sheets. Canadian Centre for Occupational Health and Safety. <a href="http://www.ccohs.ca/oshanswers/chemicals/oxidizing/oxiziding hazards.html">http://www.ccohs.ca/oshanswers/chemicals/oxidizing/oxiziding hazards.html</a> Accessed on April 08, 2015.
- 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.
- Recommendations on the Transport of Dangerous Goods Manual of Test and Criteria. 5<sup>th</sup> Edition. ST/SG/AC. 10/11/Rev. 5. United Nations, New York and Geneva, 2009.
- 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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contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment.