Safety Data Sheet



Advanced Nutrients Connoisseur Grow Part "A" pH-Perfect Base Nutrient

Section 1. Identification

GHS product identifier	:	Advanced Nutrients Connoisseur Grow Part "A" pH-Perfect Base Nutrient
Other means of	:	Product Code: 1680
identification		Formula Code: 004A
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: (877) 604-8637
		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	:	Not hazardous.
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,



		regional, national and international regulations.
Other hazards (not covered	:	Calcium nitrate and Magnesium nitrate are used in the
the GHS		manufacture of this product. The US National Fire Protection
		Association (NFPA) Code 430 (1995) has classified
		Magnesium nitrate as oxidizing material in Class 1, which do
		not cause spontaneous ignition when it comes in contact
		with combustible materials.

Section 3. Composition/Information on Ingredients

Substance/Mixture	:	Mixture
Chemical identity	:	Not applicable
Common name/synonym	:	Not available
CAS number and other	:	Not applicable
unique identifiers		
Impurities and stabilizing	:	Not applicable
additives		

Ingredient name	CAS number	% (w/w)	Classification according to OSHA Law and Regulations
Calcium Nitrate	10124-37-5	10-20	Not classified as hazardous
Magnesium Nitrate	10377-60-3	5-15	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	:	Pay attention to self-protection. No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth- to-mouth resuscitation.	
General information	:	Remove contaminated clothing immediately. In case of accident or unwellness, seek medical attention immediately.	
Inhalation	:	Move victim to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if adverse health effects persist or are severe.	
Skin contact	:	Wash contaminated skin with plenty of water and soap. Wash contaminated clothing and clean shoes before reuse. Get medical attention if adverse health effects persist or are sever.	



Eye contact	:	Immediately flush eyes with plenty of water with the eyelids
		open. Check for and remove any contact lenses. Continue to
		rinse for at least 15 minutes. Get medical attention if adverse
		health effects persist or are severe.
Ingestion	:	If material has been swallowed and the exposed person is
		conscious, give small quantities of water to drink. Stop if the
		exposed person feels sick as vomiting may be dangerous. Do
		not induce vomiting unless directed to do so by medical
		personnel. If vomiting occurs, the head should be kept low so
		that vomit does not enter the lungs. Get medical attention. If
		necessary, call a poison center or physician. Never give
		anything by mouth to an unconscious person. If unconscious,
		place in recovery position and get medical attention
		immediately. Maintain an open airway. Loosen tight clothing
		such as a collar, tie, belt or waistband.
Most important symptoms (of	.	
Most important symptoms/ef		
Inhalation	:	Exposure to decomposition products may cause a health
		hazard. Serious effects may be delayed following exposure.
Skin contact	:	Not known health effect due to skin contact.
Eye contact	:	If in eyes, it causes eye irritation.
Ingestion	:	If swallowed, it irritating to mouth, throat and stomach.
Indication of immediate medi	cal	attention and special treatment needed:
Notes to physician	:	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.
Specific treatments	:	No specific treatment.
See also toxicological informatior	n (Se	ection 11).

Section 5. Fire-fighting Methods

Suitable extinguishing media	:	Any media suitable for extinguishing a surrounding fire.
Unsuitable extinguishing media	:	Not known.
Specific hazards arising from the chemical	:	In a fire, hazardous thermal decomposition products may be produced including nitrogen oxides and metal oxide/oxides.
Special protective equipment for fire-fighters	:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus with a full face-piece operated in positive pressure mode.
Special protective precautions for fire-fighters	:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. Risk of explosion. If large quantities are involved in a major fire, evacuate the area. No action shall be taken involving any personal risk or



without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fireexposed containers cool. Fight fire from protected location or maximum possible distance.

Section 6. Accidental Release Measures

Personal precautions, protect	e equipment and emergency procedures	
For non-emergency personnel	No action shall be taken involving any personal risk without suitable training. Evacuate surrounding areas. Ke unnecessary and unprotected personnel from entering. not touch or walk through spilled material. Shut off ignition sources. No flares, smoking or flames in hazard ar Avoid breathing vapor or mist. Provide adequate ventilati Wear appropriate respirator when ventilation is inadequa Put on appropriate personal protective equipment.	eep Do all rea. on. ate.
For emergency personnel	If specialised clothing is required to deal with the spilla take note of any information in Section 8 on suitable a unsuitable materials. See also the information in "For ne emergency personnel".	and
Environmental precautions	Avoid dispersal of spilled material and runoff and cont with soil, waterways, drains and sewers. Inform the relev- authorities if the product has caused environmer pollution (sewers, waterways, soil or air).	ant
Methods and materials for co	ainment and clean up	
Small spill	Stop leak if without risk. Move containers from spill area. Us spark-proof tools and explosion-proof equipment. Dile with water and mop up if water-soluble. Do not absorb sawdust or other combustible material. It may lead to a risk when it dries out. Alternatively, or if water-insolube absorb with an inert dry material and place in an appropri waste disposal contractor.	ute in fire ole, ate ste
Large spill	Stop leak if without risk. Move containers from spill area. If spark-proof tools and explosion-proof equipment. Approximate release from upwind. Prevent entry into sewers, wa courses, basements or confined areas. Do not absorb sawdust or other combustible material. It may lead to a firsk when it dries out. Wash spillages into an effluent reatment plant or proceed as follows. Contain and coll spillage with non-combustible, absorbent material e.g. sa earth, vermiculite or diatomaceous earth and place container for disposal according to local regulations. Dispovia a licensed waste disposal contractor. Contaminational contractor.	ach ter in fire ent ect nd, in ose



absorbent material may pose the same hazard as the spilled product.

Section 7. Handling and Storage

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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.
Protective measures	:	Put on appropriate personal protective equipment. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from clothing, incompatible materials and combustible materials. Keep away from heat. Empty containers retain product residue and can be hazardous. Do not reuse container.
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. Separate from reducing agents and combustible materials. 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.
Biological limit values	:	None.
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. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to



		reduce emissions to acceptable levels.
Individual protection measur	res	•
Hygiene measures		Wash hands, forearms and face thoroughly after handling chemical products, before breaks and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.
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	:	Do not get in eyes. Wear chemical safety goggles and a face shield if splashing hazard exists.
Skin protection	:	Avoid skin contact. Wear gloves when handling the product directly.
Respiratory protection	:	Not normally required if the product is used as directed. Use a properly fitted, air-purifying or supplied air respirator complying with an approved standard if a risk assessment indicates this is necessary.
Thermal hazards	:	None.

Section 9. Physical and Chemical Properties

Appearance (physical state)	:	Liquid, Deep burgundy, opaque
Odor	:	Mineral
Odor threshold	:	Not available
рН	:	5.21 – 5.69
Melting point/Freezing	:	Not available
point		
Initial boiling point and	:	100°C (212°F)
boiling range		
Flash point	:	Not available
Evaporation rate	:	Not available
Flammability (solid, gas)	:	Not available
Upper/lower flammability	:	Not available
or explosive limits		
Vapor pressure	:	Not available
Vapor density	:	Not available
Relative density	:	1.186 – 1.194 g/ml
Solubility (ies)	:	Complete in water
Partition coefficient: n-	:	Not available
octanol/water		



Auto-ignition temperature	:	Not available
Decomposition temperature	:	Not available
Viscosity	:	Not available

Section 10. Stability and Reactivity

Reactivity	:	Not available.
Chemical stability	:	Normally stable.
Possibility of hazardous reactions	:	No hazardous reactions or instability may occur when it contact with combustible materials.
Conditions to avoid	:	Freezing temperatures.
Incompatible materials	:	Reducing materials, organic materials, metals and acids.
Hazardous decomposition products	:	None under normal conditions of storage and use.

Section 11. Toxicological Information

Acute toxicity					
Ingredient	Toxicity		Species	Dose*	Remark
Calcium nitrate	Oral LD50		Rat	300 - 2000 mg/kg	Harmful if
				bw	swallowed
	Inhalation LC	50	No data available	No data available	No data available
	Dermal LD50		No data available	No data available	No data available
*- Obtained from EC	HA (Updated F	eb. 2	25, 2015)		
Skin corrosion/irrit	tation	: N	o data available.		
Serious eye damag	se/ :	: N	o data available.		
irritation					
Respiratory or skin	i :	: N	o data available.		
sensitization					
Germ cell mutager	nicity	: N	o data available.		
Carcinogenicity	:	: N	o data available.		
Reproductive toxic	ity :	: N	o data available.		
STOT-single exposit	osure : No		o data available.		
STOT-repeated exp	STOT-repeated exposure : No		o data available.		
Aspiration hazard	:	N	o data available.		
The Likely routes o	of exposure, h	neal	th effects and Symp	otoms related to th	e physical, chemica
and toxicological c	haracteristics	S			
Eye contact	:	: It	causes serious eye	irritation. The sym	ptoms may include
		ir	ritation, watering a	nd redness.	
Inhalation	:		o known significant		
Skin contact	:		causes mild skin ir		oms may include
			ritation and rednes		,
Ingestion	:	: It	is harmful if ingest	ed. Irritating to mo	uth, throat and

		stomach. There is no known health effect.		
Delayed and immediate effects and also chronic effects from short or long term exposure				
Short-term exposure				
Potential immediate	:	Not known.		
effects				
Potential delayed	:	Not known.		
effects				
Long-term exposure				
Potential immediate	:	Not known.		
effects				
Potential delayed	:	Not known.		
effects				
Potential Chronic health	1	Not known.		
effect				
Numerical measures of				
toxicity				
Acute toxicity estimate				
Oral		No data available.		
Inhalation of vapors	:	No data available.		

Section 12. Ecological Information

Toxicity						
Ingredient name	Result*			Species	Exposure	Reference
Calcium nitrate	Acute LC50 Fresh water		78 mg/l	Fish - Labeo boga	96 hours	IUCLID 5
	Acute LC50 Fresh water) mg/l	Aquatic invertebrate - Daphnia	48 hours	IUCLID 5
	Acute EC50 mg/l Salt wa			Aquatic plants - Heterosigma akashiwo	10 days	IUCLID 5
*- Practically non-t	oxic to aquatic	or	ganisms	-		
Persistence and degradability		:	No data	a available.		
Bioaccumulative Mobility in soil Other adverse ef		::	No data	a available. a available. wn significant effect.		
Section 13. D	Disposal C	on	sidera	tions		
Disposal of waste		:	municip surplus disposa	al of all waste must be bal, provincial and feder and non-recyclable proc l contractor. No sewage di	al regulations lucts via a lic sposal!!	. Dispose of ensed waste
Contaminated pa	аскадіпд	:	Empty (containers should be recy	cled or dispose	ed 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 a	ccording 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
Calcium nitrate	No	No	No	No	No
Magnesium 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
Date of preparation (d/m/y)	:	14/03/2016
Version	:	3
Date of Revision	:	15/04/2020
Revised Sections	:	Section 1
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
ΙΑΤΑ	:	International Air Transport Association shipment of



NUTRIE	
	Dangerous Goods Regulation
IMD	
RID	: The Regulation concerning the International Carriage of
	Dangerous Goods by Rail
SDS	: Safety Data Sheet
Key Liter	ature References:
Conv	vention 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 Organisation for International Carriage by
	Rail (OTIF). Berne, Switzerland, 2012.
Euro	pean Chemical Agency (ECHA) 2015. Information on Chemicals: Registered
	substances http://echa.europa.eu/information-on-chemicals/registered-substances .
	Online Database. Accessed on March 16, 2015.
Euro	pean 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.
Euro	pean 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.
Glob	ally Harmonized System of Classification and Labelling of Chemicals. 5 th Edition.
Cuid	ST/SG/AC. 10.30/Rev. 5. United Nations, New York and Geneva, 2013.
Guid	ance 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.
Into	national Maritime Dangerous Goods (IMDG) Code Volume 1 and 2. Incorporating
inter	Amendment 33-06, 2006 Edition. International Maritime Organization. London, 2006.
ОСН	Answers Fact Sheets. Canadian Centre for Occupational Health and Safety.
0511	http://www.ccohs.ca/oshanswers/chemicals/oxidizing/oxiziding hazards.html
	Accessed on April 08, 2015
OSH	A Law and Regulations. Occupational Safety and Health Standards 29 CFR: 1910.
	https://www.osha.gov/law-regs.html Accessed on April 15, 2015
Reco	mmendations on the Transport of Dangerous Goods – Manual of Test and Criteria.
	5 th Edition. ST/SG/AC. 10/11/Rev. 5. United Nations, New York and Geneva, 2009.
Reco	mmendations on the Transport of Dangerous Goods – Model Regulations. 18 th
	Edition. Volume I and II. ST/SG/AC. 10/1/Rev. 18. UN, New York and Geneva, 2013.
Regu	Ilation (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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