Safety Data Sheet



Advanced Nutrients Sensi Bloom Part "B" pH-Perfect Base Nutrient

Section 1. Identification

GHS product identifier	:	Advanced Nutrients Sensi Bloom Part "B" pH-Perfect Base Nutrient	
Other means of	:	Product Code: 6151	
identification		Formula Code: 001C	
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	:	Neither the mixture nor its major constituents are listed in
substance/mixture		(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 or 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.
<u>Storage</u>	:	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 the GHS	:	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 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 &
			Regulations
Potassium Nitrate	7757-79-1	10-30	Not classified as hazardous
Potassium Sulfate	7778-80-5	1-5	Not classified as hazardous
Urea	57-13-6	5-10	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

Eye contact	:	severe. 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/effects, ac		
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 irritates mouth, throat and stomach.
Indication of immediate me	dical	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 informati	on (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	:	Promptly isolate the scene by removing all persons from the
precautions for fire-fighters		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, protec	tive	equipment and emergency procedures
For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency personnel	:	If specialised 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 co	onta	inment 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.
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.
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	:	None.
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 measure	es	
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, Clear, lightly yellow
Odor	:	Mineral
Odor threshold	:	Not available
рН	:	5.10 - 5.69
Melting point/Freezing	:	Not available/-4.0°C
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	:	1.120 – 1.202g/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	:	Hazardous reactions or instability may occur under certain conditions of storage or use, such as contact with combustible materials which may result risk of causing or intensifying fire.
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

Ingredient	Toxicity	Species	Dose*	Remark	
Potassium nitrate	Oral LD50	Rat	>2000 mg/kg bw	At 60% concentration	
	Inhalation LC50	Rat	>0.527 mg/L air		
	Dermal LD50	Rat	>5000 mg/kg bw		
Potassium Sulfate	Oral LD50	Rat	No toxicity	For analog substance (KCl)- 6600 mg/kg bw	
	Inhalation LC50	Rat	No toxicity	Not significant fo analog substance	
	Dermal LD50	Rat	>2000 mg/kg bw	Not toxic	
Urea	Oral LD50	Cow	600-1080 mg/kg bw	Lower toxicity	
	Inhalation LC50	-	No toxicity		
	Dermal LD50	-	No toxicity		
btained from ECHA (Updated Feb. 25, 202	15)			



Serious eye	:	Non-irritant (Potassium nitrate and Potassium sulfate) Mildly			
damage/irritation		irritating to eyes (Urea).			
Respiratory or skin sensitization	:	Non skin sanitizer (Potassium nitrate, Urea).			
Germ cell mutagenicity	:	No data available.			
Carcinogenicity	:	No data available.			
Reproductive toxicity	:	No adverse effect (Potassium nitrate and Potassium sulfate).			
		No data available (Urea).			
STOT-single exposure	:	No data available.			
STOT-repeated exposure	:	No data available.			
Aspiration hazard:	:	No data available.			
		alth effects and Symptoms related to the physical, chemical			
and toxicological characterist					
Eye contact	:	If in eyes, it causes eye irritation. The symptoms may include			
		irritation, watering and redness.			
Inhalation		There is no known health effect.			
Skin contact		There is no known health effect.			
Ingestion	:	It is harmful if ingested. Irritating to mouth, throat and stomach. There is no known health effect.			
		stomach. There is no known health effect.			
	ts a	nd also chronic effects from short or long term exposure			
Short-term exposure					
Potential immediate		: Not known.			
effects		Net la sua			
Potential delayed effe	ects	: Not known.			
Long-term exposure Potential immediate		: Not known.			
effects		: Not known.			
Potential delayed effo	octo	h Not known			
-					
Potential Chronic health e					
Numerical measures of toxicit	ty				
Acute toxicity estimate					
Oral		: No data available.			
Inhalation of vapors		: No data available.			

Section 12. Ecological Information

Toxicity				
Ingredient	Result	Species	Exposure	Reference
name				
Potassium	Acute LC50 490 mg/l	Aquatic invertebrate	- 48 hours	IUCLID 5
nitrate	Fresh water	Daphnia		
	Acute LC50 1378 mg/L Fresh water	Fish – Poecilia reticulata	96 hours	ECHA

Potassium Sulfate	Acute LC50 72 Fresh water	20 mg/l	Aquatic Daphnia	invertebrate	- 48 hours	ECHA
	Acute LC50 68 Fresh water	80 mg/l	Fish- Fath	nead minnows	96 hours	ECHA
Urea	Acute LC50 > 6 mg/l Fresh wa		Fish – Go	lden orfe fish	96 hours	ECHA
Persistence and degradability	:	No data	a available.			
Bioaccumulative	potential :	No data	a available.			
Mobility in soil : No data available.						
Other adverse et	ffects :	: No known significant effect.				

Section 13. Disposal Considerations

Disposal of waste methods	:	Disposal of all waste must be done in accordance with municipal, provincial and federal regulations. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. No sewage disposal!!
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	:	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
Date of preparation (d/m/y)	:	24/04/2015
Version	:	4
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 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 Organisation for International Carriage by Rail (OTIF). Berne, Switzerland, 2012.

European Chemical Agency (ECHA) 2015. Information on Chemicals: Registered substances <u>http://echa.europa.eu/information-on-chemicals/registered-substances</u>. 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**. 5th 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. http://www.ccohs.ca/oshanswers/chemicals/oxidizing/oxiziding hazards.html Accessed on Aril 08, 2015.
- OSHA Law and Regulations. Occupational Safety and Health Standards 29 CFR: 1910. https://www.osha.gov/law-regs.html Accessed on April 15, 2015.
- **Recommendations on the Transport of Dangerous Goods Manual of Test and Criteria.** 5th Edition. ST/SG/AC. 10/11/Rev. 5. United Nations, New York and Geneva, 2009.
- **Recommendations on the Transport of Dangerous Goods Model Regulations.** 18th 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.
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