SAFETY DATA SHEET

(in accordance with The Hazard Communication Standard (HCS) (29 CFR 1910.1200))

6151-001C-Advanced Nutrients Sensi Bloom Part B pH-Perfect Base Nutrient

Section 1: Identification.

Product identifier used on the label and Other means of identification.

Product Name: Advanced Nutrients Sensi Bloom Part B pH-Perfect Base Nutrient
Product Code: 6151-001C

Recommended use of the chemical and restrictions on use.
Fertilising Product
Specific end use(s).
Fertiliser [REACH Product Category (PC) 12].
Uses advised against:
Not to be used as food or feed in any forms.

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party.

Company: **Advanced Nutrients U.S. LLC**
Address: 8687 Melrose Ave, Suite G320
City: 90069 - West Hollywood
Province: CA
Telephone: +1-833-420-2902
E-mail: info@advancednutrients.com
Web: 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(s) Identification.

Classification of the chemical in accordance with paragraph (d) of §1910.1200
The product is not classified as hazardous in accordance with The Hazard Communication Standard (HCS) (29 CFR 1910.1200).

Signal word, hazard statement(s), symbol(s) and precautionary statement(s) in accordance with paragraph (f) of §1910.1200.

Other hazards.
In normal use conditions and in its original form, the product itself does not involve any other risk for health and the environment.

Section 3: Composition/Information on Ingredients.

Substances.
Not applicable.

Mixtures.
Chemical name and concentration ranges of all ingredients that are classified as health hazards in accordance with paragraph (d) of §1910.1200 and that are present above their cut-off/concentration limits or ingredients that are below their cut-off/concentration limits and present a health risk:

Identifiers	Name	Concentration	(*)Classification	
			Classification	specific concentration limit
CAS No: 7778-80-5 EC No: 231-915-5	potassium sulfate	2.5 - 10 %	-	-

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Index No: 603-117-00-0 CAS No: 67-63-0 EC No: 200-661-7	[1] isopropanol,isopropyl alcohol,propan-2-ol	0 - 10 %	Eye Irrit. 2A, H319 - Flam. Liq. 2, H225 - STOT SE 3, H336	-
Index No: 005-007-00-2 CAS No: 10043-35-3 EC No: 233-139-2	[1] boric acid	0 - 0.1 %	Repr. 1B, H360	-

[1] Substance with a national workplace exposure limit (see section 8.1).
(*)The complete text of the Hazard statement(s) is given in section 16 of this Safety Data Sheet.

Section 4: First-Aid Measures.

Description of first aid measures.
Due to the composition and type of the substances present in the product, no particular warnings are necessary.

Inhalation.
If breathing stops, give artificial respiration and seek immediate medical attention. Take the victim into open air; keep them warm and calm. If breathing is irregular or stops, perform artificial respiration.

Eye contact.
Remove contact lenses, if present and if it is easy to do. Wash eyes with plenty of clean and cool water for at least 10 minutes while pulling eyelids up, and seek medical assistance.

Skin contact.
Remove contaminated clothing.

Ingestion.
Keep calm. NEVER induce vomiting.

Most important symptoms and effects, both acute and delayed.
No known acute or delayed effects from exposure to the product.

Indication of any immediate medical attention and special treatment needed.
In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious.

Section 5: Fire-Fighting Measures.

Extinguishing media.
Suitable extinguishing media:
Extinguisher powder or CO2. In case of more serious fires, also alcohol-resistant foam and water spray.

Unsuitable extinguishing media:
Do not use a direct stream of water to extinguish. In the presence of electrical voltage, you cannot use water or foam as extinguishing media.

Special hazards arising from the mixture.
Special risks.
Fire can cause thick, black smoke. As a result of thermal decomposition, dangerous products can form: carbon monoxide, carbon dioxide. Exposure to combustion or decomposition products can be harmful to your health. The product may cause or facilitate the combustion of other materials.

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Advice for firefighters.
Use water to cool tanks, cisterns, or containers close to the heat source or fire. Take wind direction into account.

Fire protection equipment.
According to the size of the fire, it may be necessary to use protective suits against the heat, individual breathing equipment, gloves, protective goggles or facemasks, and boots.

Section 6: Accidental Release Measures.

Personal precautions, protective equipment, and emergency procedures.
For exposure control and individual protection measures, see section 8.

Environmental precautions: Product not classified as hazardous for the environment, avoid spillage as much as possible.

Methods and materials for containment and cleaning up.
Contain and collect spillage with inert absorbent material (earth, sand, vermiculite, Kieselguhr...) and clean the area immediately with a suitable decontaminant.
Deposit waste in closed and suitable containers for disposal, in compliance with local and national regulations (see section 13).

Reference to other sections: for exposure control and individual protection measures, see section 8, for later elimination of waste, follow the recommendations under section 13.

Section 7: Handling and Storage.

Precautions for safe handling.
The product does not require special handling measures, the following general measures are recommended:
For personal protection, see section 8.
In the application area, smoking, eating, and drinking must be prohibited.
Follow legislation on occupational health and safety.
Never use pressure to empty the containers. They are not pressure-resistant containers. Keep the product in containers made of a material identical to the original.

Conditions for safe storage, including any incompatibilities.
The product does not require special storage measures.As general storage measures, sources of heat, radiation, electricity and contact with food should be avoided.
Keep away from oxidising agents and from highly acidic or alkaline materials.
Store the containers between 5 and 35 º C, in a dry and well-ventilated place.
Store according to local legislation. Observe indications on the label. Once the containers are open, they must be carefully closed and placed vertically to prevent spills.

Section 8: Exposure Controls/Personal Protection.

8.1 Control parameters.

Work exposure limit for:

Name	CAS No.	Country	Limit value	ppm	mg/m³
phosphoric acid, orthophosphoric acid	7664-38-2	United States	**Eight hours**		1
			Short term		3
		United States [1] (Cal/OSHA)	**Eight hours**		1
			Short term		3
		United States [2] (NIOSH)	**Eight hours**		1
			Short term		3

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		United States [3] (OSHA)	**Eight hours**		1
			Short term		3
isopropanol,isopropyl alcohol,propan-2-ol	67-63-0	United States	**Eight hours**	200	
			Short term	400	
		United States [1] (Cal/OSHA)	**Eight hours**	400	
			Short term	500	
		United States [2] (NIOSH)	**Eight hours**	400	980
			Short term	500	1225
		United States [3] (OSHA)	**Eight hours**	400	980
			Short term	500	1225
boric acid	10043-35-3	United States	**Eight hours**		2 (Inhalable particulate matter)
			Short term		6 (Inhalable particulate matter)

[1] California Division of Occupational Safety and Health (Cal/OSHA) Permissible Exposure Limits (PELs).
[2] National Institute for Occupational Safety and Health. NIOSH Recommendations for occupational safety and health, Compendium of Policy Documents and Statements, January, 1992, DHHS (NIOSH) Publication No. 92-100.
[3] Occupational Safety and Health Administration, United States Department of Labor. Permissible Exposure limits (PELs), California Division of Occupational Safety and Health (Cal/OSHA) Permissible Exposure Limits (PELs).
The product does NOT contain substances with Biological Limit Values.
Concentration levels DNEL/DMEL:

Name	DNEL/DMEL	Type	Value
potassium sulfate CAS No: 7778-80-5 EC No: 231-915-5	DNEL (Workers)	Inhalation, Chronic, Systemic effects	37,6 (mg/m³)
isopropanol,isopropyl alcohol,propan-2-ol CAS No: 67-63-0 EC No: 200-661-7	DNEL (Workers)	Inhalation, Chronic, Systemic effects	500 (mg/m³)
	DNEL (Consumers)	Inhalation, Chronic, Systemic effects	89 (mg/m³)
	DNEL (Workers)	Dermal, Chronic, Systemic effects	888 (mg/kg bw/day)
	DNEL (Consumers)	Dermal, Chronic, Systemic effects	319 (mg/kg bw/day)
	DNEL (Consumers)	Oral, Chronic, Systemic effects	26 (mg/kg bw/day)
boric acid CAS No: 10043-35-3 EC No: 233-139-2	DNEL (Workers)	Inhalation, Chronic, Systemic effects	8,3 (mg/m³)

DNEL: Derived No Effect Level, level of exposure to the substance below which adverse effects are not anticipated.
DMEL: Derived Minimal Effect Level, exposure level corresponding to a low risk, that risk should be considered a tolerable minimum.
Concentration levels PNEC:

Name	Details	Value
isopropanol,isopropyl alcohol,propan-2-ol CAS No: 67-63-0 EC No: 200-661-7	aqua (freshwater)	140,9 (mg/L)
	aqua (marine water)	140,9 (mg/L)
	aqua (intermittent releases)	140,9 (mg/L)
	sediment (freshwater)	552 (mg/kg sediment dw)
	sediment (marine water)	552 (mg/kg sediment dw)
	Soil	28 (mg/kg soil dw)

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	STP	2251 (mg/L)
	oral (Hazard for predators)	160 (mg/kg food)

PNEC: Predicted No Effect Concentration, concentration of the substance below which adverse effects are not expected in the environmental compartment.

Exposure controls.
Measures of a technical nature:

Concentration:	**100 %**
Uses:	**Fertilising Product**
Breathing protection:	
If the recommended technical measures are observed, no individual protection equipment is necessary.	
Hand protection:	
If the product is handled correctly, no individual protection equipment is necessary.	
Eye protection:	
If the product is handled correctly, no individual protection equipment is necessary.	
Skin protection:	
PPE:	Work footwear.
Characteristics:	«CE» marking, category II.
Maintenance:	This product adapts to the first user's foot shape. That is why, as well as for hygienic reasons, it should not be used by other people.
Observations:	Work footwear for professional use includes protection elements aimed at protecting users against any injury resulting from an accident

Section 9: Physical and Chemical Properties.

Information on basic physical and chemical properties.
Physical state: Liquid
Colour: Clear lightly yellow transparent
Odour: Mineral
Odour threshold: Not available
Melting point/freezing point: Not available
Initial boiling point or boiling range: >=100 ºC
Flammability (solid, gas): Not available
Lower Explosive Limit: Not available
Upper Explosive Limit: Not available
Flash point: Not available
Auto-ignition temperature: Not available
Decomposition temperature: Not available
pH: 5.1 - 5.69 (100%) (pH Meter/potentiometric/electrometric method)
Kinematic viscosity: Not available
Solubility: Not available
Liposolubility: Not available
Hydrosolubility: Miscible in water
Partition coefficient (n-octanol/water): Not available
Vapour pressure: Not available
Relative density: 1.120 - 1.202 (Hydrometer (ISO 387))
Vapour density: Not available
Particle characteristics: Not available

Other information.
Explosive properties: Not applicable/Not available due to the nature/properties of the product
Oxidizing properties: Not applicable/Not available due to the nature/properties of the product
Pour point: Not applicable/Not available due to the nature/properties of the product
Blink: Not applicable/Not available due to the nature/properties of the product
Evaporation rate: Not applicable/Not available due to the nature/properties of the product

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Viscosity: Not applicable/Not available due to the nature/properties of the product

Section 10: Stability and Reactivity.

Reactivity.
The product does not present hazards by their reactivity.

Chemical stability.
Stable under the recommended handling and storage conditions (see section 7).

Possibility of hazardous reactions, including those associated with foreseeable emergencies.
The product does not present possibility of hazardous reactions.

Conditions to avoid.
Avoid any improper handling.

Incompatible materials.
Keep away from oxidising agents and from highly alkaline or acidic materials in order to prevent exothermic reactions.

Hazardous decomposition products.
No decomposition if used for the intended uses.

Section 11: Toxicological Information.

Information on toxicological effects.

Toxicological information about the substances present in the composition.

Name	Acute toxicity			
	Type	Test	Kind	Value
isopropanol,isopropyl alcohol,propan-2-ol CAS No: 67-63-0 EC No: 200-661-7	Oral	LD50	Rat	5050 mg/kg bw [1] [1] Gigiena i Sanitariya. For English translation, see HYSAAV. Vol. 43(1), Pg. 8, 1978
	Dermal	LD50	Rabbit	12800 mg/kg bw [1] [1] Raw Material Data Handbook, Vol.1: Organic Solvents, 1974. Vol. 1, Pg. 100, 1974
	Inhalation	LC50	Rat	>10000 ppm (6 h) [1] [1] OECD Guideline 403 (Acute Inhalation Toxicity), study report, 1991

a) acute toxicity;
Not conclusive data for classification.

b) skin corrosion/irritation;
Not conclusive data for classification.

c) serious eye damage/irritation;
Not conclusive data for classification.

d) respiratory or skin sensitisation;
Not conclusive data for classification.

e) germ cell mutagenicity;
Not conclusive data for classification.

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f) carcinogenicity;
Not conclusive data for classification.

g) reproductive toxicity;
Based on available data, the classification criteria are not met.

h) STOT-single exposure;
Based on available data, the classification criteria are not met.

i) STOT-repeated exposure;
Not conclusive data for classification.

j) aspiration hazard;
Not conclusive data for classification.

Substances present in the composition listed in the National Toxicology Program (NTP) Report on Carcinogens (RoC):
This product does not contain substances listed in the National Toxicology Program (NTP) Report on Carcinogens (RoC).
Substances present in the composition listed in the International Agency for Research on Cancer (IARC) Monographs:

CAS No.	Agent	*Group	Volume	Year	Additional information
67-63-0	isopropanol,isopropyl alcohol,propan-2-ol	3	15, Sup 7, 71	1999	

* GROUP
Group 3 Not classifiable as to its carcinogenicity to humans

Section 12: Ecological Information.

Ecotoxicity.

Name	Ecotoxicity			
	Type	Test	Kind	Value
isopropanol,isopropyl alcohol,propan-2-ol	Fish	LC50	Fish	9640 mg/l (96 h) [1]
		[1] Brooke, L.T., D.J. Call, D.L. Geiger, and C.E. Northcott 1984. Acute Toxicities of Organic Chemicals to Fathead Minnows (Pimephales promelas), Vol. 1. Center for Lake Superior Environmental Stud., Univ.of Wisconsin-Superior, Superior, WI :414		
	Aquatic invertebrates	LC50	Crustacean	1400 mg/l (48 h) [1]
		[1] Blackman, R.A.A. 1974. Toxicity of Oil-Sinking Agents. Mar.Pollut.Bull. 5:116-118		
CAS No: 67-63-0 EC No: 200-661-7	Aquatic plants	Toxicity threshold	Scenedesmus quadricauda	1800 mg/L (7 d) [1]
		[1] Comparison of the Toxicity Thresholds of Water Pollutants to Bacteria, Algae, and Protozoa in the Cell Multiplication Inhibition Test, Water Research Vol. 14. pp. 231 to 241		

Persistence and degradability.

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No information is available regarding the biodegradability of the substances present.
No information is available on the degradability of the substances present.
No information is available about persistence and degradability of the product.
Bioaccumulative potential.
Information about the bioaccumulation of the substances present.

Name	Bioaccumulation			
	Log Pow	BCF	NOECs	Level
isopropanol,isopropyl alcohol,propan-2-ol CAS No: 67-63-0 EC No: 200-661-7	0,05	-	-	High

Mobility in soil.
No information is available about the mobility in soil.
The product must not be allowed to go into sewers or waterways.
Prevent penetration into the ground.

Other adverse effects.
No information is available about other adverse effects for the environment.

Section 13: Disposal Considerations.

Waste treatment methods.
Do not dump into sewers or waterways. Waste and empty containers must be handled and eliminated according to current, local/national legislation.
Follow the provisions of the Resource Conservation and Recovery Act (RCRA) and the Resource Conservation and Recovery Act Information (RCRAInfo) regarding waste management.

Section 14: Transport Information.

Transportation is not dangerous. In case of road accident causing the product's spillage, proceed in accordance with point 6.

In accordance with DOT

Not Dangerous Good.

Regulations Concerning the International Carriage of Dangerous Goods by Road (ADR)

Not Dangerous Good.

Section 15: Regulatory Information.

Safety, health and environmental regulations specific for the product.
VVOC content (p/p): 0 %
VVOC content: 0 g/l
VOC content (p/p): .157 %
VOC content: 1.758 g/l
SVOC content (p/p): 0 %
SVOC content: 0 g/l
VVOC: Very volatile organic compounds.
VOC: Volatile organic compounds.
SVOC: Semi volatile organic compounds.

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Information on the TSCA Inventory (Toxic Substances Control Act) USA:

CAS No	Name	State
67-63-0	isopropanol,isopropyl alcohol,propan-2-ol	Registered
10043-35-3	boric acid	Registered
7664-38-2	phosphoric acid, orthophosphoric acid	Registered
11138-66-2	Xanthan gum	Registered
127-08-2	Potassium acetate	Registered
57-13-6	urea	Registered
7722-76-1	ammonium dihydrogenorthophosphate	Registered
7732-18-5	water	Registered
7757-79-1	potassium nitrate	Registered
7778-77-0	potassium dihydrogenorthophosphate	Registered
7778-80-5	potassium sulfate	Registered

The product is not affected by the procedure established by the Rotterdam Convention, concerning the export and import of dangerous chemicals.

The Superfund Amendments and Reauthorization Act (SARA).
SARA Title III and it sets requirements for local and state emergency planning around hazardous chemicals, the right of the public to access information on chemical hazards in their community, and the reporting responsibilities for facilities that use, store, and / or release hazardous chemicals.

SARA Title III has four provisions (any facility with responsibilities under one section will likely have additional responsibilities under another section, consult SARA for more information):
-Emergency Planning (Sections 301-303)
-Emergency Release Notification (Section 304)
-Hazardous Chemical Storage Reporting Requirements (Section 311-312)
-Toxic Chemical Release Inventory (Section 313)

Information related to the product:
Section 302, Extremely Hazardous Substances (EHSs)(40 CFR part 355 Appendix A and Appendix B) and section 304, in the event of an accidental chemical release that exceeds minimal Reportable Quantity (RQ):

Not Applicable.

Section 311, Requires facilities with hazardous chemicals in quantities above certain thresholds (consult OSHA for more information) to provide copies of the SDSs for those chemicals to the State Emergency Response Commission (SERC), Local Emergency Planning Committee (LEPC) and local fire department.

Section 312, Companies with chemicals in sufficient quantities to trigger obligations under Section 311 must also submit an annual emergency and hazardous chemical inventory form to the State Emergency Response Commission (SERC), Local Emergency Planning Committee (LEPC) and local fire department

Section 313, requires facilities with 10 or more employees that use certain toxic chemicals in quantities above threshold levels to report annually on the use, release and disposal of those chemicals, substances identified in section 3:

Name	Category	Category Description	Category Member	Concentration
isopropanol,isopropyl alcohol,propan-2-ol CAS No: 67-63-0	-	-	-	0 - 10 %
potassium nitrate CAS No: 7757-79-1	N511	Nitrate compounds (water dissociable, reportable only when in aqueous solution)	-	10 - 25 %

Category member:

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c Although not listed by name and CAS number, this chemical is reportable under one or more of the EPCRA section 313 chemical categories.
i Although not specifically listed by name and CAS number, this chemical is an isomer that is reportable under a listed EPCRA section 313 CAS number.
s Indicates that this chemical is currently under an administrative stay of the EPCRA section 313 reporting requirements, therefore, no TRI reports are required until the stay is removed.
X Indicates that this is a second name for an EPCRA section 313 chemical already included on this consolidated list. May also indicate that the same chemical with the same CAS number appears on another list with a different chemical name.

Visit the EPA's website for the most up-to-date information on EPCRA and other environmental considerations.

Proposition 65 warnings
Information related to The Safe Drinking Water and Toxic Enforcement Act of 1986, (better known by its original name of Proposition 65):

There are no substances in section 3 present in the list of chemicals that can cause cancer, birth defects or other reproductive harm (Proposition 65 List).

Section 16: Other Information.

Complete text of the hazard statement(s) that appear in section 3:

H225	Highly flammable liquid and vapor.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H360	May damage fertility or the unborn child.

Classification codes:

Eye Irrit. 2A: Eye irritation, Category 2A
Flam. Liq. 2: Flammable liquid, Category 2
Repr. 1B: Reproductive toxicant, Category 1B
STOT SE 3: Specific target organ toxicity following a single exposure, Category 3

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Physical hazards	On basis of test data
Health hazards	Calculation method
Environmental hazards	Calculation method

It is recommended that the product only be employed for the purposes advised.

Abbreviations and acronyms used:

BCF:	Bioconcentration factor.
DMEL:	Derived Minimal Effect Level, exposure level corresponding to a low risk, that risk should be considered a tolerable minimum.
DNEL:	Derived No Effect Level, level of exposure to the substance below which adverse effects are not anticipated.
EC50:	Half maximal effective concentration.
PPE:	Personal protection equipment.
LC50:	Lethal concentration, 50%.
LD50:	Lethal dose, 50%.
NOEC:	No observed effect concentration.
PNEC:	Predicted No Effect Concentration, concentration of the substance below which adverse effects are not expected in the environmental compartment.

Key literature references and sources for data:
The Hazard Communication Standard (HCS) (29 CFR 1910.1200)
United Nations Globally Harmonized System of Classification and Labelling of Chemicals (GHS)
https://www.osha.gov

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https://www.epa.gov/
http://echa.europa.eu/

The information given in this Safety Data Sheet has been drafted in accordance with The Hazard Communication Standard (HCS) (29 CFR 1910.1200) and United Nations Globally Harmonized System of Classification and Labelling of Chemicals (GHS). Employers must ensure that the SDSs are readily accessible to employees for all hazardous chemicals in their workplace.

The information in this Safety Data Sheet on the Preparation is based on current knowledge and national laws, as far as the working conditions of the users is beyond our knowledge and control. The product must not be used for purposes other than those that are specified without first having written instructions on how to handle. It is always the responsibility of the user to take the appropriate measures in order to comply with the requirements established by current legislation. The information contained in this Safety Sheet only states a description of the safety requirements for the preparation, and it must not be considered as a guarantee of its properties.

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