

MATERIAL SAFETY DATA SHEET
TurfVantage™ NanoBoost®

Manufactured by: Heartland Solutions, Inc.
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 Grain Valley, MO 64029 USA
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Analysis: NanoBoost®
Date: September 17, 2014
Contact: Steve Rowley
Emergency #: (816) 550-5591

SECTION I - MATERIAL IDENTIFICATION

CHEMICAL NAME AND SYNONYMS: Not Applicable
 TRADE NAME AND SYNONYMS: TurfVantage™ NanoBoost®

CONTROL # N-59PT-4PNG9501PH2

CHEMICAL FAMILY: Not Applicable
 FORMULA: See Section 2

SECTION II - INGREDIENTS AND HAZARDS

An aqueous solution containing Nano particles fused and suspended with a surface active compound in a liquid form. Nano particles >75nm. Preparation does not contain ingredients listed as a dangerous substance in Annex 1 of the EEC directive 67/548

SECTION III - PHYSICAL DATA

Boiling point at 1 atm, degree C	100	Specific gravity (H ₂ O = 1)	~1.01
Vapor pressure at (n/m Hg)	as for H ₂ O	Evap. Rate (not applicable = 1)	
Vapor density (Alt = 1)	N/A	Volatiles, % by volume	N/A
Water solubility	Dispersible	Molecular weight	N/A
pH	6.0-7.0		
Appearance & Odor:	Translucent Liquid, Mild sweet odor		

SECTION IV - FIRE AND EXPLOSION DATA

			LOWER	UPPER
Flash Point and Method Not Applicable	Autoignition Temp. Not Applicable	Flammability Limits Non-flammable	Not Applicable	Not Applicable

Extinguishing media: Any. Solutions are non-flammable liquid.

Special fire fighting procedures: None

Unusual fire and explosion hazards: None

SECTION V - HEALTH HAZARD INFORMATION

Effects of overexposure: Solutions are considered to be low health hazards

FIRST AID: Eye Contact:	May Cause Irritation. Wash immediately with copious quantity of water. If irritation persists, get medical attention.
Skin Contact:	May cause irritation. Flush skin immediately and thoroughly with water. If irritation persists, get medical attention.
Inhalation:	N/A
Ingestion:	Rinse mouth and throat and drink water to dilute. Excessive ingestion may cause nausea or diarrhea.

SECTION VI - REACTIVITY DATA	
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Stability	Stable	X	Conditions to avoid: Temperatures above 90° F. High heat may release CO2. Release pressure before using.
	Unstable		

Incompatibility (Materials to Avoid): Alkaline, high ph additives and cleaners

Hazardous decomposition products: None

Hazardous Polymerization	May occur		Conditions to avoid:
	Will not occur	X	

SECTION VII - SPILL, LEAK AND DISPOSAL PROCEDURES	
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SPILLS, LEAKS: (Steps to be taken): After spillage, dilute with water and wash to drain. Do not use high-pressure water jet. Wash contaminated clothing. This product may cause excessive foaming when it comes in contact with high water pressure. Care should be taken to ensure product is not introduced to drinking water or foodstuffs.

WASTE DISPOSAL METHODS: This product is believed not to be dangerous to the environment with respect to mobility, persistency and degradability, bio-accumulative potential, aquatic toxicity and other data relating to eco-toxicity. No special disposal method required, except that it be in accordance with current local authority regulations.

SECTION VIII - SPECIAL PROTECTION INFORMATION	
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Respiratory protection (Specific Type) Respirators are not required.

Ventilation:	Local Exhaust:	Adequate	Special:
	Mechanical General:		Other:

Protective Gloves:	Gloves recommended	Eye Protection: Recommended when handling large quantities
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Other protective equipment and precautions: Not generally required

SECTION IX - SPECIAL PRECAUTIONS AND COMMENTS	
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Storage and handling Information: All materials should be handled under good housekeeping practices. Wash hands after use. Wear gloves if exposure is prolonged. Store container in a dry and cool place and keep from freezing. Store product in a temperature range between 55°F to 75°F; keep container closed when not in use. Always use clean and sterilized handling equipment when re-packaging and transferring product.

Other Precautions: None

DOT Class: This product is classified a non-hazardous liquid.

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