



## SAFETY DATA SHEET

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#### **1. IDENTIFICATION OF THE SUBSTANCE**

**Product name:** NANOBOOST® for Herbicides

Description: Nano particles fused with a liquid catalyst buffer and suspended with surface active compound in a liquid form.

Control# N-59PT-4PNG9501PH2

**Manufacturer:**

Heartland Energy Group, Ltd.  
626 Valley Ridge Ct.  
Grain Valley, MO 64029  
Tel: 816.867.2054  
Emergency Contact: 1-800-424-9300

#### **2. COMPOSITION AND INFORMATION ON INGREDIENTS**

Chemical characterization of active component: An aqueous solution containing Nano particles fused and suspended with a surface active compound in a liquid form.

**Particle Size:** Nano particles >75nm

Synonyms: Not applicable.

#### **3. HAZARDS IDENTIFICATION**

Excessive ingestion may cause nausea or diarrhea. May be irritant to skin and eyes.

#### **4. FIRST AID MEASURES**

Skin contact: Wash off with plenty of water.

Eye contact: Wash immediately with copious quantity of water.

Ingestion: Rinse mouth and throat and drink water to dilute.

Inhalation: Not applicable.

If symptoms persist seek medical advice

**5. FIRE FIGHTING MEASURES**

Suitable fire fighting extinguishing media: Any (Non flammable liquid)

Non-suitable media: None

Special exposure hazards: None

Protection against fire and explosions: Not applicable

**6. ACCIDENTAL RELEASE MEASURES**

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.

**7. HANDLING AND STORAGE**

All materials should be handled under good housekeeping practices. Wash hands after use. Wear gloves if exposure is prolonged. Care should be taken to ensure product is not introduced to drinking water or foodstuffs. 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.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Personal protective equipment

Respiratory protection: Not required

Hand protection: Gloves recommended

Eye Protection: Recommended when handling large quantities

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: Translucent Liquid

Odor: Mild sweet

PH: 6.0 To 7.0

Solubility in water: Dispersible

Boiling Point: 100°C

Melting Point: Not applicable

Flash Point: Not applicable

Flammability: Non flammable

Vapor Pressure (mm Hg): as for H<sub>2</sub>O

Specific Gravity: 1.01

**10. STABILITY AND REACTIVITY**

The material is stable under normal conditions of use.

Conditions to avoid: Temperatures above 90° F. High heat may release CO2. Release pressure before using.

Materials to avoid: Alkaline, high ph additives and cleaners.

Hazardous decomposition products: None

**11. TOXICOLOGICAL INFORMATION**

Toxicity: No acute toxicity

Pathogen city: None

Carcinogen city: Not applicable.

**12. ECOLOGICAL INFORMATION**

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.

**13. DISPOSAL CONSIDERATIONS**

No special disposal method required, except that it be in accordance with current local authority regulations.

**14. TRANSPORT INFORMATION**

This product is classified a non-hazardous liquid.

**15. REGULATORY INFORMATION Health-1 Fire-0 Reactivity-0**

Preparation does not contain ingredients listed as a dangerous substance in Annex 1 of the EEC directive 67/548.

**16. OTHER INFORMATION**

The information contained in this Safety Data Sheet, as of the issue date, is believed to be true and correct. However, the accuracy of completeness of this information and any recommendations or suggestions, are made without warranty or guarantee. Since the conditions of use are beyond the control of our company, it is the responsibility of the user to determine the conditions of safe use of this product.

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