

SAFETY DATA SHEET

Section 1 - Identification of the substance/mixture and of the supplier

Trade Name: Varnimo IF

Product Code: VarnimoIF

Chemical Name: Bacterial Spore Concentrate

Application/Uses: Fertilizer Additive/Pesticide

Restrictions: None specified

Distributor Information: PERFORMANCE NUTRITION - A Division of LidoChem, Inc. 20 Village Court, Hazlet, NJ 07730
Phone: (732) 888 8000 • Fax: (732) 264 2751 • email: info@lidochem.com

Emergency Phone Number: CHEMTREC - Day or Night - at 800 424 9300

Section 2 - Hazard Identification

Classification of the substance or mixture (GHS-US)

The substance is not classified according to the Globally Harmonized System (GHS).

Physical Hazards

None

Hazard Statements

NOT CLASSIFIED

Precautionary Statements:

Precautionary Statements - Prevention, Response, Storage, Disposal

P262: Do not get in eyes, on skin, or on clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

Avoid contact with eyes and clothing. Avoid breathing spray mist. Wash thoroughly with soap and water after handling and before eating, drinking chewing gum, using tobacco and using the toilet.

GHS Label elements

Hazard Pictograms



Signal Word

None

HNOC - Hazards Not Otherwise Classified

No other hazards classified

Section 3 - Composition/Information on Ingredients

Chemical Identity: Proprietary Mixture

CAS#:	Common Name/Synonyms:	% by Wt.
N/A	Proprietary Mixture	None

Section 4 - First Aid Measures

Description of first aid measures

General Advice:

May cause eye irritation

If Inhaled:

Remove from further exposure to fresh air. Keep warm and at rest. Seek medical attention in case of complaints.

In Case Of Skin Contact:

In case of contact, wash with plenty of soap and water for at least 5 minutes. Apply a topical antiseptic agent. Generally the product does not irritate the skin.

In Case Of Eye Contact:

Flush eyes with large quantities of running water for a minimum of 15 minutes. If present and easy to do, remove contact lenses. Hold eyelids apart during the flushing to ensure rinsing of entire surface of the eye and lids with water.

If Swallowed:

If swallowed and symptoms occur, consult a doctor.

Most important symptoms and effects, both acute and delayed:

Mild irritation, and redness of eyes. Prolonged or repeated exposure may cause mild skin irritation. Nausea, vomiting or diarrhea may result from ingestion.

Indication of any immediate medical attention and special treatment needed:

None specified

Section 5 - Fire-fighting Measures

Extinguishing media:

Not combustible. Use extinguishing method suitable for surrounding fire. CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Specific Hazards arising from the substance or mixture:

If incinerated, product will release the following: Carbon Oxides.

Advice for firefighters:

Keep unnecessary people away, isolate hazard area and deny entry.

Further information:

Use extinguishing method suitable for surrounding fire.

Section 6 - Accidental release measures

Personal precautions, protective equipment and emergency procedures:

No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Put on appropriate personal protective equipment as recommended in Section 8. Wear appropriate protective gear for the situation. Avoid breathing dust.

Environmental precautions:

Dispose of material in accordance with local regulations. Flush the area with water.

Methods and materials for containment and cleaning up:

Collect as much as possible. Place reclaimed product in the container. Pesticide Storage: Varnimo™ WSP [This product] consists of living microbes. Store at room temperature, but do not exceed 95° F (35°C), and use within one year. Do not freeze. Close opened packages tightly. Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Container Handling: Non-refillable container. Do not reuse or refill this container. Empty bag completely into formulation equipment. Bring to recycling facility, if available, or

Section 7- Handling and Storage

Precautions for safe handling:

Store the material in a well ventilated, secure area out of reach of children and domestic animals.

Conditions for safe storage, including any incompatibilities:

Do not store food, beverages or tobacco products in the storage area. To maintain biological properties, DO NOT FREEZE and do not store above 100°F.

Section 8 - Exposure Control / Personal Protection

Control parameters:

Chemical Identity:	CAS #:	ACGIH Threshold Limit Values		OSHA PEL		NIOSH REL	
		TWA	STEL	TWA	STEL	TWA	STEL
Proprietary Mixture	N/A						

Appropriate engineering controls:

Individual protection measures, such as personal protective equipment:

Eye protection:

Wear Chemical Safety Goggles. Eye and face protection requirements will vary dependent upon work environment conditions and material handling practices. Appropriate ANSI Z87 approved equipment should be selected for the particular use intended for this material. It is generally regarded as good practice to wear a minimum of safety glasses with side shields when working in industrial environments.

Skin protection:

Skin contact should be minimized through use of gloves and suitable long sleeved clothing(i.e. shirts and pants). Considerations must be given both to durability as well as permeation resistance.

Section 8 - Exposure Control / Personal Protection (cont.)

Body protection:

Respiratory protection:

Wear a dust respirator. Select NIOSH/MSHA approved equipment based on actual or potential airborne concentrations and in accordance with the latest OSHA standard (29 CFR 1910.134) and/or ANSI Z88.2 recommendations. Consult supervisor for guidance.

General safety and hygiene measures:

All food / smoking materials should be kept in a separate area away from the storage/use location. Eating, drinking and smoking should be prohibited in areas where there is a potential for significant exposure to this material. Before eating, drinking or smoking, hands and face should be thoroughly washed. Facilities storing or using this material should be equipped with an eyewash and safety shower.

Section 9 - Physical and Chemical Properties

Appearance (physical state, color, etc):	Tan powder
Odor:	Odorless
Odor threshold:	No data available
pH:	not determined
Melting point:	Not known
Freezing point:	No data available
Initial boiling point:	Not known
Boiling range:	No data available
Flash point:	Non flammable
Evaporation rate:	No data available
Flammability (solid, gas):	No data available
Upper/lower flammability or explosive limits:	No data available
Vapor pressure:	Not rated
Vapor density:	Not rated
Relative density:	No data available
Solubility:	Partially
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	Not determined
Decomposition temperature:	No data available
Viscosity:	No data available
Specific gravity:	Not known

No data available

Bulk Density:

Section 10 - Stability and Reactivity

Reactivity:

No data available

Chemical stability:

This material is stable under normal handling and storage conditions.

Possibility of hazardous reactions:

No data available

Conditions to avoid (i.e. static discharge, shock or vibration):

Moisture

Incompatible materials:

None known.

Hazardous decomposition products:

None known.

Section 11- Toxicological Information

Likely routes of exposure:

Eye and Skin, Ingestion and Inhalation

Symptoms related to physical, chemical and toxicological characteristics and delayed and immediate effects and chronic effects from short and long term exposure:

Acute Toxicity:

No data available

Skin corrosion/irritation:

irritating to human skin

Serious eye damage/eye irritation:

irritating to human eyes

Respiratory or skin sensitization:

No data available

Carcinogenicity:

This product does not contain any substances that are considered by OSHA, NTP, IARC or ACGIH to be "probable" or "suspected" human

carcinogens. No information found on Mutagenicity.

Section 11- Toxicological Information (cont.)

Germ cell mutagenicity:

No data available

Reproductive toxicity:

No test data found for product.

Specific target organ toxicity - single or repeated exposure:

Not determined

Aspiration hazard:

No data available

Symptoms after inhalation:

No data available

Symptoms after skin contact:

No data available

Symptoms after eye contact:

No data available

Symptoms after ingestion:

No data available

Section 12- Ecological Information

Ecotoxicity (aquatic and terrestrial, where available):

Toxicity to fish (acute and chronic):

No data available

Toxicity to daphnia and other aquatic invertebrates (acute and chronic):

No data available

Toxicity to algae:

No data available

Section 12- Ecological Information (cont.)

Persistence and degradability:

No test data found for product.

Bioaccumulative potential:

No data available

Mobility in the soil:

No data available

Other adverse effects:

No test data found for product.

Section 13 - Disposal Considerations

Waste treatment methods - product:

Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate. Be advised that state/local requirements for waste disposal may be more restrictive or otherwise different from federal laws and regulations. Consult state/local regulations regarding proper disposal of material. Chemical additions, processing or otherwise altering this material may make the waste management information presented incomplete, inaccurate or otherwise

Waste treatment methods - container:

Be advised that state/local requirements for container disposal may be more restrictive or otherwise different from federal laws and regulations. Consult state/local regulations regarding proper disposal of container.

Section 14 - Transport Information - US DOT, IATA, IMO, ADR:

Proper Shipping Name:	Bacillus amyloliquefaciens Strain PTA-4838, 5 X 10 ¹¹ cfu/g minimum, 71.2% active w/ 28.8% inert		
D. O. T. Hazard Class:	Not Regulated by D.O.T.	UN #:	N/Ap
Label Requirement:	None	RQ:	N/Ap
Placard:	None	CAS:	N/A
Packing Group:	N/Ap	ERG Book Information:	None
Environment Hazards:	No	Marine Pollutant:	No
Special Precautions:	No	IATA:	No

Section 15 - Regulatory Information

U.S. Federal - OSHA Status:

This product does NOT contain any products considered hazardous under the Federal OSHA HazCom. Standard 29 CFR 1910.1200.

TSCA Status:

Not Listed/Non-reportable

SARA Title III Section 302 - EXTREMELY HAZARDOUS SUBSTANCES:

This product does NOT contain ingredients listed in Appendix A and B as Extremely Hazardous substances.

Section 15 - Regulatory Information (cont.)

SARA Title III Sections 311/312:

N/A

SARA Section 313 Toxic Chemicals:

This product contains the following toxic chemical subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right to Know Act:

CAS# Chemical Name:

This material does NOT contain any chemical components with known CAS numbers that exceed the threshold reporting levels.

SARA Superfund Section 110:

This product does NOT contain ingredients listed as hazardous substances on the Priority List of CERCLA Hazardous substances.

CERCLA, 40 CFR 117, 302:

This product does NOT contain ingredients specified in the List of Extremely Hazardous Substances.

CERCLA listed substances are:

none

Other Federal Reporting Requirements:

CAA: This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act

CWA: No chemicals in product are listed a Hazardous Substances, Priority Pollutants or Toxic Pollutants under the CWA.

RCRA: Not considered a hazardous waste.

State Reporting Requirements:

State Right to Know Laws:

CAS#	State RTK	Chemical Name
		None

CALIFORNIA PROPOSITION 65:

To the best of our knowledge, this product does NOT contain any of the listed chemicals, which the state of California has found to cause cancer, birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

Michigan Critical Materials:

This product does NOT contain ingredients listed on the Michigan Critical Materials Register.

Global Lists/International Inventories:

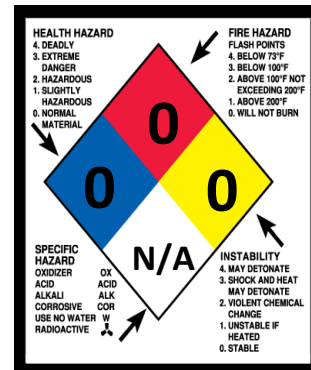
Canada CEPA: All intentional ingredients are NOT listed on the DSL.

Canada WHMIS: Not controlled

Section 16 - Other Information

Reviewed 9-15-2016 this replaces all previous MSDS's.

8-20-18 - Reviewed, updated California Proposition 65 statement, this replaces all previous SDS's.



Date of last revision:
8-20-2018

NOTICE: OSHA STANDARD 29 CFR 1910.1200 requires that information be provided to employees regarding the hazards of chemicals by means of a Hazard Communication Program including training, labeling, Safety Data Sheets, and access to written records. We request that you, and it is your legal duty, make all information in this Safety Data Sheet available to your employees.

Key Legend Information:

- | | | | |
|-----------------|--|---------|--|
| N/Ap: | Not Applicable | ND: | Not Determined |
| N/R: | Not Rated | NDA: | No Data Available |
| ACGI: | American Conference of Gov'rntal Industrial Hygienists | TLV: | Threshold Limit Value |
| OSHA: | Occupational Safety and Health Administration | TWA: | Time Weighted Average |
| PEL: | Permissible Exposure Limit | NTP: | National Toxicology Program |
| STEL: | Short Term Exposure Limit | TSCA: | Toxic Substance Control Act |
| IARC: | International Agency for Research on Cancer | CERCLA: | Comprehensive Response, Compensation and Liability Act |
| SARA Title III: | Superfund Amendments and Reauthorization Act | CWA: | Clean Water Act |
| CAA: | Clean Air Act | | |
| RCRA: | Resource Conservation Recovery Act | IMO: | International Maritime Organization Shipping Info. |
| IATA: | International Air Transport Association Shipping Info. | WHMIS: | Workplace Hazardous Materials Information System |
| DSL: | Domestic Substance List (Canada) | | |

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind expressed or implied is made with respect to the information contained herein. This Safety Data Sheet was prepared to comply with OSHA Hazard Communication standard. (29 CFR 1910.1200 HazCom 2012). This supersedes any previous information. Since the actual use by others is beyond our control, no guarantee, expressed or implied, is made by LidoChem, Inc. as to the effects of such use or the results to be obtained, nor does LidoChem, Inc. assume any liability arising out of use, by others, of the products referred to herein. Nor is the information herein to be construed as absolutely complete since additional information may be necessary or desirable when particular or exceptional conditions or circumstances exist because of applicable laws or government regulations. All LidoChem Inc. SDS's are reviewed every three years or sooner if necessary. Please check the Review Date on Page 1 for most current version. Please request a new SDS from LidoChem, Inc. if the date is older than 3 years.