



NutriPlusTM
Nutrient Package
SAFETY DATA SHEET

Effective Date: 06/28/14

1. Product Identification

Synonyms: Nutrient Package
Recommended Use: Treatment of groundwater contaminated with chlorinated solvents and other anaerobically degradable compounds.
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2. Hazards Identification

Emergency Overview

Caution: May cause eye irritation.
Health Rating: 1 - Slight
Flammability Rating: 0 - None
Reactivity Rating: 0 - None
Contact Rating: 1 - Slight
Protective Equipment: Goggles; Proper Gloves
Storage Color Code: Orange (General Storage)
Potential Health Effects
Inhalation: Not expected to be a health hazard
Ingestion: Not expected to be a health hazard via ingestion
Skin Contact: Possible irritant and allergen.
Eye Contact: May cause irritation, possible reddening
Chronic Exposure: No information found No adverse effects expected
Aggravation of Pre-existing Conditions: No information found



3. Composition/Information on Ingredients

Ingredient	CAS#	Percent	Hazardous
Liquid Yeast Extract	8013-01-2	90-97.5	
Vitamin B ₁₂	68-19-9	<1	No
Diammonium Phosphate	7783-28-0	2.5-9	No

Molecular Weight: No available
Chemical Formula: Not available

4. First Aid Measures

Inhalation: Not expected to require first aid measures. Remove to fresh air. Get medical attention for any breathing difficulty.

Ingestion: If large amounts were swallowed, give water to drink and get medical advice.

Skin Contact: Not expected to require first aid measures. Wash exposed area with soap and water. Get medical advice if irritation develops.

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention if irritation persists.

5. Fire Fighting Measures

Fire: Not considered to be a fire hazard.

Explosion: Not considered to be an explosion hazard.

Fire Extinguishing Media: Use any means suitable for extinguishing surrounding fire.

Special Information: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.

6. Accidental Release Measures

Clean-up personnel may require protective clothing. Absorb in sand, paper towels, "Oil Dry", or other inert material. Scoop up and containerize for disposal. Flush trace residues to sewer with soap and water. Containerized waste may be sent to an approved waste disposal facility.



7. Handling and Storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Avoid long storage times. Containers of this material may be hazardous when empty since they do retain product residues (vapors, liquid). Observe all warnings and precautions listed for the product.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits:	None established.
Ventilation System:	Not expected to require any special ventilation.
Personal Respirators (NIOSH Approved):	Not expected to require personal respirator usage.
Skin Protection:	Wear protective gloves and clean body-covering clothing.
Eye Protection:	Use chemical safety goggles and/or a full face shield where splashing is possible. Provide readily accessible eye wash stations and safety showers.

9. Physical and Chemical Properties

Appearance:	Yellow, orange, or brown liquid.
Odor:	Yeast
Solubility:	Partially soluble in water.
Specific Gravity (water=1):	1.22. (10.17 pounds per gallon)
pH:	5.0-8.0
% Volatiles by volume @ 21C (70F):	No information found.
Boiling Point:	105 C (221 F)
Melting Point:	No information found
Flash Point (F):	>500 C (>932 F)
Autoignition Temperature:	No information found
Decomposition Temperature:	No information found.
Vapor Density (Air=1):	No information found.
Vapor Pressure (mm Hg):	3.8 @ 0 C (32 F)
Evaporation Rate (BuAc=1):	No information found.
Viscosity @23 C (73 F):	No information found.
Partition Coefficient (octanol/water):	No information found

10. Stability and Reactivity

Stability:	Stable under ordinary conditions of use and storage.
Reactivity:	Not reactive under ordinary conditions.
Hazardous Decomposition	



Products:	Carbon dioxide and carbon monoxide may form when heated to decomposition.
Hazardous Polymerization:	Will not occur.
Incompatibilities:	Strong oxidizers, acids.
Conditions to Avoid:	Incompatibles. Isolate from heat and open flame.

11. Toxicological Information

No information found.

12. Ecological Information

Environmental Fate:	Mobile with water and readily biodegradable
Environmental Toxicity:	Ecological injuries are not known or expected under normal use;
Degradability:	This product is completely biodegradable under both aerobic and anaerobic conditions.
Soil Mobility:	This compound will move with groundwater until the adsorbed onto the soil. Degradation products may be mobile.
Bioaccumulation Potential:	No information found.

13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

Non-hazardous - not regulated.

15. Regulatory Information

This product does not meet the definition of a hazardous material given in the U. S. Occupational Safety and Health Administration's Hazard Communication Standard.



16. Other Information

NFPA Ratings: Health: **1** Flammability: **0** Reactivity: **0**
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