



MATERIAL SAFETY DATA SHEET
PRODUCT: Cal 86 Plus

Section 1 – Chemical Product & Company Identification

Trade Name: Cal 86 Plus
Chemical Family: Mixture
Product Description: A blend of humic acid, bacterial cultures, amino acids and compounded calcium which is non-hazardous.
Manufacturer: 3 Tier Technologies, LLC
250 National Place, Suite 142, Longwood, FL 32750
Technical Support: 877-226-7498
Chemical Emergency: 407-808-4653
Issue Date: 03/24/2015

Section 2 – Hazards Identification

Emergency overview: Avoid contact with eyes. Mild skin irritation.

Potential health effects:

Eyes: Contact with eyes may cause severe irritation.
Skin: May cause irritation upon prolonged contact.
Inhalation: None known
Ingestion: May cause irritation/nausea if ingested in large quantities

Section 3 – Composition / Information on Ingredients

Components	CAS #	Percent
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Cal 86 Plus is a blended composition “not considered hazardous” under the OSHA Hazard Communication Standard CFR Title 29 1910.1200. All ingredients appear on the EPA TSCA Inventory. All Bacillus Bacteria contained in this product are DSL Listed and Compliant.

Humic Acid	1415-93-6	75%
Calcium	17140-60-2	8%
Nitrogen	13477-34-4	6%
Amino Acids	Various	7%
Bacillus Bacteria	ATCC 18250-7	4%

Ingredients of <1% have been added to a non-hazardous liquid organic substrate. Active components >4% are identified above.

Section 4 – First Aid Measures

First aid procedures

- Eye contact:** Immediately flush eyes with plenty of water for at least 15 minutes. Seek medical attention if irritation persists.
- Skin Contact:** Flush skin with large amounts of water. Remove any contaminated clothing and wash before reuse. Seek medical attention if irritation occurs.
- Inhalation:** If symptoms are experienced, remove source of contamination and/or move victim to fresh air. If breathing is difficult, have trained personnel administer oxygen. If respiration stops, have trained personnel administer artificial respiration. Get medical attention immediately.
- Ingestion:** Give large amounts of water. Do not induce vomiting. If vomiting occurs prevent aspiration by keeping victim's head below the knees. Get immediate medical attention.

Section 5 – Fire Fighting Measures

Flash Point: None

Extinguishing

Media: Water fog or fine spray, carbon dioxide, dry chemical or foam. No special requirements

Fire fighting

Protection: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Section 6 – Accidental Release Measures

Personal

Precautions: Isolate area. Keep unnecessary personnel away. Keep out of low areas. Ventilate closed spaces before entering. Use of safety glasses and impervious gloves recommended.

Environmental

Precautions: Prevent further leakage or spillage if safe to do so.

Methods for

Containment: Prevent entry into waterways, sewers, basements or confined areas.

Methods for

Clean-up: Wear appropriate protective equipment and clothing during clean-up.

Large spill: Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Dispose in accordance with all local, state and federal regulations.

Small spill: Follow same procedure as above.

Section 7 – Handling and Storage

Handling: Avoid contact with skin and eyes. Wash hands thoroughly after handling.

Storage: Store this product below 120°F (49°C), preferably below 75°F (24°C), in a cool, dry, well ventilated area away from heat, sparks, flame, oxidizers and out of direct sunlight. For best results, use within 24 months.

Section 8 – Exposure Controls, Personal Protection

Personal Protection

General: Eye wash fountain is recommended. Minimize exposure in accordance with good hygiene practices. Keep out of reach of children.

Eyes: Wear chemical goggles.

Skin: Suitable protective clothing is recommended but not required. Use impervious gloves.

Respiratory: None required for recommended use. Avoid creating aerosols in poorly ventilated areas.

Section 9 – Physical & Chemical Properties

Vapor Pressure:	Equivalent to Water
Vapor Density (air = 1):	Equivalent to Water
Specific Gravity:	1.1-1.5 approx.
Solubility in water:	Complete
VOC:	Negligible
Appearance:	Brown/Black Liquid
pH:	7.5 – 9.5
Boiling Point:	>212°F (100°C)
Flash Point:	None
Freezing Point:	<32°F (0°C)
Evaporation Rate:	Not Determined
Weight:	8.7 – 9.2 lbs/gallon
Odor:	Natural / Earthy

Section 10 – Stability & Reactivity

Chemical Stability: Stable at normal conditions.

Incompatible Materials: Strong oxidizing agents, alkalis

Hazardous Decomposition Products: None known.

Conditions to avoid: See Section 7.

Hazardous Polymerization: Will not occur.

Section 11 – Toxicology Information

Toxicology data: Not available.

Section 12 – Ecological Information

Ecotoxicity: Readily biodegradable.

Section 13 – Disposal Considerations

Disposal instructions: Dispose in accordance with all applicable regulations. All wastes must be handled in accordance with local, state and federal regulations. Regulations vary.

Section 14 – Transportation Information

General information: Non-hazardous.

US DOT: Not regulated.

Proper Shipping Description: Class 55

Section 15 – Regulatory Information

TSCA Inventory Status: This product and/or all of its components are either included on or exempt from the TSCA Inventory of Chemical Substances.

DSL (Canada): This product and/or all of its components are either included on or exempt from the Domestic Substances List.

Section 16 – Other Information

HMIS ratings: Health: 1
Flammability: 0
Physical hazard: 0

NFPA ratings: Health: 1
Flammability: 0
Reactivity: 0

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