



InPlant Systems, Inc.



12251 FM 529 Road
Houston, Texas USA 77041
713-271-6061/713-271-7047

SAFETY DATA SHEET

Conforms with Federal OSHA Registration

Consistent with UN GHS

CAGE Code 7H4A1

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: Fast-N-Green™ <i>Bio-D- Grader Cleaner/Remediation Agent (Nano-Surfactant Concentrate)</i>	Product Use: Industrial Degreaser / Environmental Remediation Agent Concentrate, Hydrocarbon Contaminant Mitigation, Hydrocarbon Volatiles Suppression
Manufacturer's Name: InPlant Systems, Inc.	Emergency Telephone: 713-271-7047
Address: 12251 FM 529 Rd., Houston, Texas 77041 (Manufacturing Office)	Telephone Number: 713-271-6061
Date Originated: June 1995	Date Updated: March 15, 2019

D.O.T Class: Not Regulated

Formula: Proprietary/Patented

Chemical Family: Microbe/Enzyme enhanced, biodegradable Nano-surfactant/remediation agent/ dispersant/vapor- Suppressant – Industrial Super-Concentrate

A UNIQUE BIOCHEMICAL FORMULATION RECOMMENDED FOR COMPATIBLE CLEANING OF MOST SURFACES AND MATERIALS. CONCOMITANTLY, IS AN AGGRESSIVE REMEDIATION AGENT FOR REMOVAL AND PRO-ACTIVE BIODEGRADATION OF ORGANIC AND HYDROCARBON CONTAMINANTS. ALSO EFFECTIVE AS A VOLATILE SUPPRESSION AGENT TO MITIGATE THE POTENTIAL OF CONTAMINANT FLAMMABILITY, COMBUSTION, FUME, AND ODOR HAZARDS FROM HYDROCARBON FUELS AND SPILLS. CONTINUED USE OF THE PRODUCT WILL INOCULATE AND INFUSE BOTH AEROBIC & ANAEROBIC MICROBES OVER TIME THAT WILL SUSTAINABLY ATTACH TO CONCRETE SURFACES, PIPE LINES, AND GREASE TRAPS TO ENHANCE THE EFFICIENCY OF EXISTING WASTE-WATER TREATMENT SYSTEMS. MANUFACTURER URGES EACH CUSTOMER OR RECIPIENT OF THIS SDS TO STUDY IT CAREFULLY TO BECOME AWARE OF AND UNDERSTAND THE UNIQUE CHARACTERISTICS AND PROPERTIES ASSOCIATED WITH THIS PRODUCT.

SECTION 2: HAZARD(S) IDENTIFICATION

THIS SECTION IDENTIFIES THE POSSIBLE HAZARDS ASSOCIATED WITH THE BIOCHEMICAL FORMULATION OF THE PRODUCT PRESENTED IN THIS SDS AND THE APPROPRIATE WARNING INFORMATION ASSOCIATED WITH THOSE HAZARDS.

HAZARD CLASSIFICATION OF FORMULATION:

- MAY BE HARMFUL IF SWALLOWED, INHALED, OR EXPOSED TO SKIN CONTACT OR EYES. MINOR IRRITATION MAY BE EXPERIENCED FROM INGESTION, INHALATION, OR PROLONGED EXPOSURE TO DIRECT SKIN CONTACT OR EYES

SIGNAL WORD: WARNING

PICTOGRAMS:



Reactivity: 0
Health: 1
Fire/Combustion: 0
Personal Protection 0

- Possible Irritant to digestive & Respiratory tracts, eyes, and skin (after Prolonged direct contact)

PRECAUTIONARY STATEMENT(S):

Ingestion:	May cause abdominal discomfort, nausea, and diarrhea- DON'T SWALLOW PRODUCT
Inhalation:	Mist may cause irritation of the respiratory tract- DON'T DIRECTLY BREATHE IN SPRAY OR MIST
Skin Contact:	Brief contact is not irritating. Prolonged contact may cause minor irritation or possible slight local redness- WASH THOROUGHLY AFTER HANDLING
Eye Contact:	May cause irritation, experienced as discomfort or burning, excess blinking and tear production – DO NOT GET IN EYES
Other Effects of Overexposure:	None currently known Use With Adequate Ventilation Surfactants Can Be Slippery On Hard Surfaces

Concentrated Surfactants Can Cause Foaming Problems If Mixed With Water

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

MIXTURE* (AS FOLLOWS) Biological Enzymes are ISO 9001:2000 Certifiable

Ingredient	CAS#	Wt.%	PWE/OSHA	TLV/AGGIH
Water & Aqueous Nutrients	7732-18-5 With 1-5 below	≤20%	NONE	NONE
Proprietary/Patented Blend of biological spores & enzymes (>80 Billion count/Gal), fatty acids, methyl esters, Glycerin, EDTA Biological Protein Encapsulation	1) 67784-80-9 2) 56-81-5 3) 20846-91-7 4) 7732-18-5 5) Proprietary Chemical H2O soluble Protein	≤10% <3% ≤1% >10% ≤10%	NONE	NONE
Proprietary	1) Proprietary	≥35%	NONE	NONE

Surfactant Blend	Blend Chemical 68002-97-1 34398-01-1			
	2) 64972-19-6	≤10%		
	3) 34398-01-1	≥15.0%		
	4) Proprietary Chemical	≥1.0%		

***Note:** The exact percentage (concentrations) and identities of some enzymes have been withheld to maintain status as a “Trade Secret.” However, all microbial cultures are tested using procedures recommended by the USDA, NSF, and AOAC to ensure that they are free of gram negatives, salmonella and shigella bacteria. The Center for Disease Control (CDC) classifies our strains of micro-organisms as Class I, consisting of biological agents that will not cause problems to humans or animals.

SECTION 4: FIRST-AID MEASURES

Initial care that should be given by untrained responders to an individual who has been exposed to the product and appears to be experiencing an adverse reaction is as follows:

- **INGESTION:** Give multiple glasses of milk or water
- **INHALATION:** Move person to fresh air
- **SKIN IRRITATION:** Rinse skin with water for 2 minutes
- **EYE IRRITATION:** Immediately flush eye(s) with water and continue for 15 minutes

Note: *Always obtain medical attention if any symptoms persist*

SECTION 5: FIRE-FIGHTING MEASURES

This product does not pose a flammability risk under normal circumstances. It is used at ambient temperatures and has a flash point at well over 550 °F. It also includes a volatile suppression agent to mitigate flammability, combustion and fume hazards.

Flash Point: 580°F (Cleveland Open Cup)

Products of combustion: Carbon Dioxide Gas

Suitable Extinguisher: Use an extinguishing agent suitable for the surrounding fire.

Non-Suitable Extinguisher: None Known, All types of fire-fighting agents and extinguishers are acceptable.

Special exposure hazards: In a fire or if heated, a pressure increase will occur and the product container may burst. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.

Special Protective Equipment: Use standard personal protective equipment (PPE). Wear self-contained breathing apparatus for fire-fighting, if deemed necessary.

SECTION 6: ACCIDENTAL RELEASE MEASURES

This section provides recommendations on the appropriate response to spills, leaks, or releases, including containment and cleanup practices to prevent or minimize exposure to people, properties, or the environment.

Surfaces may be slippery; use care to avoid falling. Contain spills immediately with inert materials (e.g. sand, earth, and absorbent media) or vacuum or mop up free product. To avoid gelling and foaming problems with concentrate, do not use water to flush until free material has been collected. Flushed discharges are not toxic to the environment. In fact the product is *Environmentally Pro-active* because, when activated by dilution water, the product surfactants and any emulsified contaminant hydrocarbons, oils, greases, and ambient organics in the rinsate will “transform” (*aerobically degrade*) to CO₂ and H₂O in 3 to 14 days, thus limiting environmental impacts from direct wastewater discharges. No Federal or State regulations are known which would prohibit emergency-spill discharges of this product.

WASTE DISPOSAL METHOD: Containers or contents can be disposed of as non-hazardous, non-toxic, unregulated waste. However, disposal must comply with all pertinent Local, State, and Federal regulations.

SECTION 7: HANDLING & STORAGE

Storage: Store in dry, temperature-controlled area, where temperatures do not fall below 55° F, where the liquid concentrate will become difficult to pour or temperatures above 125° F where biological activity will be degraded. Isolate storage area from areas reserved for eating, drinking and smoking. Do not store in an area with automatic emergency water sprinklers.

Store in accordance with local regulations. Keep container tightly closed and sealed until ready for use. Containers that have been opened should be carefully resealed and kept up right to prevent leakage. Do not store in unlabeled containers. Keep out of the reach of children.

Handling: Avoid prolonged contact with skin. Avoid contact with eyes. Use in well-ventilated areas. When using, do not eat or drink. Do not ingest product. Wash hands before eating and drinking, or smoking.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

This section indicates the exposure limits, engineering controls, and personal protective measures that can be used to minimize worker exposure.

Engineering measures: Provide readily accessible eye wash stations and safety showers. Provide natural or explosion-proof ventilation adequate to ensure elimination of any irritating fume buildup.

Personal protective equipment:

Respiratory protection: not required for properly ventilated areas.

Hand protection: Synthetic rubber gloves can be worn or required only when in direct contact with product for long periods or have chemical allergy sensitivity.

Eye Protection: Chemical resistant goggles or a face shield can be worn.

Skin & body protection: Wear a long sleeve shirt and trousers without cuffs.

Environmental exposure controls: Construct a dike or barrier/containment area to prevent spreading of cleaner concentrate for easier recovery, collection and wash-down.

Special instructions for protection & hygiene: Provide readily accessible eye wash stations and safety showers. Wash at the end of each work-shift and before eating, smoking or using the toilet.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Molecular Weight	NA, mixture
Boiling Point 760 mm Hg	>215° F
Specific Gravity (water = 1)	1.09
Percent volatile by wt.	.014
Flammable limits in air	not determined
Evaporation Rate	<.01
Reactivity Rate	None Known
Appearance	Clear Colorless unless dyed
Odor	Fragrance Upon Request
Fire Extinguisher Media	NA
Vapor Pressure at 20°C	<0.01 mmHg
Vapor Density (air = 1)	>1.0
Solubility in water	100% at 20°C
Flash Point	490°F (Pensky-Martens closed) 580°F (Cleveland Open Cup)
Freeze Temperature	43°F
pH (depending on % water dilution)	6.0 to 7.0
Shelf Life – concentrated surfactant activity	unlimited
Shelf Life – concentrated microbial activity	2.0 years
Shelf Life - diluted form surfactant activity	Three Months
Shelf Life – diluted form microbial activity	NA (depends upon concentration, aeration & agitation; ~ several weeks.)

SECTION 10: STABILITY and REACTIVITY

Stability:	Stable under normal storage conditions.
Reactivity:	No dangerous reaction known under conditions of normal prescribed use.
Hazardous Polymerization:	Will not occur
Incompatible Substances:	Will not occur; normally unreactive; However, avoid strong bases at high temperatures, strong acids, strong oxidizing agents and materials reactive with hydroxyl compounds. Burning could produce carbon monoxide and/or carbon dioxide.
Conditions to Avoid:	None known other than excessive heat.
Hazardous Decomposition Products:	CO ₂

SECTION 11: TOXICOLOGICAL INFORMATION

Non-Hazardous/Non-Toxic Formulation

Likely Routes of Exposure: Skin contact, skin absorption, eye contact, inhalation, and ingestion.

Acute Toxicity:

Ingestion:	No known significant effects or critical hazards
Inhalation:	No known significant effects or critical hazards
Eyes:	Mildly irritating to eyes
Skin:	May be mildly irritating to skin on some people

Potential Chronic Health Effects:

Target Organs:	None known
Carcinogenicity:	No known significant effects or critical hazards

Mutagenicity: No known significant effects or critical hazards
Teratogenicity: No known significant effects or critical hazards
Fertility Effects: No known significant effects or critical hazards
Developmental Effects: No known significant effects or critical hazards

Sensitization: According to our experience and to the information provided to us, the product does not have any harmful effects if it is used and handled as directed...

“THIS PRODUCT” is formulated using a range of microorganisms specifically selected from the natural environment. Finished products are tested using procedures recommended by the USDA, NSF, and AOAC to ensure that they are free of gram negatives, salmonella and shigella bacteria. The Center for Disease Control (CDC) classifies our strains of micro-organisms as Class I, consisting of biological agents that will not harm humans or animals.

SECTION 12: ECOLOGICAL INFORMATION

This section provides information to evaluate the environmental impact of the chemical(s) if it were released to the environment.

ENVIRONMENTAL EFFECTS: The cleaner concentrate is NOT RECOMMENDED OR INTENDED to be discharged into the environment. It may be harmful if released in large quantities in concentrated form by affecting oxygen demand or creating momentary and temporary shock to the surrounding environment. The product must be diluted with water to a minimum of 20:1 or greater for field use to properly activate the formulation blend of surfactants, optimize surface cleaning, as well as dissolve the encapsulated complex of microbes/enzymes and activate the biodegradation reaction present within the product. The diluted surfactant formulation prepared for field use is specifically designed to self-destruct within days in water and soil through the integral accelerated bioremediation process within the formula. In fact the product is the “only” industrial concentrate cleaner on the market that becomes a “Bio-Degrader” once the concentrated cleaner is diluted with water for use. Depending on the degradation times of the contaminants emulsified in the product and ambient temperature, the proprietary formulation will aerobically biodegrade itself and the emulsified contaminants to CO₂ and H₂O in approximately 3-14 days.

Chronic Toxicity: Not expected to cause long-term adverse effects in the aquatic environment.

Persistence & Degradability: 100% Biodegradable (Accelerated)

Mobility in Soil: Generally will absorb and adsorb to soil geology and biodegrade by naturally occurring integral and indigenous biological systems.

Safety for Wildlife: Product can be safely employed to decontaminate oil-covered wildlife.

Other Ecological Effects: None available

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Method:

This section provides guidance on proper disposal practices, recycling or reclamation of the chemical(s) or its container, and safe handling practices. To minimize exposure, the reader is also referred to Section 8 (Exposure Controls/Personal Protection) of this SDS.

This product and its containers can be disposed of as non-hazardous, non-toxic, unregulated waste. However, disposal must comply with all pertinent Local, State, and Federal regulations.

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some concentrated product residues. This material and its container must be disposed of in a safe way. Disposal of surplus and non-recyclable products should be via a licensed waste disposal contractor. Disposal of this concentrated product, and/or any contaminated by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispersal of spilled material and runoff and contact with soil, waterways, drains, and sewers should also comply with proper regulatory directives.

SECTION 14: TRANSPORT INFORMATION

This section provides guidance on classification information for shipping and transporting of hazardous chemical(s) by road, air, rail, or sea.

Transport Classification: This product is not classified as “dangerous” in the meaning of transport regulations. The transportation information is not intended to convey exhaustive specific regulatory data relating to this material.

DOT: Not dangerous goods
IATA: Not dangerous goods
IMDG/IMO: Not dangerous goods
TDG: Not dangerous goods
ICAO: Not regulated
ADR: Not regulated
RID: Not regulated

International Inventories:

TSCA: Complies
PICCS: Complies
KECL: Complies
ENCS: Complies
CHINA: Complies
AICS: Complies
DSL/NDSL Complies

SECTION 15: REGULATORY INFORMATION

This section identifies the safety, health, and environmental regulations specific for the product that are not indicated anywhere else on this SDS.

OSHA Hazard Communication Standard (29 CFR 1910.1.200)

*****MILD IRRITANT*****

Toxic Substances Control Act

*****NONE IDENTIFIED OR KNOWN TO EXIST*****

Federal EPA

Comprehensive Environmental Response Compensation, and Liability Act of 1980 (CERCLA) requires notification of National Response Center of release of Quantities of Hazardous Substances equal to or greater than the reportable quantities (RQs) in 40 CFR 302.4.

*****NONE IDENTIFIED OR KNOWN TO EXIST*****



Conforms with Federal OSHA Registration and is consistent with the UN Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Independently Tested & Compliant With FAA AC43-205 Protocol (Relevant ASTM Test Standards for Aviation) and SAE-AMS-J1526C Standards for Motor Vehicle Applications

FAA Approved and SAE Compliant

SAM and CAGE Code Registered for US Federal Government purchase and use

Complies With Executive Order 13834 for *bio-preferred* products

**Approved for use on oil-contaminated animals and waterfowl
(non-toxic/non-hazardous)**



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InPlant Systems, Inc.



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