SAFETY DATA SHEET

SECTION I - PRODUCT AND COMPANY IDENTIFICATION
Name of the Product: Inhibit 90
Product Use: Anti-Microbial Treatment (EPA Reg. #48737-1-34273)
Product Code: FG2126
Distributor:

Perma Incorporated
605 Springs Road
Bedford, MA 01730

Telephone Number for Information - (978) 667-5161
Emergency Phone Number - (800) 255-3924 ChemTel Inc.

SECTION II – HAZARD(s) IDENTIFICATION
2.1. Classification of the substance/mixture
Classification According to EC Directive EC No. 1272/2008: Hazard to the Aquatic Environment- Chronic Category 2
Hazards: Toxic to aquatic life with long lasting effects (H411)

Classification According to GHS
Eye Irritant-Category 2B
Hazard to the Aquatic Environment- Acute Category 2
Hazard to the Aquatic Environment- Chronic Category 2

Adverse human health and environmental effects:
No data available

2.2. Label Elements
Labeling According to GHS

Pictogram: Marine Pollutant

Signal Word: Warning

Hazard Statements: Causes eye irritation (H320)
Toxic to aquatic life with long lasting effects (H411)

Precautionary Statements: Wash hands and face thoroughly after handling (P264)
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing (P305+P351+P338)

SECTION III – Composition/Information On Ingredients

INGREDIENT	CAS#	WEIGHT (%)
Active Ingredient: Octadecylaminodimethyl Trimethoxysilyl propyl ammonium Chloride	Proprietary	~5%
Dilution Product: Octadecylaminodimethyl Trihydroxysilyl propyl ammonium Chloride	Proprietary	~5%
Methanol	67-56-1	~5%

SECTION IV – FIRST AID MEASURES

4.1. Description of First Aid Measures

Inhalation: Remove victim to fresh air; get medical attention if trouble breathing

Skin: Flush with generous amounts of water; get medical attention if rash or irritation develops

Eye: Flush with generous amounts of water; get medical attention if stinging or vision problems persist

Ingestion: Do not induce vomiting; get immediate medical attention

4.2. Most important symptoms and effects, both acute and delayed

Eye irritation

4.3. Indication of any immediate medical attention and special treatment needed

Continued eye irritation

SECTION V – FIRE FIGHTING MEASURES

5.1. Extinguishing Media

Suitable: Dry chemical, foam carbon dioxide; Water may be used to cool fire-exposed containers

Unsuitable: None known

5.2. Special Hazards

None known

Combustion Products: Thermal decomposition products may include, but not limited to, oxides of carbon, nitrogen, silicon, formaldehyde and chloride compounds

5.3. Advice for Fire Fighters

Full protective clothing including NIOSH approved self-contained, positive pressure or pressure demand breathing apparatus; do not flush down drains or sewers

SECTION VI – ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions

Avoid contact with material; contact appropriate spill clean-up personnel; use the following personal protective equipment: gloves, safety glasses or goggles, as defined in Section 8.2

6.2. Environmental Precautions

Do not allow material to reach natural waterways or drains/sewers

6.3. Clean-up Methods

Use absorbent material to collect small spills for disposal/dikes and vacuum pumps should be used to contain and remove large spills

6.4. Reference to other sections

Refer to Sections 8 and 13

6.5. Hazchem Code

Not applicable

SECTION VII – HANDLING AND STORAGE

7.1. Safe Handling

Do not get in eyes, on skin or clothing; do not breathe vapors or mists; keep container closed; use only with adequate ventilation; use good personal hygiene practices; keep away from heat and flame

7.2. Safe Storage

Store in tightly closed containers in cool, dry, well-ventilated area away from heat or sources of ignition

Store at ambient temperature out of direct sunlight

Empty containers may contain irritating or combustible residue or vapors

KEEP OUT OF REACH OF CHILDREN

SECTION VIII – EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1. Control Parameters

Exposure Limits:	Methanol: ACGIH/OSHA: 200ppm, 260 mg/m3 TWA
WEL: LTEL (8 hour reference period):	200 ppm (266 mg m-3)
STEL (15 min reference period):	250 ppm (333 mg m-3)

WEL – Workplace exposure limit; LTEL - Long-term exposure limit; STEL – Short-term exposure limit

8.2. Exposure Controls

Special Engineering Measures:	None Required
Hand Protection:	Gloves- impermeable (also consider your own risk assessment; i.e. breakthrough times, rates of diffusion and degradation, tasks undertaken)
Eye Protection:	Chemical safety goggles or glasses
Respiratory Protection:	Respiratory protection is not normally required if good ventilation is maintained and exposure guidelines are not exceeded
Other Information:	Eye bath and safety shower; avoid contact with skin and eyes; wash hands before and after breaks and immediately after handling the product; Do not allow material to enter drains/sewers or natural waterways

SECTION IX – PHYSICAL PROPERTIES

9.1. Basic Properties

Physical State:	Liquid
Color:	White, opaque
Odor/Odor Threshold:	Characteristic odor/No data available
pH, 5%, @25°C:	~ 5.0
Melting Point, °C:	Not measured
Solidification Point, °C:	Not measured
Boiling Point, °C:	~ 94
Flash Point, °C:	No flash point- aqueous product (Cleveland Open Cup Method)
Relat. evapor. rate comp to butylacetate:	N/A
Flammability (solid, gas):	N/A
Explosive limits:	Not explosive
Vapor pressure:	Not measured
Relative vapor density at 20C:	Not measured
Relative density:	Not measured
Solubility in Water:	Complete
Log Pow:	No data available
Self-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity, @25°C, cPs:	< 150
Explosive Properties:	Not explosive
Oxidizing Properties:	Not applicable

9.2. Other Properties

Percent Volatiles:	~ 93 (water, < 0.5% methanol)

SECTION X – STABILITY AND REACTIVITY

10.1. Reactivity
Hazardous polymerization will not occur

10.2. Chemical Stability
Stable under normal conditions

10.3. Possibility of hazardous reactions
None under normal conditions

10.4. Conditions to Avoid
None known

10.5. Incompatible Materials

Strong acids, bases; Oxidizing and reducing agents

10.6. Hazardous decomposition products
Decomposition Products: Thermal combustion products may include oxides of carbon, nitrogen, silicon, formaldehyde and chloride compounds

SECTION XI – TOXICOLOGICAL INFORMATION

Acute Toxicity:	Oral LD50 (rat): >100,000 mg/kg
	Inhalation LC50 (male & female rats): > 5.09 mg/L
Irritation:	Product not tested. Classified by GHS for Eye Irritation-Category 2B
Corrosivity:	Not classified
Sensitization:	Not classified
Repeated dose toxicity:	Not classified
Carcinogenicity:	Not classified
Mutagenicity:	Not classified
Reproductive toxicity:	Not classified

SECTION XII – Ecological Information

12.1. Toxicity

Ecology-general:	This product is classified as hazardous to the aquatic environment
Aquatic Toxicity:	Product not tested. Classified by GHS for Hazard to the Aquatic Environment-Acute Category 2, Chronic Category 2

12.2. Persistence and Degradability
No data available

12.3. Bioaccumulative potential
No information available

12.4. Mobility in soil
Accidental spillage may lead to penetration in the soil and groundwater; No information available on soil mobility

12.5. Results of PBT and vPvB assessment
This information is not available

12.6. Other adverse effects
No information available

SECTION XIII – DISPOSAL CONSIDERATIONS

13.1. Waste Disposal Recommendations
Do not allow material to drain into sewers/water supplies; Do not contaminate ponds, waterways or ditches
Use appropriate guidelines to dispose of containers

13.2. Waste Code
Should be assigned by the user

13.3. Additional information
Empty containers should be taken for recycle, recovery or waste in accordance with local regulation

SECTION XIV – TRANSPORTATION INFORMATION

Unit Containers: 55 Gallon Plastic, 5 Gallon Plastic, 1 Gallon Plastic, 1 Quart Plastic

49 CFR-DOT Not Regulated
UN-number: N/A Hazard Class: N/A Packing Group: N/A
UN proper shipping name: N/A

IATA
UN-number: UN3082 Hazard Class: 9 Packing Group: III
Other: Marine Pollutant
UN proper shipping name: UN3082, Environmentally Hazardous Substance, Liquid, n.o.s. (Octadecylaminodimethyl-Trihydroxysilyl Propyl Ammonium Chloride), 9, III, Marine Pollutant

IMDG
UN-number: UN3082 Hazard Class: 9 Packing Group: III
Other: Marine Pollutant
UN proper shipping name: UN3082, Environmentally Hazardous Substance, Liquid, n.o.s. (Octadecylaminodimethyl-Trihydroxysilyl Propyl Ammonium Chloride), 9, III, Marine Pollutant

SECTION XV – REGULATORY INFORMATION

15.2. US Regulations

Inventory Status:	The product is exempt from TSCA, since it is registered under FIFRA
SARA 311/312:	Yes-See Section 2 for GHS Hazard classification
SARA 313:	Methanol (CAS 67-56-1) = 0.5%
California Prop. 65:	This product may contain the following material(s) known to the state of California to cause cancer, birth defects or other reproductive harm: None greater than 1%.

SECTION XVI – OTHER INFORMATION

Changes and/or Additions: Section 2

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Vendor assumes no responsibility for injury to vendee or third person proximately caused if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material
even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in use of the material.

Our products are intended for sale to industrial and commercial customers. We encourage customers to inspect and test our products before use and to satisfy themselves as to suitability for their specific applications.

Warranty - The manufacturer warrants that products sold comply with specifications as represented and will perform satisfactorily if used according to the directions, or the manufacturer will refund or replace any unused portion thereof, for a period of one year from the date of manufacture. The manufacturer does not make any other warranty, or assume responsibility of any kind, expressed or implied regarding the effect or result of the products use; and assumes no responsibility of injury to vendee or third parties proximately caused by the material if reasonable safety procedures are not adhered to.