

Bio-Spear

Nanoshield Solutions, LLC



MATERIAL SAFETY DATA SHEET

I. IDENTIFICATION:

MANUFACTURER PureShield Inc.
..... 1445 Jupiter Park Drive
..... Suite 11
..... Jupiter, FL 33458
..... 561.747.5758
EMERGENCY PHONE NUMBER InfoTrac 800-535-5053 (day/night)
PRODUCT NAME Bio-Spear
CHEMICAL FAMILY Organosilane
EPA Registration # 87583-2
Last Revision Date 7/8/2011

II. PHYSICAL DATA

| | | | |
|----------------------|------------|-------------------------|--------------|
| BOILING POINT | >210°F | SOLUBILITY (WATER)..... | Soluble |
| VAPOR PRESSURE | N/A | ODOR..... | Mild |
| VAPOR DENSITY | N/A | APPEARANCE | Clear liquid |
| % VOLATILES..... | ND | EVAPORATION RATE | (water =1) |
| pH of PRODUCT | approx 5.0 | SPECIFIC GRAVITY | 1.003 |

III. CHEMICAL COMPONENTS

| COMPONENT | C.A.S.# | HAZARD | from% - to% | T.L.V. |
|---|------------|----------|-------------|--------|
| (1) 3-(Trimethoxysilyl) propyldimethyloctadecyl ammonium chloride | 27668-52-6 | Irritant | 5.00 % | None |

IV. FIRE AND EXPLOSION DATA

FLASH POINT (°F)..... N/A
FLAMMABLE LIMITS: (upper) N/A (lower) N/A
EXTINGUISHING MEDIA .. Dry chemicals, foam, carbon dioxide, water spray.
SPECIAL FIRE-FIGHTING PROCEDURES Must be equipped with self contained breathing apparatus.
Cool heated drums with water spray to prevent bursting.
UNUSUAL FIRE AND EXPLOSION HAZARDS... None

V. HEALTH HAZARD DATA

Harmful if swallowed, inhaled or absorbed through the skin.
TLV..... NO ACGIH TLV PUBLISHED PEL..... NO OSHA PEL PUBLISHED
EYES..... Prolonged contact may cause irritation.
SKIN..... Prolonged contact may cause irritation.
INHALATION Harmful if inhaled.
INGESTION.. Harmful if swallowed.
EFFECTS OF OVEREXPOSURE...Not known

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***** FIRST AID *****

EYES: Flush with plenty of water for at least 15 minutes. If irritation persists, get medical attention.

SKIN: Remove clothing if necessary, rinse skin, if irritation persists get medical attention.

INHALATION: Remove to fresh air. If not breathing, Call 911 and then give artificial respiration.

INGESTION: Do not induce vomiting. Call a poison control center or doctor immediately for treatment advice. Have the person sip a glass of water if able to swallow. Do not give anything to an unconscious person.

In all cases call Poison Control Center or Doctor for treatment advice.

VI. REACTIVITY DATA

STABILITY STABLE

CONDITIONS TO AVOID Do not mix with cleaners, do not freeze, and avoid heat.

INCOMPATIBILITY..... Sodium oxidizers

HAZARDOUS DECOMPOSITION PRODUCTS:

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

CONDITIONS TO AVOID:

VII. SPILL OR LEAK PROCEDURES

| | | |
|--|--|---|
| <input checked="" type="checkbox"/> STOP FLOW | <input checked="" type="checkbox"/> AVOID SKIN CONTACT | <input type="checkbox"/> BURY IN REMOTE AREA |
| <input type="checkbox"/> NEUTRALIZE | <input type="checkbox"/> ELIMINATE ALL SOURCES | <input checked="" type="checkbox"/> OBSERVE FEDERAL |
| <input checked="" type="checkbox"/> ABSORB OR SCRAPE | <input type="checkbox"/> OF IGNITION OR FLAME | <input type="checkbox"/> SPILL & WATER |
| <input type="checkbox"/> UP MATERIAL | <input type="checkbox"/> WASH AWAY WITH WATER | <input type="checkbox"/> QUALITY REGULATIONS |
| <input checked="" type="checkbox"/> AVOID INHALATION | <input type="checkbox"/> VACUUM UP | <input type="checkbox"/> USE AS LANDFILL |

DISPOSAL CONSIDERATION

Product/Soil/Water maybe subject to RCRA/OSHA hazardous waste. Landfill solids at permitted sites.

Follow all federal, state and local waste management regulations.. Where permissible, consider discharge to TW, biological treatment, or incineration.

To inactivate product, add anionic surface or detergent in equal amount to the product.

VIII. SPECIAL PROTECTION INFORMATION

RESPIRATORY..... Utilize respiratory equipment in accordance to 29 CFR1910.134 if other protective measures do not control adequately control exposures.

SKIN..... Rubber or plastic gloves

EYES..... To avoid eye contact wear goggles

VENTILATION..... ☒ General Ventilation ☐ Local Exhaust

OTHER PROTECTION Consider long sleeves, long pants, and apron. Eye wash and safety shower should be in area of use.

IX. SPECIAL PRECAUTION

No special precautions beyond routine prudent safe handling of chemical substances are necessary.

X. REGULATORY INFORMATION

DOT SHIPPING NAME..... NOT REGULATED BY DOT

HAZARD CLASS / # NONE / PACKING GROUP:

UN/NA NONE REPORTABLE QTY /

S.A.R.A. See Section III

T.S.C.A..... All chemicals are listed on the TSCA inventory

| | |
|-------------------------------------|----------------------------|
| O.S.H.A. HAZARD CLASS: HEALTH.....2 | REACTIVITY.....1 |
| FLAMMABILITY0 | PERSONAL PROTECTIONB |

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XI. MISCELLANEOUS

COMPANY CONTACT: Dan Hill

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