



# SAFETY DATA SHEET

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Revised: 7/25/2020

**PRODUCT NAME:** Clear Sealant

**PRODUCT CODES:** BDT-41

**Supplier:** Biodefense Technologies, Inc.

7355 Ga. Highway 85,

Waverly Hall, Georgia USA

**CHEMICAL NAME:** Silazane Mixture

**CHEMICAL FAMILY:** Polymeric Resin-Solvent Blend

**CHEMICAL FORMULA:** Proprietary Blend

**PRODUCT USE:** Clear Sealant & dry film lube for metal surfaces

## SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

**INGREDIENT:** Ingredients that are identified as toxic via the SARA guidelines are listed below per section 313 of the 40CFR372

<u>CAS NO.</u>	<u>CHEMICAL NAME</u>	<u>CONTENT wt%</u>	<u>Lower</u>	<u>Upper</u>
9006-65-9	Polysilazane mixture		18%	30%
54-88-5	Tert-Butyl Acetate		25%	40%
64741-66-8	Petroleum Solvent		05%	12%

**SECTION 2 NOTES:** Ingredients not listed are not listed in the SARA classification and deem proprietary. 15% 40%

## SECTION 3: HAZARDS IDENTIFICATION

**Hazards classifications**

**HIMS rating (as packaged)**

**LABEL STANDARD :**

**EMERGENCY OVERVIEW: Single Word:** Warning

**ROUTES OF ENTRY:** eyes, skin, inhalation, ingestion

**POTENTIAL HEALTH EFFECTS**

**ACUTE HEALTH HAZARDS:**

**EYES:** May cause irritation

**SKIN:** May cause skin irritation through absorption

**INGESTION:** Harmful if swallowed

**INHALATION:** May cause respiratory tract irritation. At higher vapor concentrations, inhalation may affect central nervous system

**CHRONIC HEALTH HAZARDS:** No known application information at this time.

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:** No known application information at this time

**CARCINOGENICITY**

**OSHA:** N/A

**ACGIH:** N/A

**NTP:** N/A

**IARC:** N/A

**OTHER:** There are no known carcinogenic ingredients present at over 0.1% in this material

**SECTION 3 NOTES:** Above information based off of standard industrial use of this product. Abnormal use and contact may result in increased damage and irritation to all affected areas.

Health: -----1	HEALTH 1
Fire: -----3	FLAMMABILITY 3
Reactivity --0	REACTIVITY 0
PPH: -----H	PERSONAL PROTECTION H

## SECTION 4: FIRST AID MEASURES

**EYES:** Immediately flush with water for at least 15 minutes. If irritation persists, seek medical attention

**SKIN:** Wash contact area thoroughly with soap and water. Washing clothing separately from other garments. If irritation persists, stop using garments and seek medical advice.

**INGESTION:** DO NOT induce vomiting. Seek immediate medical attention.

**INHALATION:** Remove to fresh air. If breathing is difficult, have trained personnel administer oxygen and seek immediate medical attention.

**NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:** Administration of absorbents may be of value.

**SECTION 4 NOTES:** Always wear protective eyewear, gloves and clothing when handling any chemical.

## SECTION 5: FIRE-FIGHTING MEASURES

**FLAMMABLE LIMITS IN AIR:** Not determined at this time.

**FLASH POINT:** F: 100° C: 38°

**METHOD USED:** Closed Cup

**AUTOIGNITION TEMPERATURE:** F: 590° C: 310°

**EXTINGUISHING MEDIA:** Carbon dioxide, dry chemical powder, extinguishing form media

**SPECIAL FIRE FIGHTING PROCEDURES:** Evacuate all unnecessary personnel. Shut down all electrical devices in exposed area. Use water to keep adjacent containers cool to prevent pressure build-up. Wear self-contained breathing apparatus and full protective clothing.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Container explosion may occur under fire conditions. Toxic fumes from container may be emitted under fire conditions.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Chlorine containing gas, Fluorine containing gas, may be discharged upon decomposition.

**SECTION 5 NOTES:** Avoid static charge build-up. Static charge could ignite heavy vapors.



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### SECTION 6: ACCIDENTAL RELEASE MEASURES

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**ACCIDENTAL RELEASE MEASURES:** Determine to evacuate or isolate the area according to your local emergency plan. For large spills, supply emergency diking to contain materials. After removal of bulk material, the use of an absorbent is needed for final clean up. Remove waste materials to a location per your local waste management regulations, state or Federal regulations.

**SECTION 6 NOTES:** Always wear personal protective equipment when handling all types of chemicals and waste products. Refer to section 8 for Personal protective equipment.

### SECTION 7: HANDLING AND STORAGE

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**HANDLING AND STORAGE:** Store in cool dry location with adequate ventilation. Do not store in direct sunlight. Keep containers tightly sealed when not in use. Avoid leaving open containers during use.

Store in temperatures between 55°F and 80°F.

**OTHER PRECAUTIONS:** Always wear protection clothing when handling all chemicals. See section 8 for details.

**SECTION 7 NOTES:** Do not smoke when handling materials. Keep away from moisture and standing water.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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**ENGINEERING CONTROLS:** Local and general ventilation is recommended.

**RESPIRATORY PROTECTION:** Use respiratory protection unless adequate ventilation is in place and has been assessed to provide proper air movement for recommended exposure. Follow OSHA requirements for respirator regulations 29CFR 1910.134.

**EYE PROTECTION:** Always wear protective eyewear or goggles. Recommended use of full face respirator or large volume handling and spills.

**SKIN PROTECTION:** Chemical protective gloves is always recommended. Wash exposed skin immediately if contact with chemical occurs.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** The use of chemical resistant aprons, shoe covers and face shields is recommended for any handling of chemicals.

**WORK HYGIENIC PRACTICES:** The use of proper cleaning soaps and solutions for all body parts is recommended. Eye wash stations and showers in accordance with OSHA and local safety regulations is advised and in close proximity.

**EXPOSURE GUIDELINES:** Refer to sections 4, 7, and 8 for contact and exposure recommendations.

**SECTION 8 NOTES:** Note, all of these precautions are based off of room temperature handling. Elevated temperatures may increase the need for extra care in handling of materials.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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**APPEARANCE:** Clear

**ODOR:** Strong solvent to ammonia / naphthalenic

**PHYSICAL STATE:** Liquid

**pH AS SUPPLIED:** 0.0

**pH (Other):** N/A

**BOILING POINT:** F: 282.2° C: 139°

**MELTING POINT:** F: N/A C: N/A

**FREEZING POINT:** F: -32° C: -36°

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (con't)

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**SPECIFIC GRAVITY (H<sub>2</sub>O = 1):** 0.889 @ F: 68° C: 20°

**EVAPORATION RATE:** N/A BASIS (=1):

**SOLUBILITY IN WATER:** Insoluble

**PERCENT SOLIDS BY WEIGHT:** <38

**VOLATILE ORGANIC COMPOUNDS AS APPLIED (VOC):**

(560g/L of exempt compounds / per 40CFR51.100(s).)

**Total VOC content:** 0.0g/L

**MOLECULAR WEIGHT:** <55ps

**VISCOSITY:** 12-17 seconds (#2 Zahn Cup) @ F: 77° C: 25°

**SECTION 9 NOTES:**

### SECTION 10: STABILITY AND REACTIVITY

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**STABILITY:** STABLE X UNSTABLE

**INCOMPATIBILITY (MATERIAL TO AVOID):** Oxidizers, Isocyanates, water, protic solvents, mineral acids and alkalies.

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** Chlorine containing gasses, Fluorine containing gasses, Carbon Monoxide, Carbon Dioxide, and Silicon Dioxide.

**HAZARDOUS POLYMERIZATION:** Will not occur

**CONDITIONS TO AVOID (POLYMERIZATION):** N/A

**SECTION 10 NOTES:** The above criteria may not be all the materials that affect stability, but per testing, the above information is true to the best of our knowledge.

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**SECTION 11: TOXICOLOGICAL INFORMATION**

**TOXICOLOGICAL INFORMATION:** Not listed as carcinogen by NTP (National Toxicology Program); not regulated as carcinogen by OSHA (Occupational Safety and Health Administration); not evaluated by IARC (International Agency for Research on Cancer)

**SECTION 11 NOTES:** No human studies have been conducted with this material. The use of recommended protective equipment should reduce or prevent any adverse effects.

**SECTION 12: ECOLOGICAL INFORMATION**

**ECOLOGICAL INFORMATION:** This material may be hazardous to aquatic organisms. Avoid release to surface waters and waste treatment systems.

**SECTION 12 NOTES:** None

**SECTION 13: DISPOSAL CONSIDERATIONS**

**WASTE DISPOSAL METHOD:** Do not mix this product with aqueous or other protic waste streams. Incinerations of combustible waste materials in a permitted facility in accordance with the local, state, and federal regulations is the recommended disposal method.

**RCRA HAZARD CLASS:** I / Ignitable

**SECTION 13 NOTES:** Local and state regulations may exceed federal standards. Always consult your local waste authority for proper disposal requirements.

**SECTION 14: TRANSPORT INFORMATION**

**U.S. DEPARTMENT OF TRANSPORTATION**

**PROPER SHIPPING NAME:** Paint Related Materials

**HAZARD CLASS:** 3

**UN NUMBER:** 1263

**PACKING GROUP:** III

**LABEL STATEMENT:** Flammable liquid



**WATER TRANSPORTATION**

**PROPER SHIPPING NAME:** Paint Related Materials

**HAZARD CLASS:** 3

**UN NUMBER:** 1263

**PACKING GROUP:** III

**EmS No.:** 30 S-E, F-E

**LABEL STATEMENTS:** Flammable Liquid



**AIR TRANSPORTATION**

**PROPER SHIPPING NAME:** Paint Related Materials

**HAZARD CLASS:** 3

**UN NUMBER:** 1263

**PACKING GROUP:** III

**LABEL STATEMENTS:** Flammable Liquid



**CONSUMER COMMODITY**

**ID NUMBER:** 8000

**HAZARD CLASS:** 9

**LABEL STATEMENT:**

**LABEL ORM-D Domestic:**



**SECTION 14 NOTES:** Labels to match on both SDS and Packaging as required.

**SECTION 15: REGULATORY INFORMATION**

**U.S. FEDERAL REGULATIONS TSCA (TOXIC SUBSTANCE CONTROL ACT):** All chemical substances in this material are on or exempted from the listing on the TSCA Inventory of Chemical Substances.

**CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT):** None

**SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):** None

**311/312 HAZARD CATEGORIES:** Acute: NO Chronic: NO Fire: YES Pressure: NO Reactive: NO

**313 REPORTABLE INGREDIENTS:** Non present or none present in regulated quantities.

**STATE REGULATIONS:** Exempt list per 40CFR51.100(s).

**INTERNATIONAL REGULATIONS:** Subject to specific country, province, state or district regulations.

**SECTION 15 NOTES:** None

**SECTION 16: OTHER INFORMATION**

**OTHER INFORMATION**

**PREPARATION INFORMATION:** This data offered in good faith as typical values and as product specifications.

**DISCLAIMER:** No warranty, either expressed or implied is hereby made. The recommended industrial safety and care practices for safe handling are believed to be generally applicable. Each user should review these recommendation in the specific context of the intended use and determine the suitability of this product for their application.