

SAFETY DATA SHEET

PRODUCT: BLASTEX

1. IDENTIFICATION

Product Name: Blastex

Recommended Use: Industrial and Professional Applications. Specialty protective coating / surface treatment.

Restrictions on Use: None known. Use only as directed.

Emergency Telephone: Genesis Chem Solutions Tampa, FL Chemtrec: 1-800-424-9300 (24 hours)

2. HAZARD(S) IDENTIFICATION

GHS Classification: Flammable Liquids - Category 2
Acute Toxicity (Oral/Dermal/Inhalation) - Category 2
Skin Corrosion/Irritation - Category 2
Serious Eye Damage/Eye Irritation - Category 2A
Specific Target Organ Toxicity (Single Exposure) - Category 2 (Central Nervous System)

Signal Word: **WARNING**

Hazard Statements: H226: Flammable liquid and vapor.
H302 + H312 + H332: Harmful if swallowed, in contact with skin or if inhaled.
H315: Causes skin irritation.
H319: Causes serious eye irritation.
H336: May cause drowsiness or dizziness.

Precautionary Statements: **Prevention:**
P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261: Avoid breathing dust/fume/gas/mist/vapors/spray.
P280: Wear protective gloves/clothing and eye/face protection.
Response:
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P312: Call a POISON CENTER or doctor if you feel unwell.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Common Name / Synonyms	CAS Number	Weight %
Silicon Dioxide	Silica, Amorphous	7631-86-9	15 - 20 %
2-Butoxyethanol	Ethylene glycol monobutyl ether	111-76-2	5 %
Polydimethylsiloxane	Silicone fluid / Dimethicone	63148-62-9	5 - 10 %
Dicocoalkyldimethyl ammonium chloride	Quaternary ammonium compounds	61789-77-3	2.5 - 10 %
Propan-2-ol	Isopropyl Alcohol (IPA)	67-63-0	2 - 5 %

4. FIRST-AID MEASURES

- **Inhalation:** Move to fresh air. If breathing is difficult, give oxygen. Get medical attention if symptoms persist.
- **Skin Contact:** Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. If skin irritation persists, call a physician.
- **Eye Contact:** Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.
- **Ingestion:** Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician immediately.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:	Water spray, alcohol-resistant foam, dry chemical, or carbon dioxide (CO ₂).
Unsuitable Extinguishing Media:	High-volume water jet (may scatter and spread fire).
Specific Hazards:	Flammable. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Hazardous decomposition products include oxides of carbon, silicon oxides, nitrogen oxides, and hydrogen chloride gas.
Protective Equipment:	As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

- **Personal Precautions:** Evacuate personnel to safe areas. Use personal protective equipment. Remove all sources of ignition. Take precautionary measures against static discharges. Avoid contact with skin, eyes, and clothing.
- **Environmental Precautions:** Prevent further leakage or spillage if safe to do so. Prevent product from entering drains, sewers, or watercourses.
- **Clean-up Methods:** Soak up with inert absorbent material (e.g., sand, silica gel, acid binder, universal binder). Use clean non-sparking tools to collect absorbed material. Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE

- **Handling:** Wear personal protective equipment. Avoid contact with skin, eyes, and clothing. Keep away from open flames, hot surfaces, and sources of ignition. Take precautionary measures against static discharges. Use only in an area equipped with an explosion-proof exhaust fan. Do not breathe vapors or spray mist.
- **Storage:** Keep containers tightly closed in a dry, cool, and well-ventilated place. Keep away from heat, sparks, flame, and other sources of ignition. Keep away from incompatible materials (strong oxidizing agents, strong acids).

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Component	OSHA PEL	ACGIH TLV	NIOSH REL
Silicon Dioxide	20 mppcf (TWA)	10 mg/m ³ (TWA, Inhalable)	6 mg/m ³ (TWA)
2-Butoxyethanol	50 ppm (TWA) [Skin]	20 ppm (TWA)	5 ppm (TWA) [Skin]
Propan-2-ol	400 ppm (TWA)	200 ppm (TWA), 400 ppm (STEL)	400 ppm (TWA), 500 ppm (STEL)
Polydimethylsiloxane	None Established	None Established	None Established
Dicocoalkyldimethyl ammonium chloride	None Established	None Established	None Established

Engineering Controls: Ensure adequate ventilation, especially in confined areas. Use explosion-proof electrical/ventilating/lighting equipment. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal Protective Equipment (PPE):

- Eye/Face:** Tightly fitting safety goggles or face shield.
- Skin/Body:** Wear protective nitrile or butyl rubber gloves and protective clothing.
- Respiratory:** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Liquid (may be viscous or cloudy)	Odor:	Alcohol-like / Characteristic
pH:	6.0 - 8.0 (estimated)	Boiling Point:	Not determined
Flash Point:	35°C - 45°C (estimated standard)	Evaporation Rate:	Not determined
Flammability (solid, gas):	Not applicable	Explosive Limits:	Not determined
Vapor Pressure:	Not determined	Vapor Density:	Heavier than air
Relative Density:	~ 0.95 - 1.05 g/cm ³	Solubility:	Partially miscible in water

10. STABILITY AND REACTIVITY

- **Reactivity:** Stable under normal conditions.
- **Chemical Stability:** Stable under recommended storage conditions.
- **Possibility of Hazardous Reactions:** None under normal processing. Vapors may form explosive mixture with air.
- **Conditions to Avoid:** Heat, flames, sparks, static discharge, and direct sunlight.
- **Incompatible Materials:** Strong oxidizing agents, strong acids, strong bases, halogens.
- **Hazardous Decomposition Products:** Carbon oxides, Silicon oxides, Nitrogen oxides (NO_x), Hydrogen chloride gas.

11. TOXICOLOGICAL INFORMATION

Routes of Exposure:	Inhalation, Skin contact, Eye contact, Ingestion.
Acute Toxicity:	2-Butoxyethanol: Oral LD50 (Rat): 470 mg/kg; Dermal LD50 (Rabbit): 220 mg/kg; Inhalation LC50 (Rat): 450 ppm/4h. Propan-2-ol: Oral LD50 (Rat): 5,045 mg/kg; Dermal LD50 (Rabbit): 12,800 mg/kg. Dicocoalkyldimethyl ammonium chloride: Severe irritant/corrosive properties to tissue.
Skin/Eye Effects:	Causes skin irritation. Causes serious eye irritation. Quaternary ammonium components may cause localized chemical tissue damage if contact is prolonged.
Carcinogenicity:	None of the components at concentrations $\geq 0.1\%$ are listed as standard carcinogens by IARC, NTP, or OSHA. (Silicon dioxide is amorphous and not classified as a lung carcinogen).

12. ECOLOGICAL INFORMATION

Ecotoxicity: Toxic to aquatic life with long-lasting effects due to the cationic surfactant component (Dicocoalkyldimethyl ammonium chloride). 2-Butoxyethanol and Propan-2-ol exhibit low aquatic toxicity profile but high volatility/biodegradability.

Persistence & Degradability: Organic components are expected to be biodegradable. Silicon dioxide and silicones persist but are inert in soil/sediment environment.

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with local, state, and federal regulations. Do not dispose of waste into sewer system. Do not re-use empty containers. Contaminated packaging must be treated in the same manner as the product itself. RCRA Hazardous Waste Code: D001 (Ignitable) if discarded in its raw commercial form.

14. TRANSPORT INFORMATION

UN Number:	UN1993	Proper Shipping Name:	Flammable Liquid, N.O.S. (contains Isopropyl Alcohol, 2-Butoxyethanol)
Hazard Class:	3	Packing Group:	III
Environmental Hazards:	Marine Pollutant (Dicocoalkyldimethyl ammonium chloride)		

15. REGULATORY INFORMATION

- **TSCA:** All components are listed on or exempt from the TSCA Inventory.
- **SARA 313:** Contains 2-Butoxyethanol (Glycol ethers category) which is subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act.
- **California Proposition 65:** This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

NFPA 704 Rating	Value
Health Hazard	2
Flammability	2
Instability	0
Special Hazards	None

Disclaimer: 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 a guidance for safe handling, use, processing, storage, transportation, disposal and release.