

# MATERIAL SAFETY DATA SHEET

EMERGENCY PHONE: 1-800-346-0132  
CHEMTREC PHONE: 1-800-255-3924

A196 BLO-FREE

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**NFPA RATING:**

HEALTH: 1      FLAMMABILITY: 0      REACTIVITY: 1      SPECIAL:

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**HMIS RATING:**

HEALTH: 1      FLAMMABILITY: 0      REACTIVITY: 1      PERSONAL PROTECTION: B

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**SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

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PRODUCT NAME: BLO-FREE  
PRODUCT CODES: A196  
PRODUCT USE: Non-Flammable, High Performance Duster and Freeze Spray  
MANUFACTURER: Chemax Corporation  
ADDRESS: P O Box 7453  
Beaumont TX 77726-7453  
DATE PREPARED: 10/12/09  
PREPARED BY: R Hinshaw

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**SECTION 2: COMPOSITION AND INFORMATION ON INGREDIENTS**

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<u>INGREDIENT NAME:</u>	<u>CAS NO.</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>% WT</u>	<u>SARA 313</u>
1,1,1,2-TETRAFLUOROETHANE	811-97-2	N/A	N/A		

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**SECTION 3: HAZARDS IDENTIFICATION**

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EMERGENCY OVERVIEW: Keep out of reach of children.

ROUTES OF ENTRY: Eyes. Skin. Inhalation.

**POTENTIAL HEALTH EFFECTS:**

EYES: May cause irritation.

SKIN: Liquid contact can cause frostbite.

INGESTION: N/A

INHALATION: High concentrations of vapor is harmful and may cause heart irregularities, unconsciousness or death.  
Excessive inhalation of vapors reduces oxygen available for breathing.

CHRONIC HEALTH HAZARDS: None known.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None known.

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## SECTION 4: FIRST AID MEASURES

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**EYES:** Flush with large amounts of running water for 15 minutes. If irritation persists, seek medical attention.

**SKIN:** Seek medical attention.

**INGESTION:** N/A

**INHALATION:** Remove to fresh air. Resuscitate if necessary. Seek medical attention.

**NOTES TO PHYSICIAN OR FIRST AID PROVIDER:**

**SECTION 4 NOTES:**

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## SECTION 5: FIRE-FIGHTING MEASURES

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**FLAMMABLE LIMITS IN AIR (% by volume):** UPPER: N/A LOWER: N/A

**FLASH POINT (Method Used: TCC):** None

**FLAMMABILITY (as per USA Flame Projection Test):**

**AUTO IGNITION TEMPERATURE:** N/A

**EXTINGUISHING MEDIA:** N/A

**SPECIAL FIRE FIGHTING PROCEDURES:** Wear self-contained breathing apparatus. Cool cans with water.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Do not expose to temperatures above 120 F or container may rupture.

**SECTION 5 NOTES:**

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

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**ACCIDENTAL RELEASE MEASURES:** Ventilate area, especially low places where heavy vapors might collect.

**SECTION 6 NOTES:** Dispose of residue in accordance with all federal, state and local regulations.

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## SECTION 7: HANDLING AND STORAGE

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**HANDLING AND STORAGE:** Store in a cool, dry area. Do not use near heat or flame. Do not store at temperatures above 120 F.

**OTHER PRECAUTIONS:** Keep out of reach of children. Avoid food contamination.

**SECTION 7 NOTES:**

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## SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

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### ENGINEERING CONTROLS:

VENTILATION : Local exhaust is adequate.

RESPIRATORY PROTECTION: Use only in well-ventilated areas.

EYE PROTECTION: Safety goggles.

SKIN PROTECTION: Protective gloves recommended.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: None.

WORK HYGIENIC PRACTICES: Wash hands thoroughly after use. Keep away from food and drink.  
Handle in accordance with good industrial hygiene and safety practices.

### EXPOSURE GUIDELINES:

### SECTION 8 NOTES:

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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APPEARANCE: Colorless liquefied gas

ODOR: Slight ethereal odor

### PHYSICAL STATE:

pH: N/A

BOILING POINT: - 15 F

MELTING POINT: N/A

VAPOR PRESSURE (mm Hg): 96 psi

VAPOR DENSITY (AIR = 1): 3.6 @ 77 F

SPECIFIC GRAVITY (H<sub>2</sub>O = 1): 1.21 @ 77 F

EVAPORATION RATE (Butyl Acetate = 1): N/A

SOLUBILITY IN WATER: 0.15 %

TOTAL VOC (Volatile Organic Compounds) (% by weight):

TOTAL VOC (Volatile Organic Compounds) (grams / Liter):

PERCENT VOLATILE (by WT / by VOL):

### SECTION 9 NOTES:

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## SECTION 10: STABILITY AND REACTIVITY

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STABILITY: Stable.

CONDITIONS TO AVOID: Temperatures above 120 F.

INCOMPATIBILITY (Material to Avoid): Alkali or alkaline earth metals. Powdered Al, Zn, Be, etc.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Halogen acids by thermal decomposition.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 10 NOTES:

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## SECTION 11: TOXICOLOGICAL INFORMATION

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TOXICOLOGICAL INFORMATION: No specific toxicological data is available for this product.

SECTION 11 NOTES: Please refer to Section 3 for information on potential health effects.

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## SECTION 12: ECOLOGICAL INFORMATION

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ECOLOGICAL INFORMATION: No specific ecological data is available for this product.

SECTION 12 NOTES: Please refer to Section 6 for information regarding spills and Section 15 for regulatory information.

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## SECTION 13: DISPOSAL CONSIDERATIONS

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WASTE DISPOSAL METHOD: Dispose of residue in accordance with all federal, state and local regulations.  
Do not puncture or incinerate container. Wrap container and place in trash collection.

RCRA HAZARD CLASS:

SECTION 13 NOTES: Aerosol cans when vented to atmospheric pressure through normal use, pose no disposal hazard.

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## SECTION 14: TRANSPORT INFORMATION

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### U.S. DEPARTMENT OF TRANSPORTATION

PROPER SHIPPING NAME: Consumer Commodity, ORM-D  
HAZARD CLASS: 2.2  
UNID NUMBER: 3159  
PACKING GROUP: No packing group  
TYPE: Gas / Non-Flammable

### WATER TRANSPORTATION

PROPER SHIPPING NAME: Consumer Commodity, ORM-D  
HAZARD CLASS: 2.2  
UNID NUMBER: 3159  
PACKING GROUP: No packing group  
TYPE: Gas / Non-Flammable

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## SECTION 15: REGULATORY INFORMATION

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### U.S. FEDERAL REGULATIONS:

TSCA (Toxic Substance Control Act): All chemicals are listed.

CERCLA (Comprehensive Response Compensation and Liability Act): None

SARA TITLE III EPCRA (Superfund Amendments and Reauthorization Act):

Section 311 – 312: Hazardous Chemical Inventory: None

Section 313: Toxic Chemical Release Inventory: None

CALIFORNIA PROPOSITION 65:

Known to the State of California to cause birth defects or other reproductive harm: None

Known to the State of California to cause cancer: None

### CARCINOGEN OR POTENTIAL CARCINOGEN:

OSHA: No                      ACGIH: No                      NTP: No                      IARC: No

### STATE REGULATIONS:

### SECTION 15 NOTES:

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## SECTION 16: OTHER INFORMATION

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PREPARATION INFORMATION: R Hinshaw

DISCLAIMER: Information provided in this MSDS is correct to the best of our knowledge, information and belief at publication date.