

# Material Safety Data Sheets

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## SECTION I — PRODUCT

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### B3C Fuel Solutions LLC

PRODUCT NAME: **Ethanol Shield**: CONFIDENTIAL

DATE OF PREPARATION: 01/02/2012

REPLACES: 2/23/2010

HMIS RATING:

HEALTH 2

FLAMMABILITY : 2

REACTIVITY: 0

**EMERGENCY PHONE NUMBER: INFOTRAC (800) 535-5053**

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## SECTION II — HAZARDOUS INGREDIENTS

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PRODUCT NAME CAS # VAPOR PRESSURE TLV UNITS (mm Hg)

CHEMICAL NAME PERCENT PEL UNITS

- CONFIDENTIAL-

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## SECTION III — PHYSICAL DATA

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BOILING RANGE: 315 - 387 DEG F

VAPOR DENSITY (AIR=1): 4.1

EVAPORATION RATE (Butyl Acetate=1): 0.8

PERCENT VOLATILE BY VOLUME: 090%

WEIGHT/GALLON: 7.15LBS/GAL

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## SECTION IV — FIRE AND EXPLOSION HAZARD DATA

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HAZARD CLASSIFICATION OSHA: COMBUSTIBLE LIQUID—CLASS III

FLASH POINT (TCC): >141 DEG F

LOWER EXPLOSION LIMIT % BY VOLUME (IN AIR): >2.3

EXTINGUISHING MEDIA: Use dry chemical, carbon dioxide, halon, or foam to extinguish flames

SPECIAL FIREFIGHTING PROCEDURES: Use self-contained breathing apparatus. Wear full protective clothing. Use water spray to cool fire-exposed containers and structures. A solid stream of water

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## SECTION V — HEALTH HAZARD DATA

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EFFECTS OF OVEREXPOSURE

INGESTION: Nausea. Vomiting. Headache. Irritation of mouth and throat.

Irritation of gastrointestinal tract.

SKIN ABSORPTION: Irritation.

INHALATION: Headache. Dizziness. Drowsiness. Anesthesia. Irritation.

Unconsciousness. Central nervous system depression. Death.

SKIN CONTACT: Severe irritation. Dermatitis with prolonged or repeated exposure. Edema.

EYE CONTACT: Severe irritation.

CHRONIC EFFECTS OF OVEREXPOSURE: None currently known.

OTHER HEALTH HAZARDS: None currently known.

PRIMARY ROUTE(S) OF ENTRY: Skin absorption. Inhalation. Eye contact.

EMERGENCY AND FIRST AID PROCEDURES

INGESTION: Do not induce vomiting. Call a physician. Never give anything by mouth to an unconscious person.

SKIN: Immediately wash skin with soap and plenty of water. Remove and wash contaminated clothing promptly.

INHALATION: If inhaled, remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth.

If breathing is difficult, give oxygen. Call a physician.

EYES: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

NOTES TO PHYSICIAN: None.

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**SECTION VI — REACTIVITY DATA**  
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STABILITY: Stable.  
CONDITIONS TO AVOID: None.  
INCOMPATIBILITY: Strong oxidizing agents.  
HAZARDOUS DECOMPOSITION PRODUCTS: Aldehydes. Acids. Ketones.  
HAZARDOUS POLYMERIZATION: Will not occur.  
CONDITIONS TO AVOID: None.

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**SECTION VII — SPILL OR LEAK PROCEDURES**  
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STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Contact local authorities. Extinguish and do not turn on any ignition source until area is determined to be free from explosion or fire hazards. Collect large spills for disposal. Soak up with sawdust, sand, oil dry, or other absorbent material.  
WASTE DISPOSAL: Incineration in accordance with all federal, state, and local regulations.  
PRODUCT # 5150 PAGE 2

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**SECTION VIII — SAFE HANDLING AND USE INFORMATION**  
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RESPIRATORY PROTECTION: Use an appropriate NIOSH/MSHA approved respirator following manufacturer's recommendations.  
VENTILATION: General (mechanical) room ventilation to maintain vapor levels below TLV is expected to be satisfactory. Special, local ventilation is needed at points where vapors or mists are expected to escape to the workplace air.  
PROTECTIVE GLOVES: Consult the glove manufacturer for the most appropriate glove Material.  
EYE PROTECTION: Chemical safety goggles.  
OTHER PROTECTIVE EQUIPMENT: Eye bath and safety shower. Wear protective clothing to prevent repeated or prolonged contact.

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**SECTION IX — SPECIAL PRECAUTIONS**  
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PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: WARNING! Causes eye and skin irritation.  
Combustible: Avoid contact with eyes, skin, and clothing. Avoid breathing vapor or mist. Use with adequate ventilation. Keep away from heat and flame. Wash thoroughly after handling. Keep container closed. Avoid prolonged or repeated contact with skin. Store in cool, dry, ventilated area. Equipment and containers should be bonded and grounded when transferring or using material. Empty containers should not be exposed to fire, sparks, or flame, as residual vapors may be explosive. Since emptied packages retain product residue, follow label warnings even after package is emptied.  
OTHER PRECAUTIONS: This product has a low solubility in water and will float on the surface. Large spills should not be allowed to drain into natural waterways. Store materials wetted with this product (e.g. rags, paper, insulation, clay, etc.) in approved safety container designed for that purpose. Dispose of as quickly as possible. Contact lenses should not be worn.  
Section 313 Supplier Notification  
This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act Of 1986 and Of 40 CFR 372:  
AS# Chemical Name Percent by Weight  
Ethanol Shield Bio Catalyst Mix.....Trade Secret

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**SECTION X TRANSPORTATION INFORMATION**  
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U.S. Department of Transportation Classification (49 CFR)  
Hazard Class: 3 (Combustible Liquid)  
UN Number: 1993  
Packaging Group: III

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**SECTION IX REGULATORY INFORMATION**  
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OSHA Hazard Communication Standard: When used for its intended purposes, this material is not classified as hazardous.

This information must be included in all MSDS sheets that are copied and distributed for this material. The information in this data sheet is believed to be accurate. However, each purchaser should make its own test to determine the suitability of the product for its purposes. Manufacture MAKES NO WARRANTY, EXPRESS OR IMPLIED, WITH RESPECT TO THE PRODUCT and assumes no responsibility for any risk or liability arising from the use of the information or the product. Statements about the product should not be construed as recommendations to use the product.