

## Ethanol 95 Bitrexed

### SECTION 1. IDENTIFICATION

**Product Identifier** Ethanol 95 Bitrexed  
**Other Means of Identification** Ethyl Alcohol (95%)  
**Manufacturer** Contech Enterprises Inc., 115 - 19 Dallas Road, Victoria, BC, V8V 5A6, (604) 940-9944  
**Emergency Phone No.** Canutec, (613) 996-6666  
 INFO TRAC, 800-535-5053  
**Date of Preparation** August 05, 2014

### SECTION 2. HAZARDS IDENTIFICATION

**GHS Classification**

Flammable liquid - Category 2; Serious eye damage/eye irritation - Category 2A; Carcinogenicity - Category 1A; Toxic to reproduction - Category 2

**GHS Label Elements**



Danger

Hazard Statement(s):

Highly flammable liquid and vapour.

Suspected of damaging the unborn child.

Prevention:

Keep away from heat, sparks, open flames, and hot surfaces. – No smoking.

Wear protective gloves/protective clothing/eye protection/face protection.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	%	Other Identifiers
Ethanol	64-17-5		
Ammonium, benzyldiethyl((2, 6-xyllylcarbamoyl)methyl)-, benzoate	3734-33-6		Denatonium Benzoate

### SECTION 4. FIRST-AID MEASURES

**First-aid Measures**

**Inhalation**

Remove source of exposure or move to fresh air. Get medical advice/attention if you feel unwell or are concerned.

**Skin Contact**

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Take off contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Immediately wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 15-20 minutes.

#### **Eye Contact**

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. If eye irritation persists, get medical advice/attention.

#### **Ingestion**

Never give anything by mouth if victim is rapidly losing consciousness, or is unconscious or convulsing. Do not induce vomiting. Rinse mouth with water. Get medical advice/attention if you feel unwell or are concerned.

## **SECTION 5. FIRE-FIGHTING MEASURES**

### **Suitable Extinguishing Media**

Carbon dioxide, dry chemical powder, appropriate foam, water spray or fog.

### **Specific Hazards Arising from the Chemical**

Extremely flammable liquid and vapour. Can ignite at room temperature. Releases vapour that can form explosive mixture with air.

In a fire, the following hazardous materials may be generated: carbon monoxide, carbon dioxide.

### **Special Protective Equipment and Precautions for Fire-fighters**

Fire-fighters may enter the area if positive pressure SCBA and full Bunker Gear is worn.

## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

### **Personal Precautions, Protective Equipment, and Emergency Procedures**

Evacuate the area immediately. Isolate the hazard area. Keep out unnecessary and unprotected personnel. Increase ventilation to area or move leaking container to a well-ventilated and secure area. Use the personal protective equipment recommended in Section 8 of this safety data sheet.

### **Environmental Precautions**

It is good practice to prevent releases into the environment.

### **Methods and Materials for Containment and Cleaning Up**

Contain and soak up spill with absorbent that does not react with spilled product.

## **SECTION 7. HANDLING AND STORAGE**

### **Precautions for Safe Handling**

It is good practice to: avoid breathing product; avoid skin and eye contact and wash hands after handling. Only use where there is adequate ventilation. Avoid ignition sources.

### **Conditions for Safe Storage**

Store in an area that is: cool, dry, out of direct sunlight and away from heat and ignition sources.

## **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **Control Parameters**

Chemical Name	ACGIH TLV®		OSHA PEL		AIHA WEEL	
	TWA	STEL	TWA	Ceiling	8-hr TWA	TWA
Ethanol		1000 ppm A3	1000 ppm			

Consult local authorities for provincial exposure limits. (Ammonium, benzyldiethyl((2,6-xylylcarbamoyl)methyl)-, benzoate)

### **Appropriate Engineering Controls**

Use local exhaust ventilation, if general ventilation is not adequate to control amount in the air. Provide eyewash and safety shower if contact or splash hazard exists.

### **Individual Protection Measures**

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**Eye/Face Protection**

Wear chemical safety goggles and face shield when contact is possible.

**Skin Protection**

Wear chemical protective clothing e.g. gloves, aprons, boots.

**Respiratory Protection**

Not usually required when working with small quantities. For non-routine or emergency situations: wear a NIOSH approved particulate respiratory equipped with an N95, R95, or P95 filter.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES****Basic Physical and Chemical Properties**

<b>Appearance</b>	Clear colourless liquid.
<b>Odour</b>	Alcoholic
<b>pH</b>	Not available
<b>Melting Point/Freezing Point</b>	Not available (melting); -117 °C (-179 °F) (freezing)
<b>Initial Boiling Point/Range</b>	78.3 °C (172.9 °F)
<b>Flash Point</b>	16 °C (61 °F) (closed cup)
<b>Evaporation Rate</b>	Not available
<b>Flammability (solid, gas)</b>	Not available
<b>Upper/Lower Flammability or Explosive Limit</b>	19% (upper); 3.3% (lower)
<b>Vapour Pressure</b>	44 mm Hg at 20 °C
<b>Vapour Density (air = 1)</b>	1.63
<b>Relative Density (water = 1)</b>	0.81 at 25 °C
<b>Solubility</b>	Soluble in all proportions in water; Not available (in other liquids)
<b>Partition Coefficient, n-Octanol/Water (Log Kow)</b>	2.407
<b>Auto-ignition Temperature</b>	422 °C (792 °F)
<b>Decomposition Temperature</b>	Not available
<b>Viscosity</b>	Not available (kinematic); Not available (dynamic)
<b>Other Information</b>	
<b>Molecular Formula</b>	C <sub>2</sub> H <sub>6</sub> O
<b>Molecular Weight</b>	46.08

**SECTION 10. STABILITY AND REACTIVITY****Reactivity**

Not reactive.

**Chemical Stability**

Normally stable.

**Possibility of Hazardous Reactions**

None expected under normal conditions of storage and use.

**Conditions to Avoid**

Open flames, sparks, static discharge, heat and other ignition sources.

**Incompatible Materials**

Strong oxidizing agents (e.g. perchloric acid).

**Hazardous Decomposition Products**

Carbon Monoxide, Carbon Dioxide.

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## SECTION 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Ethanol	1800 ppm Human (30-minute exposure) (gas)	7060 mg/kg (rat)	20000 mg/kg (rabbit)
Ammonium, benzyldiethyl((2, 6-xylylcarbamoyl)methyl)-, benzoate	200 mg/m3 (rat) (4-hour exposure)	584 mg/kg (rat)	> 2000 mg/kg (rabbit)

LC50: No information was located.

LD50 (oral): No information was located.

LD50 (dermal): No information was located.

### Skin Corrosion/Irritation

Animal tests show mild irritation.

### Serious Eye Damage/Irritation

Animal tests show serious eye irritation.

### STOT (Specific Target Organ Toxicity) - Single Exposure

#### Inhalation

Harmful.

#### Skin Absorption

No information was located.

#### Ingestion

No information was located.

### Aspiration Hazard

No information was located.

### STOT (Specific Target Organ Toxicity) - Repeated Exposure

Causes harmful effects on the liver. Harmful based on studies in people.

### Respiratory and/or Skin Sensitization

No information was located.

### Carcinogenicity

Chemical Name	IARC	ACGIH®	NTP	OSHA
Ethanol	Group 1	A3	Not Listed	Not Listed
Ammonium, benzyldiethyl((2, 6-xylylcarbamoyl)methyl)-, benzoate	Not Listed	Not designated	Not Listed	Not Listed

May cause cancer based on animal studies.

### Key to Abbreviations

ACGIH® = American Conference of Governmental Industrial Hygienists. IARC = International Agency for Research on Cancer. NTP = National Toxicology Program. OSHA = US Occupational Safety and Health Administration.

### Reproductive Toxicity

#### Development of Offspring

Studies in people show effects on the unborn child. Known to cause: decreased weight, long-lasting behavioural changes.

#### Sexual Function and Fertility

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No information was located.

**Effects on or via Lactation**

No information was located.

**Germ Cell Mutagenicity**

May be mutagenic based on limited evidence.

**Interactive Effects**

No information was located.

**SECTION 12. ECOLOGICAL INFORMATION**

**Toxicity**

No information was located. (Ammonium, benzyldiethyl((2,6-xylylcarbamoyl)methyl)-, benzoate)

**Acute Aquatic Toxicity**

Chemical Name	LC50 Fish	EC50 Crustacea	ErC50 Aquatic Plants	ErC50 Algae
Ethanol	14.2 (Pimephales promelas (fathead minnow); 96-hour; salt water; flow-through)			

**Persistence and Degradability**

Degrades rapidly based on quantitative tests.

**Bioaccumulative Potential**

This product and its degradation products are not known to bioaccumulate.

**Mobility in Soil**

If released into the environment, this product can move rapidly through the soil.

**SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal Methods**

Bury in a licensed landfill or burn in an approved incinerator according to federal, provincial/state, and local regulations.

**SECTION 14. TRANSPORT INFORMATION**

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group
US DOT	1170	Ethanol (Ethyl Alcohol)	3	III
IATA (Air)	1170	Ethanol (Ethyl Alcohol)	3	III

**SECTION 15. REGULATORY INFORMATION**

**Safety, Health and Environmental Regulations**

**Canada**

**WHMIS Classification**



Class B2



Class D2B

B2 - Flammable Liquid; D2B - Toxic (Eye irritant)

**Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)**

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All ingredients are listed on the DSL/NDSL.

**CEPA - National Pollutant Release Inventory (NPRI)**

Not Specifically Listed. (Ethanol) part 5. (Ammonium, benzyldiethyl((2,6-xylylcarbamoyl)methyl)-, benzoate)

**USA**

**Toxic Substances Control Act (TSCA) Section 8(b)**

All ingredients are listed on the TSCA Inventory.

**SECTION 16. OTHER INFORMATION**

**NFPA Rating**                      **Health - 2**    **Flammability - 3**    **Instability - 0**

**SDS Prepared By**              Contech Enterprises Inc.

**Date of Preparation**            August 05, 2014

**Revision Indicators**          The following MSDS content was changed on August 05, 2014:  
Section 11 - Toxicological Information; Carcinogenicity.

**References**                      CHEMINFO database. Canadian Centre for Occupational Health and Safety (CCOHS).  
HSDB® database. US National Library of Medicine. Available from Canadian Centre for  
Occupational Health and Safety (CCOHS). Registry of Toxic Effects of Chemical Substances  
(RTECS®) database. Accelrys, Inc. Available from Canadian Centre for Occupational Health  
and Safety (CCOHS).

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