



# Safety Data Sheet

## Big D Fire-D Liquid After Fire Odor Control

### SECTION 1. IDENTIFICATION

<b>Product Identifier</b>	Big D Fire-D Liquid After Fire Odor Control
<b>Other Means of Identification</b>	02201, 120200, 420200, 520200, & C0420203
<b>Other Identification</b>	Fire-D Liquid
<b>Product Family</b>	Liquid Deodorants
<b>Recommended Use</b>	Deodorant.
<b>Restrictions on Use</b>	None known.
<b>Manufacturer</b>	Big D Industries, Inc., 5620 SW 29th St, Oklahoma City, OK, 73179, 405 682 2541, BigDInd.com
<b>Emergency Phone No.</b>	Big D Industries, 405 682 2541, 8-4:30 Monday-Friday
<b>SDS No.</b>	0434

### SECTION 2. HAZARDS IDENTIFICATION

#### GHS Classification

Flammable liquid - Category 4; Acute toxicity (Oral) - Category 2; Skin corrosion/irritation - Category 2; Serious eye damage/eye irritation - Category 1; Skin sensitization - Category 1; Germ cell mutagenicity - Category 1B; Carcinogenicity - Category 1A; Aquatic hazard (Acute) - Category 2; Aquatic hazard (Chronic) - Category 2

#### GHS Label Elements



Signal Word:  
Danger

#### Hazard Statement(s):

Combustible liquid.  
Fatal if swallowed.  
Causes skin irritation.  
May cause an allergic skin reaction.  
Causes serious eye damage.  
May cause genetic defects.  
May cause cancer.  
Toxic to aquatic life.  
Toxic to aquatic life with long lasting effects.

#### Precautionary Statement(s):

Prevention:  
Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.

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Keep away from flames and hot surfaces. – No smoking.  
 Avoid breathing dust, fume, gas, mist, vapours or spray.  
 Wash hands and skin thoroughly after handling.  
 Do not eat, drink or smoke when using this product.  
 Contaminated work clothing must not be allowed out of the workplace.  
 Avoid release to the environment.  
 Wear protective gloves/protective clothing/eye protection/face protection.

**Response:**

IF SWALLOWED: Immediately call a POISON CENTRE/doctor.  
 IF ON SKIN: Wash with plenty of water.  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 IF exposed or concerned: Get medical advice/attention.  
 Immediately call a POISON CENTRE/doctor.  
 Rinse mouth.  
 If skin irritation or rash occurs: Get medical advice/attention.  
 If skin irritation or rash occurs: Get medical advice/attention.  
 Specific treatment (see on this label).  
 Take off contaminated clothing and wash it before reuse.  
 In case of fire: Use appropriate foam, carbon dioxide, dry chemical powder to extinguish.  
 Wash contaminated clothing before reuse.

**Storage:**

Store in a well-ventilated place. Keep cool.  
 Store locked up.

**Disposal:**

Dispose of contents/container in accordance with local, regional, national and international regulations.

**Other Hazards**

None known.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Mixture:

Chemical Name	CAS No.	%	Other Identifiers
Dipropylene glycol monomethyl ether	34590-94-8	50.13	
Other components below reportable Levels	No CAS		
1,2-Propylene glycol	57-55-6	21.98	
Pine oil	8002-09-3	2.05	
n-Amyl acetate	628-63-7	1.92	
Terpenes and Terpenoids, sweet orange-oil	68647-72-3	1.87	
ALPHA-TERPINEOL	98-55-5	1.56	
Terpineol, acetate	8007-35-0	1.48	
2-Methylbutyl acetate	624-41-9	1.03	
p-Mentha-6,8-dien-2-one, (R)-(-)-	6485-40-1	0.82	
Naphtha (petroleum), heavy alkylate	64741-65-7	0.68	
CITRAL	5392-40-5	0.64	
CEDARWOOD OIL	8000-27-9	0.52	

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Citronella oil	8000-29-1	0.45	
METHYL ANTHRANILATE	134-20-3	0.45	
Cornmint oil	68917-18-0	0.43	
Hydrocarbons, terpene processing by-products	68956-56-9	0.43	
METHYL SALICYLATE	119-36-8	0.39	
Eucalyptus oil	8000-48-4	0.33	
Ethyl acetate	141-78-6	0.32	
Ethyl butyrate	105-54-4	0.27	
Benzyl acetate	140-11-4	0.24	
Ceylon cinnamon oil	8015-91-6	0.23	
CINNAMALDEHYDE	104-55-2	0.16	
Lavandin oil	8022-15-9	0.16	
VANILLIN	121-33-5	0.16	
COUMARIN	91-64-5	0.14	
ANETHOLE	104-46-1	0.14	

## SECTION 4. FIRST-AID MEASURES

### First-aid Measures

#### Inhalation

Take precautions to ensure your own safety before attempting rescue (e.g. wear appropriate protective equipment). Move to fresh air. If experiencing respiratory symptoms (e.g. coughing, shortness of breath, wheezing), call a Poison Centre or doctor.

#### Skin Contact

Avoid direct contact. Wear chemical protective clothing if necessary. Immediately wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 15-20 minutes.

#### Eye Contact

Avoid direct contact. Wear chemical protective gloves if necessary. Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open.

#### Ingestion

Rinse mouth with water. If vomiting occurs naturally, lie on your side in the recovery position. Rinse mouth with water again.

#### First-aid Comments

If exposed or concerned, get medical advice/attention.

### Most Important Symptoms and Effects, Acute and Delayed

Symptoms include slight redness and swelling. Repeated or prolonged exposure can irritate the skin. Contact can cause pain, redness, burns, and blistering. Permanent scarring can result.

### Immediate Medical Attention and Special Treatment

#### Special Instructions

Not applicable.

#### Medical Conditions Aggravated by Exposure

None known.

## SECTION 5. FIRE-FIGHTING MEASURES

### Extinguishing Media

#### Suitable Extinguishing Media

Carbon dioxide, dry chemical powder or appropriate foam.

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### Unsuitable Extinguishing Media

None known.

### Specific Hazards Arising from the Chemical

Can ignite if strongly heated.

Very toxic carbon monoxide, carbon dioxide.

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

Use extreme caution.

Chemical protective clothing (e.g. chemical splash suit) and positive pressure SCBA may be necessary.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

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

Do not touch damaged containers or spilled product unless wearing appropriate protective equipment. Use the personal protective equipment recommended in Section 8 of this safety data sheet.

### Environmental Precautions

Do not allow into any sewer, on the ground or into any waterway. If the spill is inside a building, prevent product from entering drains, ventilation systems and confined areas.

### Methods and Materials for Containment and Cleaning Up

Review Section 7 (Handling) of this safety data sheet before proceeding with clean-up. Contain and soak up spill with absorbent that does not react with spilled product. Place used absorbent into suitable, covered, labelled containers for disposal.

## SECTION 7. HANDLING AND STORAGE

### Precautions for Safe Handling

Avoid breathing in this product. Prevent all skin contact. Do not get in eyes, on skin or on clothing. Do not swallow. Avoid release to the environment. Immediately report leaks, spills or failures of the safety equipment (e.g. ventilation system). Get medical advice/attention for all exposures. Symptoms can be delayed.

### Conditions for Safe Storage

Store in an area that is: well-ventilated, 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
Benzyl acetate	10 ppm					
n-Amyl acetate	50 ppm	100 ppm	525 mg/m3			
2-Methylbutyl acetate	50 ppm	100 ppm				
CITRAL	5 ppm					
Ethyl acetate	400 ppm		1400 mg/m3			
VANILLIN	10 mg/m3					
1,2-Propylene glycol			10 mg/m3			
Dipropylene glycol monomethyl ether	100 ppm	150 ppm	600 mg/m3			

ACGIH® = American Conference of Governmental Industrial Hygienists. OSHA = US Occupational Safety and Health Administration. TWA = Time-Weighted Average. STEL = Short-term Exposure Limit. PEL = Permissible Exposure Limits.

### Appropriate Engineering Controls

General ventilation is usually adequate.

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## Individual Protection Measures

### 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.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Basic Physical and Chemical Properties

<b>Appearance</b>	liquid. Particle Size: Not applicable
<b>Odour</b>	Fragrant
<b>Odour Threshold</b>	Not available
<b>pH</b>	Not applicable
<b>Melting Point/Freezing Point</b>	Not available (melting); Not available (freezing)
<b>Initial Boiling Point/Range</b>	Not available
<b>Flash Point</b>	63 °C (145 °F)
<b>Evaporation Rate</b>	Not available
<b>Flammability (solid, gas)</b>	Not applicable
<b>Upper/Lower Flammability or Explosive Limit</b>	Not available (upper); Not available (lower)
<b>Vapour Pressure</b>	Not available
<b>Vapour Density (air = 1)</b>	Not available
<b>Relative Density (water = 1)</b>	Not available
<b>Solubility</b>	Not available in water; Not available (in other liquids)
<b>Partition Coefficient, n-Octanol/Water (Log Kow)</b>	Not available
<b>Auto-ignition Temperature</b>	Not available
<b>Decomposition Temperature</b>	Not available
<b>Viscosity</b>	Not available (kinematic); Not available (dynamic)
<b>Other Information</b>	
<b>Physical State</b>	Liquid
<b>Molecular Formula</b>	Not applicable
<b>Molecular Weight</b>	Not applicable
<b>Bulk Density</b>	Not available
<b>Surface Tension</b>	Not available
<b>Critical Temperature</b>	Not available
<b>Electrical Conductivity</b>	Not available
<b>Vapour Pressure at 50 deg C</b>	Not available
<b>Saturated Vapour Concentration</b>	Not available

## SECTION 10. STABILITY AND REACTIVITY

### Reactivity

None known.

### Chemical Stability

Normally stable.

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**Possibility of Hazardous Reactions**

None known.

**Conditions to Avoid**

None known.

**Incompatible Materials**

None known.

**Hazardous Decomposition Products**

None known.

**SECTION 11. TOXICOLOGICAL INFORMATION****Likely Routes of Exposure**

Inhalation; skin contact; eye contact.

**Acute Toxicity**

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Benzyl acetate		830 mg/kg (mouse)	> 5000 mg/kg (rabbit)
COUMARIN		293 mg/kg (rat)	
CITRAL		4950 mg/kg (rat)	> 2000 mg/kg (rat)
METHYL ANTHRANILATE		2910 mg/kg (rat)	5000 mg/kg (rabbit)
Ethyl acetate	16000 mg/L (rat)	5600 mg/m <sup>3</sup> (rat) (2-hour exposure)	
Ethyl butyrate		13050 mg/kg (rat)	
CINNAMALDEHYDE		3400 mg/kg (rat)	> 1200 mg/kg (rat)
VANILLIN		1580 mg/kg (rat)	
1,2-Propylene glycol		22000 mg/kg (mouse)	20800 mg/kg (rabbit)
Dipropylene glycol monomethyl ether		5135 mg/kg	9500 mg/kg

LC50: No information was located.

LD50 (oral): No information was located.

LD50 (dermal): No information was located.

**Skin Corrosion/Irritation**

No information was located.

**Serious Eye Damage/Irritation**

No information was located.

**STOT (Specific Target Organ Toxicity) - Single Exposure****Inhalation**

No information was located.

**Skin Absorption**

No information was located.

**Ingestion**

No information was located.

**Aspiration Hazard**

No information was located.

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

No information was located.

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### Respiratory and/or Skin Sensitization

No information was located for respiratory sensitization. May cause an allergic reaction (skin sensitization) based on limited evidence.

### Carcinogenicity

No information was located.

### Reproductive Toxicity

#### Development of Offspring

No information was located.

#### Sexual Function and Fertility

No information was located.

#### Effects on or via Lactation

No information was located.

### Germ Cell Mutagenicity

No information was located.

### Interactive Effects

No information was located.

## SECTION 12. ECOLOGICAL INFORMATION

Environmental information was not located.

### Toxicity

No information was located.

#### Acute Aquatic Toxicity

Chemical Name	LC50 Fish	EC50 Crustacea	ErC50 Aquatic Plants	ErC50 Algae
COUMARIN	32-100 mg/L (96-hour)			
n-Amyl acetate	65 mg/L (96-hour)			
METHYL ANTHRANILATE	7.98-10.51 mg/L (Lepomis macrochirus (bluegill); 96-hour)			
Ethyl acetate	200.32-225.42 mg/L (48-hour)			
VANILLIN	53-61.3 mg/L (Pimephales promelas (fathead minnow); 96-hour)			

### Persistence and Degradability

No information was located.

### Bioaccumulative Potential

No information was located.

### Mobility in Soil

No information was located.

### Other Adverse Effects

There is no information available.

## SECTION 13. DISPOSAL CONSIDERATIONS

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## Disposal Methods

Store product for disposal as described under Storage in Section 7 of this safety data sheet.

## SECTION 14. TRANSPORT INFORMATION

Not regulated under Canadian TDG Regulations. Not regulated under US DOT Regulations.

**Special Precautions for User** Not applicable

**Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable

## SECTION 15. REGULATORY INFORMATION

### Safety, Health and Environmental Regulations

None known.

#### USA

##### Additional USA Regulatory Lists

CERCLA. (2-Methylbutyl acetate). (Ethyl acetate). (Ethyl butyrate). (n-Amyl acetate). (Pinene)

Massachusetts Right To Know. (Dipropylene glycol monomethyl ether). (Ethyl acetate). (Ethyl butyrate). (n-Amyl acetate). (Pinene)

New Jersey Right To Know. (Dipropylene glycol monomethyl ether). (Pine oil). (Benzyl acetate). (Ethyl acetate). (Ethyl butyrate). (n-Amyl acetate). (Pinene)

Pennsylvania Right To Know. (Dipropylene glycol monomethyl ether). (Ethyl acetate). (Ethyl butyrate). (METHYL SALICYLATE). (n-Amyl acetate). (Pinene)

Rhode Island Right To Know. (Ethyl acetate). (n-Amyl acetate)

## SECTION 16. OTHER INFORMATION

**SDS Prepared By** Wayne Hegstrom  
**Phone No.** 405 682 2541  
**Date of Preparation** April 07, 2015  
**Revision Indicators** Not applicable.

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