



Safety Data Sheet

Big D Fire-D Liquid After Fire Odour Control

SECTION 1. IDENTIFICATION

Product Identifier	Big D Fire-D Liquid After Fire Odour Control
Other Means of Identification	02201, 120200, 420200, 520200, & C0420203
Other Identification	Fire-D Liquid
Product Family	Liquid Deodorants
Recommended Use	Deodorant.
Restrictions on Use	None known.
Manufacturer	Big D Industries, Inc., 5620 SW 29th St, Oklahoma City, OK, 73179, 405 682 2541, BigDInd.com
Emergency Phone No.	InfoTrac, 800 535 5053, 24hr
SDS No.	0653

SECTION 2. HAZARD IDENTIFICATION

Classification

Flammable liquid - Category 3; Skin irritation - Category 2; Eye irritation - Category 2A

Label Elements



Signal Word:
Warning

Hazard Statement(s):

Flammable liquid and vapour.

Combustible liquid.

Harmful if swallowed.

IF SWALLOWED: Immediately call a POISON CENTRE/doctor/

Causes skin irritation.

Causes serious eye irritation.

Precautionary Statement(s):

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

Keep container tightly closed.

Use explosion-proof electrical/ventilating/lighting/equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Wash hands thoroughly after handling.

Wear protective gloves/eye protection/face protection.

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Response:

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 skin irritation occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

Take off contaminated clothing and wash it before reuse.

Storage:

Store in a well-ventilated place. Keep cool.

Disposal:

Dispose of contents and 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	
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	

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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

Immediately call a Poison Centre or doctor. Never give anything by mouth if person is rapidly losing consciousness, or is unconscious or convulsing. Do not induce vomiting.

First-aid Comments

If exposed or concerned, get medical advice or attention.

Most Important Symptoms and Effects, Acute and Delayed

If inhaled: at low concentrations can cause severe irritation of the nose and throat. Symptoms may include coughing, shortness of breath, difficult breathing and tightness in the chest. If on skin: at low concentrations may cause mild irritation. Symptoms include slight redness and swelling. Repeated or prolonged exposure can irritate the skin. The vapour also irritates the eyes.

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.

Unsuitable Extinguishing Media

None known.

Specific Hazards Arising from the Product

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

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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 or 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/m ³			
2-Methylbutyl acetate	50 ppm	100 ppm				
CITRAL	5 ppm					
Ethyl acetate	400 ppm		1400 mg/m ³			
VANILLIN	10 mg/m ³					
1,2-Propylene glycol			10 mg/m ³			
Dipropylene glycol monomethyl ether	100 ppm	150 ppm	600 mg/m ³			

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.

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

Appearance liquid. Particle Size: Not applicable

Odour Fragrant

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

SECTION 10. STABILITY AND REACTIVITY

Chemical Stability

Normally stable.

Possibility of Hazardous Reactions

None known.

Conditions to Avoid

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

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)

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METHYL ANTHRANILATE		2910 mg/kg (rat)	5000 mg/kg (rabbit)
Ethyl acetate	16000 mg/L (rat)	5600 mg/m3 (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

May cause mild irritation based on information for closely related chemicals.

Serious Eye Damage/Irritation

May cause serious eye irritation based on information for closely related materials. May cause serious eye damage based on information for closely related materials.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

May be harmful based on information for closely related materials.

Skin Absorption

May be harmful based on information for closely related materials.

Ingestion

No information was located. May be harmful based on information for closely related materials.

Aspiration Hazard

No information was located. Can cause lung damage if aspirated based on human experience.

STOT (Specific Target Organ Toxicity) - Repeated Exposure

No information was located.

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. Not a carcinogen. Not known to cause cancer.

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

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Environmental information was not located.

Ecotoxicity

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

Disposal Methods

Store product for disposal as described under Storage in Section 7 of this safety data sheet. Burn in an approved incinerator according to federal, provincial/state, and local regulations. Do not reuse empty containers.

SECTION 14. TRANSPORT INFORMATION

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

Special Precautions 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)

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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

NFPA Rating **Health - 1** **Flammability - 3**

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Disclaimer This Safety Data Sheet has been prepared in accordance with the Globally Harmonized System for the Classification and Labeling of Chemical (GHS) TO the best of our knowledge the information herein is accurate. However, the supplier makes no warranty and assume no liability resulting from its use. In No event shall the supplier be liable for any claims, losses, or damages of any third party resulting from the use of or reliance upon this information.

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