

**Material Safety Data Sheet**

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

**U.S. Department of Labor**  
Occupational Safety and Health  
(Non-Mandatory Form)  
Form Approved  
OMB No. 1218-0072

HMIS RATING	
Health	2
Flammability	1
Reactivity	1

BI 470

**IDENTITY** (As Used on Label and List) #470  
Big D Concentrated Insect Killer

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

**Section I**

<b>Manufacturer's Name</b> Big 'D' Industries, Inc.	<b>Emergency Telephone Number</b> 800-535-5053 405-682-2541
<b>Address (Number, Street, City, State, and ZIP Code)</b> 5620 S. W. 29th Street	<b>Telephone Number for Information</b> 800-654-4752 405-682-2541
<b>P. O. Box</b> 82219	<b>Date Prepared</b> 06/28/94
<b>Oklahoma City, Oklahoma</b> 73148	<b>Signature of Preparer (optional)</b>

**Section II — Hazardous Ingredients/Identity Information**

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Propane CAS#74-98-6	1000 ppm	N.A.	-	20-30%
Butane CAS #106-97-8	800 ppm	800 ppm	-	20-30%
Petroleum Distillate CAS #64742-47-8	N.A.	N.A.	-	10-20%
*1,1,1 Trichloroethane CAS #71-55-6	350 ppm	350 ppm	-	25-30%

\* This is a toxic chemical subject to the reporting requirements of Section 313 of SARA-III of 1986 and 40 CFR part 372.

**Section III — Physical/Chemical Characteristics**

<b>Boiling Point</b> (F)	165	<b>Specific Gravity (H<sub>2</sub>O = 1)</b>	1.11
<b>Vapor Pressure (mm Hg.)</b> PSIG @ 70°F	81	<b>Melting Point</b>	N.A.
<b>Vapor Density (AIR = 1)</b>	>1	<b>Evaporation Rate (Butyl Acetate = 1)</b>	>1

**Solubility in Water**  
Negligible.

**Appearance and Odor**  
Clear yellow liquid having a mild odor.

**Section IV — Fire and Explosion Hazard Data**

<b>Flash Point (Method Used) (on Conc.)</b> None TCC	<b>Flammable Limits</b>	<b>LEL</b> 7	<b>UEL</b> 13
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**Extinguishing Media**  
Carbon dioxide, dry chemical, foam.

**Special Fire Fighting Procedures**  
Self contained air supply suggested. Keep containers cool to avoid bursting.

Use shielding to protect personnel against bursting, rupturing or venting containers.

**Unusual Fire and Explosion Hazards**  
Exposure to temperatures above 130°F may cause bursting.



**Section V — Reactivity Data**

Stability	Unstable		Conditions to Avoid
	Stable	X	Avoid heating to abnormal temperatures.

Incompatibility (Materials to Avoid) Avoid strong oxidizing agents.

Hazardous Decomposition or Byproducts  
Hydrogen chloride and small amounts of Phosgene and Chlorine.

Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	X	None

**Section VI — Health Hazard Data**

Route(s) of Entry:                      Inhalation?                      Yes                      Skin?                      Yes                      Ingestion?                      Yes

Health Hazards (Acute and Chronic)  
Acute - Headaches, nausea, vomiting, sweating, abdominal cramps, breathing difficulties.

Chronic - Eye irritation.

Carcinogenicity:                      NTP?                      No                      IARC Monographs?                      No                      OSHA Regulated?                      No

Signs and Symptoms of Exposure                      Headache, nausea, breathing difficulties, eye irritation.

Medical Conditions Generally Aggravated by Exposure                      Emphysema.

**Emergency and First Aid Procedures**

Eyes - Flood repeatedly with plenty of water for 15 minutes. Skin- Wash with soap and water. Do not induce vomiting. Drink several glasses of water or milk. Seek medical attention. Inhalation - Remove to fresh air. Seek medical attention.

**Section VII — Precautions for Safe Handling and Use**

Steps to Be Taken in Case Material Is Released or Spilled                      Remove sources of flame, spark or heat. If container is ruptured and begins to leak, place in a well ventilated area. Dispose of container in a safe manner. For skin contact, wash with soap and water.

**Waste Disposal Method**

Do not discard in incinerator or fire. Dispose of in accordance with Local, State and Federal regulations.

**Precautions to Be Taken in Handling and Storing**

Store in a cool area away from heat or open flame. Do not store above 130°F.

**Other Precautions**

Read label and use in accordance with instructions.

**Section VIII — Control Measures**

Respiratory Protection (Specify Type)                      Self contained breathing apparatus.

Ventilation	Local Exhaust	Door and windows open.	Special	N.A.
	Mechanical (General)	Fan	Other	N.A.

Protective Gloves                      Rubber or plastic.                      Eye Protection                      Goggles.

Other Protective Clothing or Equipment                      Eyewash facility...

Work/Hygiene Practices                      Good housekeeping practices. Avoid skin/eye contact.