

MATERIAL SAFETY DATA SHEET

HF-450-W  
Foamer

0 HMIS HEALTH  
2 HMIS FLAMMABILITY  
0 HMIS REACTIVITY  
C HMIS PERSONAL PROTECTION

SECTION I - IDENTIFICATION

COMPANY NAME..... B.B. CHEMICALS, INC. 16107 W. UNIVERSITY, ODESSA, TEXAS 79763  
PHONE NUMBER..... 432-381-2595  
EMERGENCY PHONE NUMBER ..... 800-424-9300  
EFFECTIVE DATE..... November 2009  
TRADE NAME..... HF-450-W  
CHEMICAL FAMILY ..... Surfactant, Foaming Agents, Glycols  
CAS NUMBER ..... Blend of Components  
CHEMICAL FORMULA ..... Confidential

SECTION II - HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENTS	%	TLV (Units)	PROD. CAS #
2- Propanol	3-5%	200 PPM	67-63-0
Ethylene Glycol	20%	STEL 10 PPM	107-21-1

SECTION III - PHYSICAL DATA

BOILING Point(F)..... ND  
FREEZING POINT (F)..... 0°  
VAPOR PRESSURE (mm Hg) ..... ND  
VAPOR DENSITY (Air=1) ..... ND  
VOLATILITY/VOL(%) ..... ND  
SOLUBILITY IN H2O ..... Soluble  
APPEARANCE/ODOR ..... Coloress to Amber Liquid  
SPECIFIC GRAVITY (H2O=1)..... 1.039  
DENSITY (G/ML)..... 477 lbs per 55 gallon drumm  
PH..... ND

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT..... 160° F  
LOWER FLAME LIMIT ..... ND  
HIGHER FLAME LIMIT ..... ND  
EXTINGUISH MEDIA ..... Alcohol foam, Dry Powder, Carbon Dioxide (CO2). Use water if only resource available.  
UNUSUAL FIRE HAZARD..... **Combustible Liquid:** Vapors can form an ignitable mixture with air. Vapors can flow along surfaces to a instant ignition source and flash back. Material can burn with little or no visible flame. Containers may explode from internal pressure, if cnfined to fire. Cool with water. Keep unnecessary people away.

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**SECTION V - HEALTH HAZARD DATA**

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THRESHOLD LIMIT VALUE..... 50 PPM based upon ethylene glycol

<b>ROUTES OF ENTRY</b>	<b>INHALATION?</b>	<b>SKIN?</b>	<b>INGESTION?</b>
	UNKNOWN	IRRITANT	IRRITANT

HEALTH HAZARDS ..... Acute. Irritant to eyes and skin. Chronic, Kidney and Liver damage possible. Glycol ethers have been linked with birth defects and mutagenic claims.

<b>CARCINOGENICITY</b>	<b>NTP?</b>	<b>IARC MONOGRAPHS?</b>	<b>OSHA REGULATED</b>
No	No	No	No

OVER EXPOSURE EFFECTS ..... Skin irritation develops slowly after contact. Eye irritation develops immediately upon contact.  
FIRST AID PROCEDURES ..... In case of eye contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention. In case of skin contact immediately wash skin with soap and plenty of water. If irritation persists, contact a physician. If inhaled, remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing difficult, give oxygen. Get medical attention. If swallowed, do NOT induce vomiting and get IMMEDIATE medical attention.

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**SECTION VI - REACTIVITY DATA**

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CHEMICAL STABILITY ..... Stable  
CONDITIONS TO AVOID ..... None  
INCOMPATIBLE MATERIALS ..... None currently known  
DECOMPOSITION PRODUCTS ..... FROM FIRE: SMOKE, CARBON DIOXIDE, CARBON MONOXIDE, OXIDES OF PHOSPHOROUS AND OXIDES OF NITROGEN  
HAZARDOUS POLYMERIZATION ..... Will not occur  
POLYMERIZATION AVOID ..... None

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**SECTION VII - SPILL OR LEAK PROCEDURE**

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FOR SPILL ..... In case of spillage, absorb with inert material and dispose of in accordance with applicable regulations.  
WASTE DISPOSAL METHOD ..... Industrial Waste Follow State Regulations.

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**SECTION VIII - SPECIAL PROTECTION**

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RESPIRATORY PROTECTION ..... Not Normally needed.  
VENTILATION ..... Desired in closed places  
MECHANICAL EXHAUST ..... Desired  
LOCAL EXHAUST ..... Desired in closed places  
PROTECTIVE GLOVES..... Chemical Type suitable for hydrocarbon solvents.  
EYE PROTECTION..... Chemical Goggles or Full Face Shield recommended  
OTHER PROTECTIVE EQUIPMENT ..... HMIS Personal Protection:C: Safety glasses, Gloves, and Synthetic apron.

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**SECTION IX - SPECIAL HANDLING AND DOT**

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HANDLING AND STORAGE ..... Store in a cool place away from ignition sources. Store away from oxidizers or materials bearing a yellow DOT label. Store away from oxidizers or materials bearing a yellow DOT label.

PRECAUTIONARY MEASURES..... Keep away from heat, sparks and flame. Use with adequate ventilation. Do not breathe vapors avoid prolonged or repeated contact with skin. Do not breathe vapors. Avoid prolonged or repeated contact with skin.

HAZARD CLASS ..... Combustible Liquid

DOT SHIPPING NAME ..... UN 1993, Combustible Liquid, n.o.s., 3, PGIII (Contains Isopropyl Alcohol )

REPORTABLE QUANTITY (RQ) ..... 25,000 lbs or 2,880 gallons

UN NUMBER ..... UN 1993

NA # .....

PACKAGING SIZE ..... Bulk and Drums

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FOOT NOTES

N/A=NOT APPLICABLE - N/D=NO DATA  
AVAILABLE <=LESS THAN - >=GREATER  
THAN

PREPARED BY ..... B. B. Chemicals, Inc. (432) 381-2595  
REVISED DATE..... November 2009

This product health and safety information is provided to assist our customers in assessing compliance with health, safety and environmental regulations. The information contained herein is based on data available to us, and is believed to be accurate, although no guarantee or warranty is provided or implied by the company in this respect. Since the use of this product is within the exclusive control of the user, it is the user's responsibility to determine the conditions of safe use. Such conditions must comply with all governmental regulations. All material in this product are produced in compliance with public law 94-469. (Also known as the "Toxic Substance Control Act" of 1976). **MUST COMPLY WITH ALL GOVERNMENTAL REGULATIONS. ALL MATERIALS IN THIS PRODUCT ARE PRODUCED IN COMPLIANCE WITH PUBLIC LAW 94-469. (ALSO KNOWN AS THE "TOXIC SUBSTANCE CONTROL ACT" OF 1976).**

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TRADE NAME..... HF-450-W

SIGNAL WORD ..... CAUTION!

STATEMENT OF HAZARD..... Combustible Liquid

DOT LABEL REQUIRED..... NOT REGULATED in containers of 119 gallons or less

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**ENVIRONMENTAL DATA SHEET**

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PHONE NUMBER..... 432-381-2595  
EMERGENCY PHONE NUMBER ..... 800-424-9300  
EFFECTIVE DATE..... November 16, 2009  
TRADE NAME..... HF-450-W  
CHEMICAL FAMILY ..... Foamer

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SPECIAL NOTICE: In accordance with 40 CFR 372.45, this product contains the following materials which have been classified as TOXIC under SARA Title III, Section 313. This page is a part of the Material Safety Data Sheet describing the above named product and shall not be detached. Any reproduction or distribution of this Material Safety Data Sheet after January 1, 1989 must include this page.

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**SECTION XI - SARA TITLE III, SECTION 313**

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TOXIC CHEMICALS	%	PROD. CAS #
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**SECTION X - ENVIRONMENTAL DATA**

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EPA HAZARD..... Characteristics of Ignitability

CERCLA RQ VALUE..... If the reportable quantity of this product is accidentally spilled, the incident is subject to the provisions of the Comprehensive Environmental Response, Compensation and Liability Act and must be reported to the national response center. The reportable spill quantity of this product is 25,000 lbs or 2,880 gallons

SARA TPQ..... 25,000 lbs or 2,880 gallons  
SARA RQ ..... 25,000 lbs or 2,880 gallons

RCRA HAZARDOUS WASTE ..... NONE

CLEAN AIR..... Componets of this product are listed on the TSCA inventory.  
CLEAN WATER..... This material may contain known marine pollutants. Discharges to any water source should be avoided at all times. In the event of a spill, proper prevention methods should be used to prevent accidental release into stream, lakes, or any public or private water system.