

MATERIAL SAFETY DATA SHEET

IDB-60
MICROBIOCIDES

2 HMIS HEALTH
0 HMIS FLAMMABILITY
0 HMIS REACTIVITY
2 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..... April, 1993
TRADE NAME..... IDB-60
CHEMICAL FAMILY..... Microbicide
CAS NUMBER..... Blend
CHEMICAL FORMULA..... Confidential

SECTION II - HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENTS	%	TLV (Units)	PROD. CAS #
Disodium Ethylenebisdithiocarbamate	15%	NE	NE
Ethylene Thiourea	<1%	NE	96-45-7
Ethylendiamine	<.75%	10ppm	107-15-3
Dimethylamine	<.75%	10ppm	124-40-3

SECTION III - PHYSICAL DATA

BOILING Point(F)..... (F/C): >212/100
FREEZING POINT (F)..... (F/C): 32/0
VAPOR PRESSURE (mm Hg)..... (mm Hg): NA
VAPOR DENSITY (Air=1)..... (Air - 1): NA
VOLATILITY/VOL(%)..... 79%, Water
SOLUBILITY IN H2O..... Soluble
APPEARANCE/ODOR..... Yellow-green solution with characteristic sulfur odor.
SPECIFIC GRAVITY (H2O=1)..... (Water = 1): 1.176
DENSITY (G/ML)..... 47# / 5 gallon pail
PH..... 10.5 to 12.4

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT..... None
LOWER FLAME LIMIT..... NA
HIGHER FLAME LIMIT..... NA
EXTINGUISH MEDIA..... Product is non-flammable as supplied. Use water, foam, carbon dioxide or dry chemical to extinguish fire.

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UNUSUAL FIRE HAZARD Product is non-flammable as supplied. Do not depend on ambient air for breathing air supply during fires. Fire may result into release of toxic gases such as oxides of carbon, nitrogen and sulfur.

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE No Data

ROUTES OF ENTRY	INHALATION?	SKIN?	INGESTION?
	Nausea	Slight Irritant	Irritant

HEALTH HAZARDS No adverse health effects anticipated.

CARCINOGENICITY	NTP?	IARC MONOGRAPHS?	OSHA REGULATED
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. If swallowed, do not induce vomiting, get immediate medical attention.

SECTION VI - REACTIVITY DATA

CHEMICAL STABILITY Stable
CONDITIONS TO AVOID Acidification releases flammable gases.
INCOMPATIBLE MATERIALS Mineral acids such as sulfuric, nitric, and hydrochloric.
DECOMPOSITION PRODUCTS A-Thermal decomposition may release gases such as amines and carbon disulfide. B-Combustion of dry film may release oxides of carbon, nitrogen, and sulfur.
HAZARDOUS POLYMERIZATION Will not occur
POLYMERIZATION AVOID None

SECTION VII - SPILL OR LEAK PROCEDURE

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.

SECTION VIII - SPECIAL PROTECTION

RESPIRATORY PROTECTION None requires if good ventilation is maintained. Otherwise, wear self-contained breathing apparatus. (Pressure Demand, MSHA/NIOSH approved or equivalent).
VENTILATION
MECHANICAL EXHAUST Yes
LOCAL EXHAUST Desired in closed places

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PROTECTIVE GLOVES Chemical Type suitable for hydrocarbon solvents.
EYE PROTECTION..... Chemical Goggles or Full Face Shield recommended
OTHER PROTECTIVE EQUIPMENT..... NOT NORMALLY NEEDED

SECTION IX - SPECIAL HANDLING AND DOT

HANDLING AND STORAGE..... Store in a cool place away from ignition sources. 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..... Environmentally Hazardous
DOT SHIPPING NAME RQ Environmentally Hazardous Substance Liquid, n.o.s., 9, UN3082, PGIII (ethylenethiourea)
ERG# 171
REPORTABLE QUANTITY (RQ)..... None
UN NUMBER None
NA # None
PACKAGING SIZE..... Bulk and Drums

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..... January 1999

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 IDB-60

SIGNAL WORD..... CAUTION!

STATEMENT OF HAZARD FLAMMABLE

DOT LABEL REQUIRED ENVIRONMENTALLY HAZARDOUS

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ENVIRONMENTAL DATA SHEET

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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.

SECTION XI - SARA TITLE III, SECTION 313

TOXIC CHEMICALS	%	PROD. CAS #
Ethylene Thiourea		96-45-7
Dimethylamine		124-40-3
Ethylenediamine		107-15-3

SECTION X - ENVIRONMENTAL DATA

EPA HAZARD NONE
CERCLA RQ VALUE..... NONE
SARA TPQ NONE
SARA RQ NONE
RCRA HAZARDOUS WASTE..... NONE
CLEAN AIR NONE
CLEAN WATER..... NONE