

DeFoamer KCI

ENVIRONMENTAL DATA SHEET

SECTION I - IDENTIFICATION

COMPANY NAME..... B.B. CHEMICALS, INC.
 16107 W. UNIVERSITY
 GOESSA, TX 79769
 PHONE NUMBER..... 915/381-2595
 EMERGENCY PHONE NUMBER... 800/732-9376
 EFFECTIVE DATE..... May, 1993
 TRADE NAME..... DeFoamer KCI
 CHEMICAL FAMILY..... DeFoamer

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 #
None		

SECTION X - ENVIRONMENTAL DATA

EPA HAZARD..... ACUTE
 CHRONIC
 CERCLA RQ VALUE..... NONE
 SARA TPO..... NONE
 SARA RQ..... NONE
 RCRA HAZARDOUS WASTE..... NONE
 CLEAN AIR..... CAA SECTION 111
 CLEAN WATER..... NONE

DeFoamer

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

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SECTION I - IDENTIFICATION

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COMPANY NAME..... E.B. CHEMICALS, INC.
 16107 W. UNIVERSITY
 ODESSA, TX 79769
 PHONE NUMBER..... 915/381-2595
 EMERGENCY PHONE NUMBER... 800/732-9876
 EFFECTIVE DATE..... May, 1993
 TRADE NAME..... DeFoamer KCT
 CHEMICAL FAMILY..... DeFoamer
 CAS NUMBER..... Blend
 CHEMICAL FORMULA..... Confidential

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SECTION II - HAZARDOUS INGREDIENTS

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HAZARDOUS COMPONENTS	%	TLV (Units)	PROD. CAS #
2-ETHYLHEXANOL	Conf.	OSHA TWA 200 PPM(SKIN) ACGIH TWA 5 PPM(SKIN)	104-76-7

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SECTION III - PHYSICAL DATA

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BOILING Point(F)..... ND
 FREEZING POINT (F)..... ND
 VAPOR PRESSURE (mm Hg)... ND
 VAPOR DENSITY (Air=1)... ND
 VOLATILITY/VOL(%)..... ND
 SOLUBILITY IN H2O..... Insoluble
 APPEARANCE/ODOR..... Clear solution, Solvent odor
 SPECIFIC GRAVITY (H2O=1). ND
 PH..... NA

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SECTION IV - FIRE AND EXPLOSION HAZARD DATA

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FLASH POINT..... 110 degrees F.
 LOWER FLAME LIMIT..... ND
 HIGHER FLAME LIMIT..... ND
 EXTINGUISH MEDIA..... Dry Powder, Carbon Dioxide (CO2), "Alcohol Foam"
 UNUSUAL FIRE HAZARD..... Containers may explode from internal pressure if
 confined 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... 5 ppm based on 2 Ethylhexanol

ROUTES OF ENTRY	INHALATION? Irritant	SKIN? Irritant	INGESTION? Irritant
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HEALTH HAZARDS Chronic, Kidney and Liver damage possible. Glycol ethers have been linked with birth defects and mutagenic claims. Acute, Inhalation of vapors may be narcotic and can be fatal. Ingestion of liquid will cause gastrointestinal distress, irritation, possibly nausea, and can be fatal. Liquid or vapors may be irritating to skin and eyes.

CARCINOGENICITY No	NTP? No	IARC MONOGRAPHS? No	OSHA REGULATED No
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OVER EXPOSURE EFFECTS.... Skin irritation develops slowly after contact. Eye irritation develops immediately upon contact. Signs of Inhalation Overexposure: Irritation of Respiratory Tract, Nervous System Depression, Headaches, Dizziness, Staggering Gait, Confusion, Unconsciousness, Coma.

FIRST AID PROCEDURES..... IN CASE OF EYE CONTACT, FLUSH IMMEDIATELY WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES AND GET MEDICAL ATTENTION; FOR SKIN, WASH THOROUGHLY WITH SOAP AND WATER. IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION, PREFERABLY MOUTH-TO MOUTH. IF BREATHING IS DIFFICULT, GIVE OXYGEN. GET MEDICAL ATTENTION. IF SWALLOWED, DO NOT INDUCE VOMITING, 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... Oxidizers or Oxidizing Materials
 DECOMPOSITION PRODUCTS... FROM FIRE: SMOKE, CARBON DIOXIDE AND CARBON MONOXIDE
 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 METHGD.... Hazardous Waste. Follow Federal and 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.

DeFoamer KCl

EYE PROTECTION..... Chemical Goggles or Full Face Shield recommended
 OTHER PROTECTIVE
 EQUIPMENT..... HMIS Personal Protection: B: Safety glasses and
 Gloves.

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SECTION IX - SPECIAL HANDLING AND DOT

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HANDLING AND STORAGE..... Store away from oxidizers or materials bearing a
 yellow "DOT" label. 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.

HAZARD CLASS..... COMBUSTIBLE LIQUID, N.O.S., NA1993

DOT SHIPPING NAME..... Drums: Not Regulated
 Bulk: Combustible Liquid n.o.s., 2, NA1993,PGIII
 (contains 2-ethylhexanol)

REPORTABLE QUANTITY (RQ). None

UN NUMBER..... None

NA #..... NA 1993

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..... Glen White,
 Scientific Information Services (817) 560-4631

REVISED DATE..... October 21, 1993

THIS PRODUCT'S 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 MATERIALS IN THIS PRODUCT ARE PRODUCED IN COMPLIANCE WITH FEDERAL LAW
 94-469. (ALSO KNOWN AS THE "TOXIC SUBSTANCES CONTROL ACT" OF 1976.)

DeFoamer KC1

TRADE NAME..... DeFoamer KC1

SIGNAL WORD..... WARNING!

STATEMENT OF HAZARD..... COMBUSTIBLE
CAUSES IRRITATION

DOT LABEL REQUIRED..... Combustible Liquid n.o.s.

MATERIAL SAFETY DATA SHEET

MSDS NUMBER: 110
 PART NUMBER: DE-110-W
 PRODUCT NAME: Enviro-Chem DEFOAM
 CAS NUMBER: -0
 CHEMICAL NAME: Alcohol Mixture

SECTION I

MANUFACTURER: Enviro-Chem

ADDRESS: P.O. BOX 668
 HOBBS, NM 88241

EMERGENCY TELEPHONE NUMBER: (505)393-1917

INFORMATION TELEPHONE NUMBER: (505)393-1917

DATE PREPARED: 07/05/96

HMIS RATINGS:

HEALTH: 2
 FIRE: 3
 REACTIVITY: 0
 PERSONAL PROTECTION: J



SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

CAS NUMBER	HAZARDOUS COMPONENT	SUB-		SARA		OSHA PEL	ACGIH TLV	OTHER LIMITS	
		NTP	IARC	PART/Z	313			RECOMMENDED	PERCENT
67-56-1	Methanol	?	?	?	Y	200 ppm	200 ppm	84 - 86	
104-76-7	Ethylhexanol	?	?	?	N	NI	NI	13 - 15	

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT	147 F.	SPECIFIC GRAVITY (H2O = 1)	0.80822
VAPOR PRESSURE (mm Hg.)	NI	MELTING POINT	NI
VAPOR DENSITY (AIR = 1)	NI	EVAPORATION RATE (Butyl Acetate = 1)	NI

SOLUBILITY IN WATER: Highly Dispersable

APPEARANCE AND ODOR: Clear Colorless Liquid, Alcohol Odor

OTHER INFORMATION:

Viscosity Units = NI pH = NI
 Freezing Point = NI Dry Point = NI

Density (Lb./Gal.) = 6.724

DANGER

Physical Hazards:-
 Flammable Liquid (Contains Methanol)

Generic Name:- Alcohol

UN/NA Number:- UN 1993

DOT Response Number:- 28

DOT Proper Shipping Name:- Flammable Liquid, n.o.s.

DOT Hazard Class:- 3

DOT Packing Group:- III

DOT/CERCLA RQ:- 5750 Lbs. (Methanol)

This product contains chemicals which are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986. The corresponding CAS numbers and percent by weight are listed above.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 54 F.

FLAMMABLE LIMITS: LEL: 6 % UEL: NI

EXTINGUISHING MEDIA: Dry chemical, Co2, Alcohol Foam, Sand/Earth, Water Spray, Water Fog.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA (Continued)

SPECIAL FIRE FIGHTING PROCEDURES:

Do not enter fire area without proper protection - see Section V - decomposition products possible.

Fight fire from safe distance / protected location.

Heat may build pressure / rupture closed containers, spreading fire, increasing risk of burns / injuries.

Use water spray / fog for cooling.

Notify authorities if liquid enters sewer / public waters.

UNUSUAL FIRE FIGHTING PROCEDURES:

Releases vapors at normal ambient temperatures. When mixed with air and exposed to ignition source, vapors can burn in open or explode if confined. Vapors may be heavier than air, may travel long distances along ground before igniting / flashing back to vapor source.

Vapors may settle and concentrate in low areas.

This material may produce a floating fire hazard in extreme conditions.

SECTION V - REACTIVITY DATA

STABILITY: Stable under normal conditions.

INCOMPATIBILITY (MATERIALS TO AVOID):

Strong Oxidizing Agents, such as Hydrogen Peroxide, Bromine, And Chromic Acid.
Strong Inorganic Acids.
Heat, sparks, open flames, and elevated temperatures.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS:

Incomplete combustion may release poisonous Carbon Monoxide, Carbon Dioxide and various Hydrocarbons.

HAZARDOUS POLYMERIZATION:

Not expected to occur.

SECTION VI - HEALTH HAZARD DATA

ROUTE(S) OF ENTRY: Inhalation, Skin Absorption, Skin Contact.

HEALTH HAZARDS (ACUTE AND CHRONIC):

Inhalation:-

Excessive inhalation of vapors can cause nasal and respiratory irritation, Central Nervous System effects, including dizziness, weakness, fatigue, nausea, headache and possible unconsciousness, and even death.

Eye Contact:-

Exposure causes eye irritation. Symptoms may include stinging, tearing, redness and swelling.

Skin Absorption:-

Skin absorption may contribute to the overall absorption of this material.

Skin Irritation:-

Exposure may cause mild irritation. Prolonged or repeated exposure may dry the skin. Symptoms may include redness, burning, drying and cracking.

Ingestion:-

Swallowing can cause gastrointestinal irritation, nausea, vomiting, diarrhea, blindness and death.

SIGNS AND SYMPTOMS OF EXPOSURE:

Overexposure to this material (or its components) has been suggested as a cause of the following effects in laboratory animals, and may aggravate pre-existing disorders of these organs in humans:

Liver abnormalities, kidney damage, eye damage, lung damage, brain damage and nervous system damage.

Overexposure to this material (or its components) has been suggested as a cause of the following effects in humans, and may aggravate pre-existing disorders of these organs:

Eye damage.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

This material or its emissions may affect the central nervous system and/or aggravate pre-existing disorders. Prolonged observation may be indicated.

EMERGENCY AND FIRST AID PROCEDURES:

Inhalation:-

If overcome by exposure, remove victim to fresh air immediately. Give oxygen or artificial respiration as needed. Obtain emergency medical attention. Prompt action is essential.

SECTION VI - HEALTH HAZARD DATA (Continued)

Eye Contact:-

In case of eye contact, immediately rinse with clean water for 20 to 30 minutes. Retract eyelids often. Obtain emergency medical attention.

Skin Contact:-

Immediately remove contaminated clothing. Wash skin with mild soap and water. Launder contaminated clothing before re-use. Discard shoes saturated with this product.

Ingestion:-

If swallowed, give 2 glasses of water and induce vomiting by either giving Ipecac syrup or by placing finger at back of throat if victim is completely conscious and alert. Obtain emergency medical attention immediately.

Emergency Medical Treatment Procedures:-

Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Continue to rinse eyes with clean water for 20 to 30 minutes, retracting eyelids often. Contact ophthalmologist immediately.

Treat burns or allergic reactions conventionally after decontamination.

Note to Physicians:

This product contains methanol. Methanol is metabolized to formaldehyde and formic acid. These metabolites may cause metabolic acidosis, visual disturbances and blindness. Since metabolism is required for these toxic symptoms, their onset may be delayed from 6 to 30 hours following ingestion. Ethanol competes for the same metabolic pathway and has been used as an antidote. Methanol is effectively removed by hemodialysis.

OTHER HEALTH WARNINGS:

The toxicological and carcinogenic properties of this material have not been fully investigated. Handle accordingly, avoiding contact.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Equip responders with proper protection (see Section VIII).

SMALL SPILL:-

Absorb liquid on paper, vermiculite, floor absorbent, or other absorbent material, and transfer to hood.

LARGE SPILL:-

Provide adequate ventilation. Eliminate all ignition sources (flares, flames (including pilot lights) and electrical sparks). Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Use water spray to disperse vapors and protect involved personnel and to reduce flammability. Stop spill at source, dike area ahead of spill to prevent spreading, pump liquid into salvage tank. Remaining liquid may be taken up on sand, clay, earth, floor absorbent, or other absorbent material and placed in covered containers, if possible, then labeled for disposal.

Prevent run-off into sewers, streams, or other bodies of water. If run-off occurs, notify proper authorities, as required, that a spill has occurred.

WASTE DISPOSAL METHOD:

Comply with Federal / State / Local regulations for disposal. Contact State and Federal regulators to determine whether the material should be classified as a hazardous waste or industrial waste and handled accordingly. Use licensed transporter and disposal facility.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

For transport, handling, and storage, use polyethylene, plastic, lined steel, or stainless steel. Store in tightly closed containers in cool, dry, isolated and well ventilated area away from heat, sources of ignition and incompatible materials. Use non-sparking tools and explosion-proof equipment. Ground lines, containers, and other equipment used during transfer to reduce possibility of a static induced spark. Do not 'switch' load (load into containers which previously contained gasoline or other low flash material) because of possible accumulation of a static charge resulting in a source of ignition.

Use good personal hygiene practices.

Containers of this material may be hazardous when emptied, since emptied containers retain product residues (vapor, liquid, and/or solids), all hazard precautions given in the data sheet must be observed.

Store drums with bungs closed in upright position.

OTHER PRECAUTIONS:

Wash thoroughly after handling.

Do not get in eyes, on skin or clothing.

Do not breathe dust, vapor, mist, or gas.

Keep container closed when not in use.

Empty container may contain hazardous residues.

SECTION VIII - CONTROL MEASURES

VENTILATION REQUIREMENTS:

Either local exhaust or general room ventilation is usually required.

PERSONAL PROTECTIVE EQUIPMENT:

Respiratory Protection:-

If exposure can exceed the PEL/TLV, use only NIOSH/MSHA approved air-purifying or supplied air respirator operated in a positive pressure mode per the NIOSH/OSHA 1981 Occupational Health Guidelines for chemical hazard.

Eye Protection:-

Eye protection, including both chemical splash goggles and face shield when possibility exists for eye contact due to spraying liquid or airborne particles. Contact lenses must not be worn.

Skin Protection:-

Impervious protective apron with gloves, boots, and full head and face protection must be worn. The equipment must be cleaned thoroughly after each use.

Other Hygienic Practices:-

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet facilities. Shower after work using plenty of soap and water.

Other Work Practices:-

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Promptly remove soiled clothing / wash thoroughly before reuse.

SECTION IX - ADDITIONAL INFORMATION

ADDITIONAL MANUFACTURER WARNINGS:

For Industrial Use Only.
Keep out of reach of children.
Failure to use caution may cause serious injury or illness.
Never siphon by mouth.

OTHER PRECAUTIONS AND COMMENTS:

Disclaimers:-

Some of the information presented and conclusions drawn herein are from sources other than direct test data on the product itself. The information in this MSDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, expressed or implied, regarding its correctness or results to be obtained from the use thereof.

The conditions or methods of handling, storage, use, and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of, or in any way connected with the handling, storage, use, or disposal of the product.

This MSDS was prepared, and is to be used, only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

This MSDS has been prepared in accordance with the requirements of the OSHA Hazard Communication Standard (29 CFR 1200).
