

MIGHTY BOND

V. Health Hazard Data

Threshold Limit Value 200 ppm (500 mg/m³) TWA

Signs and Symptoms of Exposure:

1. Acute Overexposure Vapor irritates eyes, nose and throat. Liquid may damage eye tissue.
2. Chronic Overexposure Headache, dizziness, skin dermatitis, anesthetic nature.

Medical Conditions Generally Aggravated by Exposure N/A

Primary Routes of Entry:

- | | |
|---|-----------------------------|
| 1. Oral LD ₅₀ 5 gm/kg (rat) | 4. Eye Irritation Irritant |
| 2. Dermal LD ₅₀ 3.2 gm/kg (rabbit) | 5. Skin Irritation Irritant |
| 3. Inhalation LD ₅₀ N/A | |

Chemical Used as Carcinogen or Potential Carcinogen

National Toxicology Program Yes No

I.A.R.C. Monographs Yes No

OSHA Yes No

OSHA Permissible Exposure Limit 200 ppm

ACGIH Threshold Limit Value 200 ppm

Other Exposure Limit Used N/A

Emergency and First Aid Procedures:

1. Inhalation Remove victim to fresh air and provide oxygen if breathing is difficult.
2. Eyes Flush eyes with copious quantities of water while holding eye lids open. If irritation persists, consult a physician.
3. Skin Wash skin with soap and water. Use emollient skin creams. If irritation persists, consult a physician.
4. Ingestion Do not induce vomiting. Get medical attention.

VI. Reactivity Data

Stability — Unstable Stable

Hazardous Polymerization — May Occur Will Not Occur

Conditions to Avoid

high heat, spark or open flames

Incompatibility (Materials to Avoid):

Strong Oxidizing Agents

Hazardous Decomposition Products

N/A

VII. Spill or Leak Procedures

Steps to be Taken in Case Material is Released or Spilled Eliminate all sources of ignition. Isolate the spill area and clean up with absorbent material. Flush area with water and collect the spill in a waste container for disposal.

Waste Disposal Recover any free liquid with suitable absorbent. Consult with state and local authorities for proper disposal procedure.

VIII. Special Protection Information

Respiratory Protection Where concentration in air exceed threshold limit, NIOSH APPROVED RESPIRATOR
Ventilation Face velocity of 60 fpm (minimum) if used in confined spaces

Protective Gloves Chemical resistant gloves

Eye Protection Chemical splash goggles or face shield

Other Protective Equipment Usually not needed

IX. Special Precautions

Precautions to be Taken in Handling and Storing

Keep container closed and store in a cool dry place. Keep away from heat, sparks and open flames

Other Precautions

All handling equipment should be electrically grounded

Walter Sorbuncy
WALTER SORBUNCY
Great Northern Research,
September 21, 1989

WATER CONDITIONER

PRODUCT IDENTIFICATION

Section I

Waterbed conditioner

MANUFACTURER: Avant Industries, Inc. BUSINESS PHONE: (312) 326-3500
ADDRESS: 320 E. 21st St. GENERIC DESCRIPTION: Waterbed Treatment
Chicago, IL 60616 DATE OF ISSUE: January 1, 1990

HAZARDOUS COMPONENTS

Section II

Mixed alkyl aryl ammonium chlorides.....CAS# Proprietary.....5-10%
OSHA PEL and ACGIH TLV not established. Oral rat LD₅₀ = 366mg/kg

Ethanol (denatured).....CAS# 64-17-5.....(2%
OSHA PEL/ACGIH TLV = 1000ppm, 1900mg/m³. Dermal rabbit LD₅₀ > 2g/kg;
Oral rat LD₅₀ = 13.7g/kg; Rat LC₅₀ > 16000ppm/8hr

PHYSICAL/CHEMICAL CHARACTERISTICS

Section III

APPEARANCE: Free-flowing, clear, colorless liquid
ODOR: Mild, amine
SPECIFIC GRAVITY: 0.99; 8.3 Lbs./Gal.
EVAPORATION RATE: Like water
WATER SOLUBILITY: Complete

MELTING POINT: <32°F
BOILING POINT: <112°F
VAPOR PRESSURE: Unknown
VAPOR DENSITY: 2water

FIRE & EXPLOSION DATA

Section IV

FLAMMABILITY: None
FLASH POINT: None
OTHER FIRE/EXPLOSION HAZARDS: None known
HAZARDOUS COMBUSTION PRODUCTS: Common oxides of carbon and nitrogen.
EXTINGUISHING MEDIA: Water, foam, CO₂, dry chemical.
LOWER EXPLOSION LIMIT: Unknown
UPPER EXPLOSION LIMIT: Unknown

REACTIVITY DATA

Section V

CHEMICAL/PHYSICAL STABILITY: Completely stable at 40-80°F.
POTENTIAL INCOMPATIBILITIES: None known.
CONDITIONS TO AVOID: None known.
HAZARDOUS DECOMPOSITION: None known.
HAZARDOUS POLYMERIZATION: Will not occur.

HEALTH HAZARD DATA**Section VI**

ROUTE(S) OF ENTRY: Eyes, skin, ingestion.
CARCINOGENIC LISTING(S): None (per IARC, NTP or OSHA).
EFFECTS OF OVEREXPOSURE:
EYES/SKIN: Burning, reddening; severe eye damage.
INGESTION: Burning of mouth, throat, stomach. May be fatal.
AGGRAVATED MEDICAL CONDITIONS: Skin, eye disorders.
FIRST AID:
EYES/SKIN: Thoroughly & repeatedly flush with water.
INGESTION: Drink large amounts of milk or clean water.
Do NOT induce vomiting. If vomiting occurs, keep head below hips to prevent aspiration.
EMERGENCY: *Call physician immediately in case of eye contact, ingestion or if irritation persists.*

SAFE HANDLING/STORAGE/DISPOSAL**Section VII**

D.O.T. HAZMAT SHIP NAME/I.D.: None
D.O.T. HAZARD CLASS/PLACARD: None
PROPER STORAGE: Keep all containers tightly closed and stored in cool and well ventilated area.
SPILLS or LEAKS: Secure area with generous ventilation. Pick up with mop; then containerize and seal into plastic containers. Rinse area and implements thoroughly with water.
WASTE DISPOSAL: Subject to federal, state and local statutes.
OTHER CAUTIONS: Keep out of reach of children.

PERSONAL PROTECTION & CONTROL MEASURES**Section VIII**

RESPIRATORY: None required with good ventilation. If needed, use NIOSH approved respirator for organic vapor.
VENTILATION: Must be adequate to ensure comfortable usage.
GLOVES: Chemically impervious gloves recommended while handling.
EYE PROTECTION: Chemical goggles or face shield recommended while handling.
OTHER PROTECTION: Generally unnecessary with normal use and exposure levels.
OTHER: Follow normal industrial hygiene practices.