

Material Safety Data Sheet

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I PRODUCT INFORMATION

Trade Name: "BOXER"

Chemical Name: Proprietary

Synonym: **Product #100**

Emergency Information: Adhesives and Chemicals, Inc. – 570-654-6735

Chemtrec: 800-424-9300

II COMPOSITION, INFORMATION ON INGREDIENTS

Proprietary: No

Cyclohexanone (SARA III)

Ingredient Sequence Number: 01

Percent: ~ 77%

CAS No: 108-94-1

OSHA PEL: S, 25 ppm

ACGIH TLV: S, 25 ppm 9293

Other Recommended Limit: NK (Not Known)

Proprietary: No

Vinyl Chloride-Vinyl Acetate-Maleic Acid Terpolymer

Ingredient Sequence Number: 02

Percent: 14

CAS Number: 9005-09-8 - >97% w/w as 2-Butenedioic Acid (Z)-, Polymer with Chloroethene and Ethenyl Acetate. Contains: Vinyl Acetate, CAS No.:108-05-4– 0.1% w/w

TLV: none established

Proprietary: No

Vinyl Chloride-Vinyl Acetate Copolymer

Ingredient Sequence Number: 03

Percent: 6

CAS Number: 9003-22-9 – >98% w/w as asctic acid ethenyl ester, polymer with Chloroethene

OSHA PEL, STEL: 5mg/m3 TWA8 – 15mg/m3 TWA8 as nuisance dust

ACGIH: 3mg/m3 – 10 mg/m3 as inhalable particulate matter, containing no asbestos and crystalline silica < 1%

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Product Name: Product #100

Proprietary: No

Plasticizer

Ingredient Sequence Number: 03

Percent: 2

CAS Number: 117-81-7 – as Phthalic acid, bis(2-Ethylhexyl) Ester

TWAEV: 5mg/m³

LD50: ORAL 1500 SKIN 4000

LC50 ppm: INHALATION N/K (not known)

Proprietary: No

Liquid epoxy resin

Ingredient Sequence Number: 04

Percent: < 1

CAS Number: 1675-54-3 as Bisphenol A Diglycidyl Ether

OSHA, ACGIH, NIOSH, NFPA Hazard Rating: None

Other Data: N/K

III PHYSICAL / CHEMICAL CHARACTERISTICS

Appearance and Odor: Transparent, sl yellow tint, thin liquid with a Peppermint and Ketone odor

Boiling Point: 314 deg F

Vapor Pressure @ 50 deg C: 161.29 @55 deg C: 171.45

Vapor Density (Air=1): N/K

Specific Gravity: 0.9944

Solubility in Water: Insoluble

Percent Volatiles, w/w: ~70.5

IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Test Method): 135 deg F Closed Cup (ASTM D93)

Auto Ignition Temperature: N/K

Flammable Limits: N/K LEL: N/K UEL: N/K

Extinguishing Media: CO₂, Foam, Dry Chemical

Special fire fighting Procedures: Use SCBA and protective clothing

Unusual Fire and Explosive Hazards: Hydrogen Chloride will form under fire conditions.

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V REACTIVITY DATA

Stability: Yes

Hazardous Decomposition Products: CO, CO2, N, SMOKE PARTICLES

Hazardous Polymerization Occurs: No

Hydrogen Chloride will form under fire conditions.

VI HEALTH HAZARD DATA

LD50 – LC Mixture: N/K

Signs/Symptoms of Overexposure: INHALATION: DIZZINESS, WEAKNESS, FATIGUE, NAUSEA, HEADACHE, VOMITING, DIARRHEA

Emergency/First Aid Procedures: EYE CONTACT: FLUSH EYES WITH LOW PRESSURE COLD WATER FOR 15 MINUTES. CONSULT A PHYSICIAN.SKIN CONTACT: WAS WITH MILD SOAP AND WATER AND RINSE UNTIL ALL EVIDENCE OF CHEMICAL HAS DISAPPEARED.INHALATION: MOVE PATIENT TO FRESH AIR. IF VICTIM IS NOT BREATHING, ADMINISTER ARTIFICIAL RESPIRATION, CONSULT A PHYSICIAN IMMEDIATELY.IF SWALLOWED: DO NOT INDUCE VOMITING. IF CONSCIOUS HAVE PATIENT DRINK 2 GLASSES OF MILK/WATER. CALL A PHYSICIAN IMMEDIATELY.

Carcinogenicity: NTP, IARC, OSHA: No

Explanation of Carcinogenicity: N/K

Medical Conditions Aggravated By Exposure: Skin Disease, COPD

VII PRECAUTIONS FOR SAFE HANDLING AND USE

Steps If Material Released /Spilled: Avoid open flames, sparks, and excessive heat.

Provide adequate ventilation. Use absorbant (sawdust, sand, etc.) to dam spill area. Avoid spilling by capping container when no in use.

Neutralizing Agent: N/K

Waste Disposal Method: LIQUID – Mix with absorbant until consumed. DRIED MATERIAL: Peel residue from surface. Treat as a HYDROCARBON.

VIII PRECAUTIONS-HANDLING/STORING

AVOID OPEN FLAMES SPARKSOURCES, SPLASH SPILLING, EXCESSIVE HEAT, KEEP CONTAINERS TIGHTLY CLOSED WHEN NOT IN USE.

CAREFULLY READ ALL DIRECTIONS AND CAUTIONS ON PRODUCT CONTAINER.

IX CONTROL MEASURES

Respiratory Protection: N/K

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IX CONTROL MEASURES – CONTINUED

Ventilation: Product should be used OUTDOORS whenever possible. If needed in an INDOOR application, mechanical ventilation should be provided (explosion proof equipment).

Protective Gloves: PVA, Nitrile Rubber, Polyethylene

Eye Protection: Safety Glasses/Goggles

Other Protective equipment: N/K

Work Hygienic Practices: WASH HANDS BEFORE EATING, DO NOT SMOKE OR USE NEAR OPEN FLAME.

Supplementary Safety & Health Data: N/K

X TRANSPORTATION DATA

Transportation Data Review Date: 01-28-03

DOT PSN Code: AFR

DOT Proper Shipping Name: ADHESIVES

DOT Class: 3

DOT ID Number: UN1133

DOT Pack Group: II

DOT Label: FLAMMABLE LIQUID

DOT/DOD Exemption Number: N/K

XI DISPOSAL DATA

ALL WASTE, SLUDGE, MATERIAL COLLECTED FROM SPILLS IS TO BE DEPOSITED IN PROPER RECEPTACLES AND DISPOSED OF AS MANDATED BY FEDERAL, STATE, AND LOCAL LAWS. KEEP MATERIAL OUT OF TRASH, SEWER, STREAMS, PONDS, LAKES, AND DRAINAGE SYSTEMS.

XII REVIEW AND REVISION

MSDS reviewed: 04-17-03, supercedes 04-23-99

All sections have been reviewed and revised according to information currently available. It is provided in good faith and is believed to be correct as of the date compiled. No representation is made as to comprehensiveness or accuracy of the information. It is expected that individuals receiving the information will exercise their independent judgment in determining its appropriateness for a particular purpose. Accordingly, Union Laboratories, Inc. will not be responsible for damages of any kind resulting from the use or reliance upon such information.

REFERENCES:

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3. "Emergency Planning and Notification, " 40 CFR Part 355. Washington, Environmental Protection Agency, 52 FR 13395,m Apr. 22, 1987.
4. "Hazardous Chemical Reporting: Community Right-To-Know, " 40 CFR Part 370. Washington, Environmental Protection Agency, 52 FR 38364, Oct. 15, 1987.
5. "Toxic Chemical Release Reporting: Community right-To-Know," 40 CFR Part 372. Washington, Environmental Protection Agency, 53 FR 4525, Feb. 16, 1988.
6. "Significant New Uses of Chemical Substances," 40 CFR Part 371. Washington, Environmental Protection Agency, 53 FR 28358, July 27, 1988.
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11. Kolp, P., Williams, P., and Burton R., "Assessment of the Accuracy of Material Safety Data Sheets," American Industrial Hygiene Association Journal 56 (2):178-183 (1995).
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