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Material Safety Data Sheet *Endurabond Primer #1*

1. IDENTIFICATION OF THE SUBSTANCE AND COMPANY

Trade Names:	Endurabond Primer #1	Emergency Number:	800-424-9300
Description:	Rubber/Solvent Solution	International Number:	202-483-7616
Company Identification:	Blair Rubber Company 5020 Panther Parkway Seville, OH 44273	Information Number:	330-769-5583

2. COMPOSITION/INFORMATION ON THE COMPONENTS

Hazardous Components	CAS No.	Approximate %
Xylene	1330-20-7	35
Methyl ethyl ketone	78-93-3	25
Isopropanol	67-63-0	15
Ethyl benzene	100-41-4	10
Epichlorohydrin	106-89-8	2
Non-hazardous	Proprietary	13

3. HAZARDS IDENTIFICATION

HMIS HEALTH: 2 FLAMMABILITY: 3 REACTIVITY: 0 PERSONAL PROTECTION: H

* - Indicates a chronic hazard. See Section 3.

PRIMARY ROUTES OF EXPOSURE: Eye, Skin, Inhalation (breathing), Ingestion (Swallowing)

EYE CONTACT: May cause slight to mild irritation.

SKIN CONTACT: May cause slight to mild irritation. May be absorbed through the skin in harmful amounts. May cause dermatitis.

INHALATION (Breathing): Possible irritation of the respiratory system can occur causing a variety of symptoms such as dryness of the throat, tightness of the chest, and shortness of breath. May cause central nervous system depression characterized by the following progressive steps: headache, dizziness, staggering gait, confusion, unconsciousness or coma.

INGESTION (Swallowing): Harmful if swallowed. Ingestion is not an expected route of entry in industrial or commercial uses.

TARGET ORGANS/CHRONIC EFFECTS: Liver, kidneys. Nervous system. Lungs and respiratory system. Skin. IARC and NTP have determined that there is sufficient evidence for carcinogenicity of epichlorohydrin to animals and inadequate evidence for carcinogenicity in humans. Ethylbenzene has been classified by IARC as a possible human carcinogen (Group 2B).

EMERGENCY OVERVIEW:

GREEN LIQUID, WITH SOLVENT ODOR. FLAMMABLE LIQUID AND VAPOR. INHALATION MAY CAUSE DIZZINESS, HEADACHE AND INCOORDINATION. HARMFUL IF ABSORBED THROUGH SKIN. MAY CAUSE RESPIRATORY TRACT IRRITATION. MAY CAUSE SKIN AND EYE IRRITATION. VAPOR HARMFUL; MAY AFFECT THE BRAIN OR NERVOUS SYSTEM CAUSING DIZZINESS, HEADACHE OR NAUSEA. See sections 3, 5 & 6.

4. FIRST AID MEASURES

EYE CONTACT: Flush eyes with water for at least 15 minutes. Get prompt medical attention.

SKIN CONTACT: Remove contaminated clothing and shoes. Wash affected area with soap and water. If irritation develops, consult a physician. Wash contaminated clothing separately before reuse.

INHALATION (Breathing): Remove to fresh air. If symptoms develop, seek immediate medical attention. Restore and support continued breathing.

INGESTION (Swallowing): Seek medical attention. Do not induce vomiting. Give victim one or two glasses of water or milk. Call physician or poison control center immediately for further instructions. Never give anything by mouth to an unconscious person.

5. FIRE - FIGHTING MEASURES

Flash Point: 42° F (6° C)

Autoignition.....: Not Determined

Explosive Limits: LEL 1% UEL 12.7%

OSHA Flammable Liquid: Class IB

HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS: Smoke, soot, and toxic/irritating fumes (i.e., carbon dioxide, carbon monoxide, etc.). Formaldehyde and/or other aldehydes. Hydrogen chloride.

FIRE AND EXPLOSION HAZARDS: Flammable liquid and vapor. Keep containers closed tightly. High temperatures can cause sealed containers to rupture due to a buildup of internal pressure. Cool with water. Vapors can travel to a source of ignition (flame, electric motor, hot surface, cigarette, etc.) and flash back. During a fire, irritating and highly toxic gases may be generated during combustion or decomposition.

EXTINGUISHING MEDIA: SMALL FIRES: Dry chemical, carbon dioxide, water spray, or foam.

LARGE FIRES: Water, fog, or alcohol foam. Water spray may be ineffective; use to keep containers cool.

FIRE FIGHTING PROCEDURES/EQUIPMENT: Fire fighters and others who may be exposed to the products of combustion should be equipped with NIOSH-approved positive pressure self-contained breathing apparatus (SCBA) and full protective clothing.

6. ACCIDENTAL RELEASE MEASURES

EVACUATION: Isolate hazard areas. Keep unnecessary and unprotected personnel from entering. Eliminate all sources of ignition (flame, hot surfaces and electrical, static or frictional sparks). Avoid breathing vapor or spray mists. Do not handle until all safety precautions on this MSDS have been read and understood.

CONTAINMENT: Safely stop discharge. Contain material, as necessary, with a dike or barrier. Stop material from contaminating soil, or from entering sewers or bodies of water.

ACCIDENTAL RELEASE MEASURES CONTINUED

CLEAN-UP/PERSONAL PROTECTION EQUIPMENT: Appropriate safety measures and protective equipment should be used. Use supplied air respirator or self-contained breathing apparatus in enclosed spaces or if airborne exposure limits can be exceeded. See Section 8.

COLLECTION AND DISPOSAL: Stop discharge, if safe to do so. Use proper protective equipment. Cover spills with absorbent clay or sawdust and place in closed chemical waste containers. Dispose of according to applicable local, state and federal regulations.

REPORTING: Spills of this material in excess of a component's RQ must be reported to the National Response Center (1-800-424-8802) and to the appropriate state and local emergency response organizations.

Xylene	RQ = 100 LB
Methyl ethyl ketone	RQ = 5000 LB
Ethyl benzene	RQ = 1000 LB
Epichlorohydrin	RQ = 100 LB

7. HANDLING AND STORAGE

STORAGE CONDITIONS: Store in cool, dry, well ventilated area away from heat, ignition sources, and direct sunlight. Keep containers tightly closed. **WARNING:** Hot organic chemical vapors or mists can suddenly and without warning combust when mixed with air. Ignition can occur at typical elevated temperature process conditions. Any use in such process should be evaluated thoroughly to assure safe operating conditions. Refer to OSHA 29 CFR Part 1910.106 "Flammable and Combustible Liquids" for specific requirements. **WARNING:** Application of this product within a tank or other confined space must comply with the requirements of OSHA Permit – Required Confined Spaces Standard.

TRANSFERS: Containers should be supported and grounded before opening, dispensing, mixing, pouring, and emptying. Open with non-sparking tools. If container is warm, open bung slowly to release internal pressure.

PERSONAL HYGIENE: Wash thoroughly after handling, especially before eating, drinking, smoking, and using restroom facilities. Wash contaminated goggles, face shield, and gloves. Professionally launder contaminated clothing before re-use.

EMPTY CONTAINER PRECAUTIONS: ATTENTION! This container hazardous when empty. Follow label warnings even after container is emptied, since empty containers may retain produce residues. Do not use heat, sparks, open flames, torches, cigarettes on or near empty container. DO NOT re-use container.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE GUIDELINES:

	ACGIH-TWA	STEL	OSHA-TWA	Ceil	Units	Skin
Xylene	100	150	100	N.E.	ppm	
Methyl ethyl ketone	200	300	200	N.E.	ppm	
Isopropanol	400	500	400	N.E.	ppm	
Ethyl benzene	100	125	100	N.E.	ppm	
Epichlorohydrin	2	N.E.	5	N.E.	ppm	S

N.E. – Not Established

S. – Skin Designation

C - Ceiling

ENGINEERING CONTROLS/VENTILATION: Local exhaust ventilation is recommended when vapors, mists, or dusts can be released in excess of established airborne exposure limits (TLVs or PELs). **CAUTION:** Solvent vapors are heavier than air and collect in lower levels of the work area. Sufficient ventilation (using explosion-proof equipment) should be provided to prevent flammable vapor-air mixtures from accumulating.

EXPOSURE CONTROLS/PERSONAL PROTECTION CONTINUED

EYE PROTECTION: Wear chemical splash goggles. An eye wash facility should be readily available.

SKIN PROTECTION: Wear protective clothing and appropriate impervious gloves. Because a variety of protective gloves exist, consult glove manufacturer to determine the proper type for a specific operation.

RESPIRATORY PROTECTION: Avoid breathing vapor and/or mists. Wear NIOSH/MSHA approved equipment. Determine the appropriate type by consulting the respirator manufacturer. High airborne concentrations may necessitate the use of self-contained breathing apparatus (SCBA) or a supplied air respirator. Respiratory protection programs must be in compliance with 29 CFR 1910.134. Organic vapor/acid gas respirator.

HYGIENIC PRACTICES: Wash hands before eating, smoking, or using toilet facility. Do not smoke in any chemical handling or storage area. Food or beverages should not be consumed anywhere this product is handled or stored. Wash thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance.....: Green	Odor.....: Solvent	Physical State.....: Liquid
Solubility.....: Insoluble	pH.....: Not Applicable	VOC Material.....: 5.91 lbs./gal. (708 g/l)
Specific Gravity...: 0.94	% Solids w/w: 26	Vapor Density.....: Heavier than air
Solubility in H ₂ O: Insoluble	Boiling Range: 175-282 F	Density.....: 7.8 lbs./gal.

Note: The physical data presented above are typical values and should not be construed as a specification.

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable under normal conditions of use.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: High temperatures. Sources of ignition.

INCOMPATIBILITY WITH OTHER MATERIALS: Oxidizers, acids, strong bases, water.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon dioxide, carbon monoxide, chlorine, hydrogen chloride, Phosgene.

11. TOXICOLOGY INFORMATION

No product toxicological information is available.

12. ECOLOGICAL INFORMATION

No data is available on this product.

13. DISPOSAL CONSIDERATIONS

DISPOSAL: When a decision is made to discard this material as supplied, it meets RCRA's characteristic definition of ignitability. The toxicity characteristic (TC) has not been evaluated by the Toxicity Characteristic Leaching Procedure (TCLP). Disposal should be done in accordance with Federal (40 CFR Part 261). State and Local environmental control regulations. If waste is determined to be hazardous, use licensed hazardous waste transporter and disposal facility.

DISPOSAL CONSIDERATIONS CONTINUED

GENERAL STATEMENTS: Federal regulations may apply to empty container. State and/or local regulations may be different.

GENERAL RECOMMENDATIONS: Of the methods of disposal currently available it is recommended that an alternative be selected according to the following order of preference, based upon environmental acceptability:

(1) recycle or rework, if feasible; (2) incinerate at an authorized facility; or (3) treat at an acceptable waste treatment facility.

SPECIAL INSTRUCTIONS: Be sure to contact the appropriate government environmental agencies if further guidance is required.

14. TRANSPORT INFORMATION

Weight (lb) Shipping Name: Adhesives	49	CFR	LATA	IMO
		Y	Y	Y
DOT Label.....: Flammable Liquid		UN/NA	ID NUM	: UN 1133
DOT Label No...: L279 -1		Emergency Response Guide Number: 127		
Hazard Class....: 3 (IATA/49 CFR) 3.2 (IMO)				
Packing Group...: II Consult transportation regulations for current regulatory information.		WHMIS Label....: In compliance except for the 16 headings.		

15. REGULATORY INFORMATION

FEDERAL:

This product is considered hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200).

SARA Title III - Section 311/312 - Hazard Categories:

Y - Fire Hazard
N - Sudden Release of Pressure Hazard
N - Reactivity Hazard
Y - Immediate (acute) Health Hazard
Y - Delayed (Chronic) Health Hazard
Ozone-Depleting chemicals - No regulated ingredients

SARA Section 302 Extremely Hazardous Materials: None

SARA Section 313 Toxic Chemicals:

Xylene	Ethyl benzene
Methyl ethyl ketone	Epichlorohydrin

CHEMICAL LISTING - Listed on the following Country's Chemical Inventories:

United States Toxic Substance Control Act
Chemical component (s) in this product are on the TSCA Section 8.

EXPORT NOTIFICATION - This product contains the following chemical substances subject to the reporting requirements of TSCA Section 12 (B) if exported from the United States: Isopropanol.

Canadian WHMIS CLASS: B2, D1A, D2A, D2B.

