

MATERIAL SAFETY DATA SHEET

FORM #29: LT 11: LACQUER RETARDER (BORTZ)

The following Material Safety Data Sheet (MSDS) is being provided pursuant to requirements of the Fed/OSHA (29 CFR 1910.1200) and Cal/OSHA (8 CCR 5194) Hazard Communication Standards. The health and hazards information given here is based on data believed to be accurate by Dunn-Edwards Corporation; we do not, however, assume any liability for the accuracy or completeness of this information. We neither suggest nor guarantee that any hazards mentioned are the only ones that may exist. All persons intending to rely on any recommendation, or to use any technique, equipment, or material mentioned should first satisfy themselves that they can meet all applicable safety and health standards.

The following MSDS supersedes any previously issued MSDS for the product covered. The reader is advised to destroy any obsolete MSDS and refer only to this MSDS.

MATERIAL SAFETY DATA SHEET

DUNN-EDWARDS CORPORATION
4885 EAST 52ND PLACE
LOS ANGELES, CA 90040-2828

DATE OF PREPARATION: 04/01/99

EMERGENCY TELEPHONE NUMBER:
(800) 733-3866, EXTENSION 2240

INFORMATION TELEPHONE NUMBER:
(323) 771-3330, EXTENSION 2240

SECTION I - PRODUCT IDENTIFICATION

MSDS FORM #29
PRODUCT CODE: LT 11
PRODUCT NAME: LACQUER RETARDER (BORTZ)

HMIS CODES: H F R PP
2* 3 0 H

U.S. DOT SHIPPING DESCRIPTION: PAINT RELATED MATERIAL, 3, UN1263, PG-II, FLAMMABLE LIQUID

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENT	CAS NUMBER	%WT	ACGIH	OSHA EXPOSURE LIMITS		STEL		VAPOR PRESS
			TLV/TWA PPM	TWA PPM	MG/M ³	PPM	MG/M ³	
Ethylene Glycol Monobutyl Ether	00111-76-2	45%	25	25	120	-	-	0.6 @ 68°F
Naphtha	08030-30-6	25%	-	100	400	-	-	55.0 @ 68°F
Toluene	00108-88-3	15%	100	100	375	150	560	22.0 @ 68°F
n-Amyl Acetate	00628-63-7	5%	100	100	525	-	-	4.5 @ 68°F
n-Butyl Acetate	00123-86-4	5%	150	150	710	200	950	8.0 @ 68°F
Xylenes	01330-20-7	<5%	100	100	435	150	655	5.1 @ 68°F

SECTION III - PHYSICAL AND CHEMICAL DATA

BOILING RANGE: 231-340°F
SPECIFIC GRAVITY (H₂O=1): 0.8
SOLUBILITY IN WATER: Partly Soluble.
APPEARANCE AND ODOR: Clear liquid with sharp chemical odor.

EVAPORATION RATE: Slower Than Ether.
VAPOR DENSITY: Heavier Than Air.
VOLATILE VOLUME: 100%

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION: Flammable Liquid - Class IB
FLASH POINT: 40°F (TCC) LEL: 1.0% UEL: 10.6%
EXTINGUISHING MEDIA: Foam, Alcohol Foam, CO₂, Dry Chemical, Water Fog.
UNUSUAL FIRE AND EXPLOSION HAZARDS: Handle as extremely flammable liquid. Vapor combines with air to form an explosive mixture that can be ignited easily by remote sources or static spark. Closed containers can develop internal pressure and may rupture when subjected to extreme heat.
SPECIAL FIREFIGHTING PROCEDURES: Use self-contained breathing apparatus to avoid inhalation of concentrated vapor. Avoid spreading burning liquid with water fog used for cooling purposes.

SECTION V - HEALTH HAZARD DATA

POTENTIAL ROUTES OF ENTRY / SIGNS AND SYMPTOMS OF EXPOSURE

INHALATION: Exposure to high vapor concentration may irritate mucous membranes and respiratory tract. Overexposure can cause central nervous system depression, loss of coordination, dizziness, headache, and nausea; unconsciousness and asphyxiation possible.
EYE CONTACT: Short term liquid or vapor contact may result in irritation, redness, and tearing.
SKIN CONTACT: Prolonged or repeated contact may cause drying of the skin, irritation, and dermatitis.
SKIN ABSORPTION: Prolonged or repeated widespread contact may result in absorption of solvents, causing dizziness, headache, and nausea.

INGESTION: May cause gastrointestinal irritation, nausea, vomiting, and diarrhea. Aspiration of vomit into the lungs may result in severe chemical pneumonitis and pulmonary edema/hemorrhage.
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Pre-existing eye, skin, respiratory, and central nervous system disorders, and unusual allergic sensitivity.

MSDS FORM #29, PAGE 2

CHRONIC OR DELAYED HEALTH HAZARDS: Long term overexposure may cause damage to central nervous system, respiratory system, eyes, skin, gastrointestinal tract, liver, spleen, and kidneys. May cause hemolysis (destruction of red blood cells), leading to possible liver and kidney damage.

CARCINOGENICITY: NTP? NO. IARC MONOGRAPHS? NO. OSHA REGULATED? NO.

EMERGENCY AND FIRST AID PROCEDURES: If affected by inhalation of vapor, move victim to fresh air. If not breathing, apply artificial respiration and call emergency medical care. For eye contact, flush eyes with fresh water for at least 15 minutes. If irritation persists, seek medical attention. For skin contact, wash thoroughly with soap and water. Remove any contaminated clothing. If swallowed, do not induce vomiting. Call emergency medical care.

SECTION VI - REACTIVITY DATA

STABILITY: Stable.

HAZARDOUS POLYMERIZATION: Will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS: Combustion can produce carbon monoxide and/or carbon dioxide.

CONDITIONS TO AVOID: Open flame, sparks, direct heat, high temperature, and poor ventilation.

INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers, acids and alkalis. May soften or dissolve some rubber and plastics.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING, STORAGE, AND DISPOSAL

PRECAUTIONS FOR HANDLING AND STORAGE: No smoking! Keep containers closed when not in use. Do not handle or store near heat, flame, or strong oxidizers, acids and alkalis. Store in cool, well-ventilated area. Rotate stock, use older material first. Inspect all containers for leaks.

STEPS TO TAKE IF MATERIAL IS RELEASED OR SPILLED: Extinguish all sources of ignition, ventilate enclosed areas, keep people away. Dike and absorb spilled liquid with inert material such as clay granules, sand, earth, or sawdust. Add water to saturate absorbent and mix thoroughly. Use rags to clean up small amounts of spilled material.

WASTE DISPOSAL METHOD: Collect contaminated absorbent material and rags into a suitable container, add water to cover waste. Dispose in accordance with all applicable local, state, and federal regulations.

SECTION VIII - CONTROL MEASURES FOR SAFE USE

RESPIRATORY PROTECTION: Wear organic vapor respirator (NIOSH/MSHA TC 23C or equivalent). If vapor concentration exceeds exposure limits, use air-supplied respirator (NIOSH/MSHA TC 19C or equivalent).

VENTILATION: For interior use, general mechanical ventilation may be sufficient to disperse vapor. Otherwise, open doors and windows or use portable fans to provide local exhaust. Ventilation equipment must be explosion-proof.

EYE PROTECTION: Use safety glasses, goggles, or face shield to protect eyes.

PROTECTIVE GLOVES: Use impermeable solvent-resistant gloves (e.g., neoprene) to avoid skin contact.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Impermeable headcovering and general protective clothing are recommended for protection as necessary.

WORK/HYGIENIC PRACTICES: Wash hands and face before eating. No smoking in or near area of use!

SECTION IX - SPECIAL CAUTIONS

Keep away from heat, flame, and sparks. Use non-sparking tools made of aluminum, brass, or copper. All electrical equipment must be explosion-proof. Ground and bond all metal containers and equipment. Use only with adequate ventilation or protection. Avoid breathing spray mist or vapor. Do not ingest. Avoid contact with skin. Close container after each use. Keep out of reach of children. Do not crush, puncture, cut, grind, or weld empty containers, which may retain product residues and ignitable vapor.

******* DISCLAIMER *******

THE INFORMATION CONVEYED ABOVE, ALTHOUGH OBTAINED FROM SOURCES WE CONSIDER RELIABLE, IS FURNISHED BY DUNN-EDWARDS CORPORATION WITHOUT ANY WARRANTY (WHETHER EXPRESS OR IMPLIED) AS TO ITS ACCURACY, ADEQUACY, OR APPLICABILITY TO ANY PARTICULAR NEEDS OR CIRCUMSTANCES.