

section 1 – Preparation / Product Information

manufactured for and supplied by:	telephone no:	(330) 798-9300
Harwick Standard Distribution Corporation	date prepared:	March 22, 2001
60 South Seiberling Street	preparer:	Health, Safety & Environment
P.O. Box 9360	product use:	Plasticizer
Akron, OH 44305-0360		

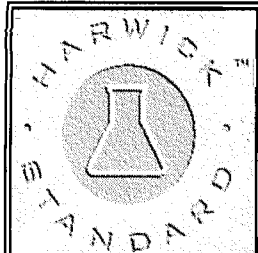
section 2 – Ingredients / Identity Information

components chemical identity/cas#	exposure limits			Toxicity LD50/LC50	amount %
	PEL	TLV	OTHER		
Tributoxyethyl Phosphate CAS #78-51-3	Not Established			LD50 rat/oral >5,000 mg/kg	90-100
2-Butoxyethanol CAS #111-76-2	Not Established				.001-.5
Tributyl phosphate CAS #126-73-8	Not Established				.001-3

section 3 – Physical / Chemical Characteristics

boiling point:	231°C @ 6 mm Hg	specific gravity:	1.012 - 1018
freezing point:	< -70°C	pH:	Not Determined
vapor pressure (mm Hg):	0.03 @ 150°C	odor threshold (ppm):	Not Determined
vapor density (AIR=1):	Not Determined	coef. water/oil dist.:	Not Determined
solubility in water	< 2g/l	evaporation rate:	< 1
appearance (physical state) and odor:		Liquid; Clear	
		Odor; Mild	

The information and recommendations contained herein are based upon data that are believed to be accurate and reliable. Application and performance information are provided only as a guide, since the conditions of use are beyond the control of Harwick Standard Distribution Corporation. Consequently, Harwick Standard makes no warranties, express or implied, with respect to the goods or use of the goods or the performance of the goods and makes no warranties of fitness for a particular purpose or merchantability. Buyer acknowledges that Harwick Standard will not be liable for consequential, incidental, direct or special damages arising, directly or indirectly, in respect to such goods or the use or failure thereof, whether based on breach of warranty, negligence, strict liability in tort or otherwise.



section 6 – Health Hazard Data

primary routes of exposure

inhalation	<input checked="" type="checkbox"/>	skin contact	<input checked="" type="checkbox"/>	eye contact	<input type="checkbox"/>
skin absorption	<input type="checkbox"/>	ingestion	<input type="checkbox"/>		

health hazards

acute: May cause skin, eye and/or respiratory tract irritation. Inhalation of vapors may produce neurotoxicity and cholinesterase inhibition.

chronic: Prolonged exposure to 2-Butoxyethanol vapors may cause liver and kidney damage.

carcinogenicity

NTP **IARC** **OSHA**

signs and symptoms of exposure: Symptoms of peripheral neuropathy may include: diarrhea, conjunctivitis, laryngitis, rhinitis, pharyngitis, distal extremity paresthesias, and cramping pain the calves. Later symptoms may include: flaccid paralysis followed by spasticity of the lower extremities resulting in a spastic gait.

Symptoms of cholinesterase inhibition may include: headache, nausea, sweating, numbness and tingling of the hands and feet, salivation, muscle twitching, tremors, incoordination, blurred vision, tears, abdominal cramps, diarrhea, and chest discomfort.

medical conditions generally aggravated by exposure: Persons with pre-existing neuromuscular disorders may be at an increased risk from exposure to this material.

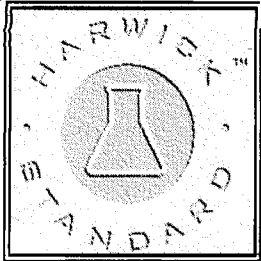
hmis rating: 2

section 7 – First Aid Measures

emergency and first aid procedures

inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Consult a physician.

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- ingestion:** Consult a physician.
- skin contact:** Remove contaminated clothing Wash with soap and water. If irritation develops, consult a physician.
- eye contact:** Immediately flush with water for 15 minutes. If irritation develops, consult a physician.

section 8 – Precautions for Safe Handling and Use

steps to be taken in case material is released or spilled: Soak up pooled liquid with a suitable absorbent such as clay, sawdust or kitty litter. Sweep up absorbed material being careful not to create dust, and place in a chemical waste container for disposal. Clean spill area thoroughly. Large spills should be diked and pumped to salvage according to a predetermined plan. Do not allow contaminated water to enter waterways or sewers.

waste disposal method: In accordance with federal, state, and local regulations. Refer to Section 10.

precautions to be taken in handling and storing: Containers should be stored in a cool, dry, well-ventilated area away from flammable materials and sources of heat or flame. Store away from foodstuffs or animal feed. Exercise due caution to prevent damage to or leakage from the container.

other precautions: Avoid contact with eyes, skin, and clothing.

section 9 – Control Measures

respiratory protection (specify type): A NIOSH/MSHA approved respirator above PEL or TLV, and/or an organic vapor respirator for vapors or mists.

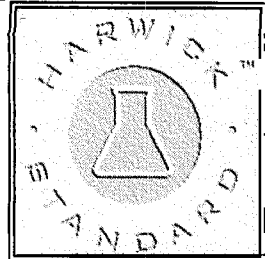
ventilation

local exhaust: Recommended to maintain PEL/TLV and vapors/mists.
mechanical (general): Recommended to maintain PEL/TLV and vapors/mists.

protective gloves: Impervious

eye protection: Chemical goggles

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other protective clothing or equipment: Coveralls, apron, boots, faceshield as necessary to prevent skin contact. Eyewash station and safety shower should be easily accessible.

work/hygienic practices: Wash thoroughly after handling

section 10 – Additional Information

special shipping information: Not DOT Regulated

TSCA Inventory Status:
Chemical components are listed on the TSCA inventory.

sara title III

This product contains the following toxic chemical(s) subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and of 40 CFR 372:

None known

RCRA status

The following chemical components are listed under (40 CFR 261):

None known

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