

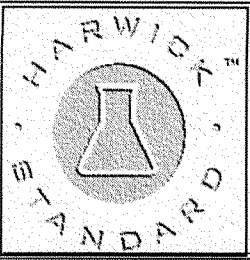
**section 1 – Preparation / Product Information**

<b>manufactured for and supplied by:</b>	<b>telephone no:</b>	<b>(330) 798-9300</b>
<b>Harwick Standard Distribution Corporation</b>	<b>date prepared:</b>	August 24, 1992
<b>60 South Seiberling Street</b>	<b>preparer:</b>	<b>Health, Safety &amp; Environment</b>
<b>P.O. Box 9360</b>	<b>product use:</b>	Rubber Additive
<b>Akron, OH 44305-0360</b>		

**Section 2– Ingredients / Identity Information**

Components Chemical identity/cas#	exposure limits			toxicity LD50/LC50	amount %
	PEL	TLV	OTHER		
Acid Refined Tall Oil; Mixture of Fatty Acids and Rosin Acids CAS #8002-26-4	Not Established				60-70
Monoisopropanolamine CAS #78-96-6	Not Established				
Diisopropanolamine CAS #110-97-4	Not Established				5-10
Triisopropanolamine CAS #122-20-3	Not Established				
Aromatic Oil, Solvent Extracts CAS #64742-04-7 PEL, TLV & STEL for oil mist, mineral	5mg/m <sup>3</sup>	5mg/m <sup>3</sup>	10mg/m <sup>3</sup>	LD50 >5,000mg/kg	
Caustic Potash Liquid CAS #1310-58-3 *OSHA & ACGIH ceiling limit	Not Established		*2mg/m <sup>3</sup>		
Water CAS #7732-18-5	Not Established				

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**section 3 – Physical / Chemical Characteristics**

<b>boiling point:</b>	212° F	<b>specific gravity:</b>	1.03
<b>freezing point:</b>	Not Determined	<b>pH:</b>	Not Determined
<b>vapor pressure (mm Hg):</b>	Not Determined	<b>odor threshold (ppm):</b>	Not Determined
<b>vapor density (AIR=1):</b>	Not Determined	<b>coef. water/oil dist.:</b>	Not Determined
<b>solubility in water</b>	Slight	<b>evaporation rate:</b>	Not Determined
<b>appearance (physical state) and odor:</b>		Liquid; Brown	
		Odor; Characteristic	

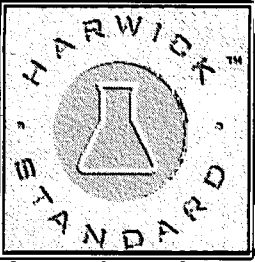
**section 4 – Fire and Explosion Hazard Data**

<b>flash point (method):</b>	420° F (COC)
<b>extinguishing media:</b>	Water fog, foam, CO <sub>2</sub> , dry chemical
<b>special fire fighting procedures:</b>	Use self-contained breathing apparatus and protective clothing.
<b>unusual fire and explosion hazards:</b>	This product can undergo spontaneous heating or combustion when exposed to heat or sunlight at relatively high ambient temperatures. Toxic vapors may be evolved during fire.
<b>hmis rating:</b>	1
<b>hazardous combustion products:</b>	CO <sub>x</sub> , NO <sub>x</sub>

**section 5 – Reactivity Data**

<b>stability</b>	<b>stable:</b> <input checked="" type="checkbox"/>
	<b>unstable:</b> <input type="checkbox"/>
<b>conditions to avoid (cond. of reactivity):</b>	Extreme heat and sunlight. Sources of ignition; open flame.
<b>incompatibility (materials to avoid):</b>	Strong oxidizing agents, mineral acids, organic acids, nitrocarbons, halocarbons, copper, brass, aluminum, zinc and tin.

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**hazardous decomposition or byproducts:** CO<sub>x</sub>, NO<sub>x</sub>. Flammable hydrogen gas may be generated when KOH and certain metals react.

**hazardous polymerization** may occur:   
will not occur:

**conditions to avoid:** None known

**hmis rating:** 0

### section 6 – Health Hazard Data

#### *primary routes of exposure*

**inhalation**       **skin contact**       **eye contact**   
**skin absorption**       **ingestion**

#### *health hazards*

**acute:** May cause moderate skin and eye irritation. Prolonged and repeated contact may cause burns and loss of vision. Breathing vapors may cause respiratory tract irritation. Ingestion can cause severe gastrointestinal irritation, vomiting, diarrhea, sweating, weakness, and/or headache.

**chronic:** A component in this product has caused skin cancer in animals.

#### *Carcinogenicity: Aromatic Oil*

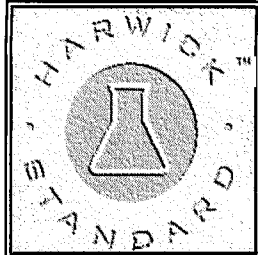
**NTP**       **IARC**  Animal      **OSHA**

**signs and symptoms of exposure:** See Health Hazards above.

**medical conditions generally aggravated by exposure:** Pre-existing skin disorders.

**hmis rating:** 2

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**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.
  - ingestion:** Consult a physician. Do not induce vomiting.
  - skin contact:** Wash with soap and water. If irritation develops, consult a physician.
  - eye contact:** Flush with water for 15 minutes. If irritation develops, consult a physician.

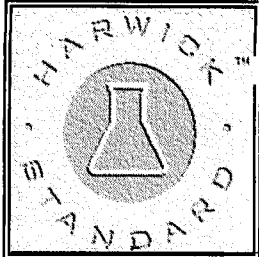
**section 8 – Precautions for Safe Handling and Use**

- steps to be taken in case material is released or spilled:** Contain spill. Remove all ignition sources. Use absorbent material to collect small spills. Do not flush into sewer or waterway.
- waste disposal method:** In accordance with federal, state, and local regulations. Refer to Section 10.
- precautions to be taken in handling and storing:** Avoid excessive heat and ignition sources.
- other precautions:** Avoid contact with eyes, skin, and clothing. Avoid breathing vapors or mists.

**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.

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- protective gloves:** Impervious
- eye protection:** Chemical goggles
- other protective clothing or equipment:** Coveralls, apron, boots, faceshield as necessary to prevent skin contact. Eyewash station and safety and safety shower should be easily accessible.
- work/hygienic practices:** Wash thoroughly after handling

**section 10 – Additional Information**

**special shipping information:** Not Available

**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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