



# Material Safety Data Sheet

This MSDS is prepared in accordance with OSHA 29 CFR 1910.1200



WHMIS CLASS B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F). WHMIS CLASS D-2: Material causing other toxic effects.

Class: Combustible liquid having a flash point between 37.8°C (100°F) and 93.3°C (200°F).  
HCS Class: Irritating substance.

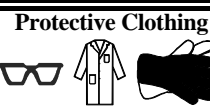
WHMIS (Pictograms)

WHMIS (Classification)

HCS

## Section 1. Chemical Product and Company Identification

Product Name/ Trade name	<b>Marathane, Finish - Gloss</b>	Code	612
Synonym	Urethane Finish For Wood Gym Floors	CAS #	Mixture.
Chemical Family	Not available.	Validation Date	3/26/2004
Chemical Formula	Not applicable.	Print Date	3/27/2004
Manufacturer/ Supplier	Betco Corporation 1001 Brown Avenue Toledo, Ohio 43607 (419) 241-2156	In Case of Emergency	Chemtrec (800) 424-9300
TSCA	TSCA Inventory: All components listed or are exempt from listing.		
DSL/ NDSL	All components listed unless noted elsewhere on this MSDS		



## Section 2. Composition and Information on Ingredients

Name	CAS #	% by Weight	Exposure Limits	LC <sub>50</sub> /LD <sub>50</sub>
1) Petroleum Distillates	64742-48-9	0-100	TWA: 500 (ppm) TWA: 100 (ppm) from OSHA (PEL) [United States]	Not available.
2) Oil Modified Urethane Resin	N/A	50-55	Not available.	Not available.
3) Alkyd Resin	N/A	25-30	Not available.	Not available.

## Section 3. Hazards Identification

<b>Potential Acute Health Effects</b>	This product is an eye irritant. May cause mild irritation to the skin.
<b>Potential Chronic Health Effects</b>	Repeated skin exposure can produce local skin destruction, or dermatitis. Repeated or prolonged exposure to the substance can produce nervous system damage. Severe over-exposure by absorption can result in death.
<b>Carcinogenic Effects</b>	Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.

## Section 4. First Aid Measures

<b>Eye Contact</b>	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.
<b>Skin Contact</b>	Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap.
<b>Inhalation</b>	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
<b>Ingestion</b>	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

### Section 5. Fire Fighting Measures

**Products of Combustion** Not available.

**Fire Fighting Media and Instructions** Use dry chemical or CO2.

**Special Remarks on Fire Hazards** Not available.

**Special Remarks on Explosion Hazards** Not available.

### Section 6. Accidental Release Measures

**Small Spill and Leak** Absorb with an inert material and put the spilled material in an appropriate waste disposal.

**Large Spill and Leak** Absorb with DRY earth, sand or other non-combustible material.

**Personal Protection in Case of a Large Spill** Splash goggles. Gloves. Wear appropriate respirator when ventilation is inadequate.

### Section 7. Handling and Storage

**Precautions** Avoid contact with skin and eyes. Keep away from heat. Keep away from sources of ignition.

**Incompatibility** Not available.

**Storage** Combustible materials should be stored away from extreme heat and away from strong oxidizing agents. Keep out of reach of children. For Institutional and Commercial Use

### Section 8. Exposure Controls/Personal Protection

**Engineering Controls** Good general ventilation should be sufficient to control airborne levels.

#### Personal Protection

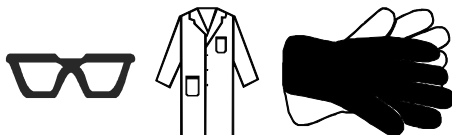
**Eyes** Safety glasses.

**Body** No special protective clothing is required.

**Respiratory** No special protective clothing is required.

**Hands** Gloves.

**Protective Clothing (Pictograms)**



**Exposure Limits** **Petroleum Distillates**  
TWA: 500 (ppm)  
TWA: 100 (ppm) from OSHA (PEL)

Consult local authorities for acceptable exposure limits.

### Section 9. Physical and Chemical Properties

**Physical State and Appearance** Liquid

**Odor** Characteristic.

**Molecular Weight** Not applicable.

**Taste** Not available.

**pH** N/A

**Color** Amber.

**Boiling/Condensation Point** 148.89°C (300°F)

**Melting/Freezing Point** Not available.

**Critical Temperature** Not available.

<b>Instability Temperature</b>	Not available.
<b>Specific Gravity</b>	0.87 (Water = 1)
<b>Vapor Pressure</b>	<10mm Hg @ 68°F
<b>Vapor Density</b>	>1 (Air = 1)
<b>Volatility</b>	Not available.
<b>VOC</b>	538 g/ Liter
<b>Evaporation Rate</b>	<1
<b>Dispersion Properties</b>	Not available.
<b>Solubility</b>	Miscible in water.
<b>The Product is:</b>	Flammable.
<b>Auto-ignition Temperature</b>	Not Available
<b>Flash Points</b>	CLOSED CUP: 40.556°C (105°F).
<b>Flammable Limits</b>	LOWER: 1% UPPER: 6%
<b>Fire Hazards in Presence of Various Substances</b>	COMBUSTIBLE.
<b>Explosion Hazards in Presence of Various Substances</b>	Explosive in presence of open flames and sparks, of heat.

### **Section 10. Stability and Reactivity Data**

<b>Stability</b>	Stable
<b>Incompatibility with Various Substances</b>	Not available.
<b>Hazardous Decomposition Products</b>	Will not occur.

### **Section 11. Toxicological Information**

<b>Routes of Entry</b>	Eye Contact Skin contact. Ingestion.
<b>Toxicity to Animals</b>	not available
<b>Acute Effects on Humans</b>	<p><i>Eyes</i> Slightly hazardous in case of eye contact (irritant).</p> <p><i>Skin</i> Slightly hazardous in case of skin contact (irritant). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.</p> <p><i>Inhalation</i> Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath.</p> <p><i>Ingestion</i> Harmful if swallowed.</p>
<b>Chronic Effects on Humans</b>	Repeated skin exposure can produce local skin destruction, or dermatitis. Repeated or prolonged exposure to the substance can produce nervous system damage. Severe over-exposure by absorption can result in death.
<b>Special Remarks on Toxicity to Animals</b>	No additional remark.

Special Remarks on Chronic Effects on Humans No additional remark.

### Section 12. Ecological Information

Ecotoxicity	Not available.
BOD5 and COD	Not available.
Products of Biodegradation	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
Toxicity of the Products of Biodegradation	Not Applicable
Special Remarks on the Products of Biodegradation	No additional remark.

### Section 13. Disposal Considerations

Waste Information	Waste must be disposed of in accordance with federal, state and local environmental control regulations.
Waste Stream	Not available.

### Section 14. Transport Information

DOT (U.S.A)  
(Pictograms)



TDG Classification 3



PIN UN, Proper Shipping Name, PG Shipping name: Combustible Liquid NOS UNNA: 1993 PG: III

Maritime Transportation Not available.

Special Provisions for Transport Not available.

### Section 15. Other Regulatory Information and Pictograms

WHMIS (Classification) WHMIS CLASS B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F). WHMIS CLASS D-2: Material causing other toxic effects.



Regulatory Lists No products were found.

Other Regulations OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

Other Classifications	<b>HCS (U.S.A.)</b>	Class: Combustible liquid having a flash point between 37.8°C (100°F) and 93.3°C (200°F). HCS Class: Irritating substance.
	<b>USA Regulatory Lists</b>	

SARA 311/312 MSDS distribution - chemical inventory - hazard identification:  
Petroleum Distillates: fire, immediate health hazard

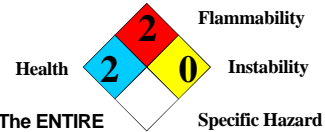
DSD (EEC) R10- Flammable.

International Regulations Lists No products were found.

**Hazardous Material Information System (U.S.A.)**

Health	*	2
Flammability		2
Physical Hazard		0

**National Fire Protection Association (U.S.A.)**



The Hazard Ranking systems presented on this MSDS provide only a quick reference for hazard information. The ENTIRE MSDS must be consulted to determine any specific hazards, First Aid measures, and PPE associated with this product.

**Section 16. Other Information**

Validated by CRushton on 3/26/2004.

Verified by CRushton.

Printed 3/27/2004.

**Information Contact** Betco Corporation  
1001 Brown Avenue  
Toledo, Ohio 43607

Notice to Reader

*To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.*

*Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.*

Validated on 3/26/2004.

**Marathane, Finish - Gloss**

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