

Material Safety Data Sheet This MSDS is prepared in accordance with OSHA 29 CFR 1910.1200





WHMIS Class B-2: Flammable liquid with a flash point lower than 37.8°C (100°F).WHMIS Class D-2B: Material causing other lash point lower than 37.8°C toxic effects (TOXIC).

(100°F).HCS Class: Irritating substance.

WHMIS (Pictograms)

WHMIS (Classification)

HCS

Section 1. Che	emical Product and Company Identification		
Product Name/ Trade name	Marathane 350	Code	698
Synonym	Polyurethane Finish for Wood Floors	CAS#	Mixture.
Chemical Family	Mixture	Validation	Date 5/7/2009
Chemical Formula	Not applicable.	Print Date	5/7/2009
Manufacturer/ Supplier	Betco Corporation 1001 Brown Avenue Toledo, Ohio 43607 (800) 333-2156	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	0	Protective Clothing

Section 2. Composition and Information on Ingredients				
Name	CAS#	% by Weight	Exposure Limits	LC ₅₀ /LD ₅₀
Mineral Spirits Aromatic Naptha	64742-88-7 64742-95-6	25 - 50 1 - 5	ACGIH TLV (United States). TWA: 100 ppm 8 hour(s). OSHA PEL (United States). TWA: 100 ppm 8 hour(s). TWA: 100 ppm OSHA (United States). STEL: 50 ppm	ORAL (LD50): Acute: 4700 mg/kg [Rat]. DERMAL (LD50): Acute: >4 mg/kg [Rat]. VAPOR (LC50): Acute: 3670 ppm 8 hour(s) [Rat].
Oil Modified Urethane Resin	N/A	40 - 70	Not established	Not established
Parachlorobenzotrifluoride	98-56-6	5 - 10	Not available.	Not available.
Tert-Butyl acetate	540-88-5	5 - 10	200 ppm ACGIH	Not established

Section 3. Hazards Identification		
Potential Acute Health Effects	This product is an eye irritant. Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath. May cause dizziness, nausea.	
Potential Chronic Health Effects	Repeated or prolonged exposure to the substance can produce nervous system damage. Repeated or prolonged exposure to the substance can produce kidney damage.	
Carcinogenic Effects	Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.	

Section 4. First Aid Measures		
Eye Contact	Flush with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Seek immediate medical attention.	
Skin Contact	Remove contaminated clothing and shoes. Wash gently and thoroughly the contaminated skin with running water and non-abrasive soap.	
Inhalation	Move affected person to fresh air. If not breathing, give artificial respiration. Call a physician.	
Ingestion	Do not induce vomiting. Call a poison control center or doctor immediately for treatment advice.	

Section 5. Fire Fig	Section 5. Fire Fighting Measures	
Products of Combustion	Not determined.	
Fire Fighting Media and Instructions	Foam, CO2, or dry chemical.	
Special Remarks on Fire Hazards	No additional remark.	
Special Remarks on Explosion Hazards	Heated Containers may burst.	

Section 6. Accidental Release Measures		
Small Spill and Leak	Absorb with an inert material.	
Large Spill and Leak	Eliminate all ignition sources. Wear suitable protective clothing, gloves and eye/face protection. Do not allow any potentially contaminated water including rain water, runoff from fire fighting or spills to enter any waterway, sewer or drain. Dispose of according to all federal, state and local applicable regulations.	
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Gloves (impervious). Boots. Wear appropriate respirator when ventilation is inadequate. Be sure to use a MSHA/NIOSH approved respirator or equivalent.	

Section 7. Han	dling and Storage
Precautions	Store and use away from heat, sparks, open flame, or any other ignition source. No smoking. Avoid breathing vapors or spray mists. Do not ingest. After handling, always wash hands thoroughly with soap and water.
Incompatibility	Strong oxidizers. acids alkalis
Storage	Keep away from heat, sparks and flame. Keep in a cool and ventilated area away from combustible materials. Inside storage should be in a standard flammable liquids storage warehouse, room or cabinet. Keep out of the reach of children.

Section 8. Exposu	Section 8. Exposure Controls/Personal Protection		
Engineering Controls	Use only in well-ventilated areas Local exhaust ventilation should be provided.		
Personal Protection Eyes	s Safety glasses.		
Body	Long Sleeves and pants to avoid skin contact.		
Respiratory	Vapor respirator. Approved/certified respirator with organic vapor cartridges.		
Hands	Gloves.		
Protective Clothing (Pictograms)			

See Section 2 For Applicable Exposure Limits

Exposure Limits

Section 9. Physica	al and Chemical Properties		
Physical State and Appearance	Liquid	Odor	Pungent,fruity.
Molecular Weight	Not applicable.	Taste	Not available.
pН	N/A	Color	Clear.
Boiling/Condensation Point	139 - 313 F.		
Melting/Freezing Point	Not available.		
Critical Temperature	Not available.		
Instability Temperature	Not available.		
Specific Gravity	0.911 (Water = 1)		
Vapor Pressure	Not available.		
Vapor Density	Heavier than air.		
Volatility	>45%		
VOC	350 (g/l).		
Evaporation Rate	<1		
Dispersion Properties	not available		
Solubility	Insoluble		
The Product is:	FLAMMABLE.		
Auto-ignition Temperature	Not available.		
Flash Points	Closed cup: 82°F.		
Flammable Limits	LOWER: 0.5% UPPER: 10.5%		
Fire Hazards in Presence of Various Substances	Slightly flammable to flammable in p materials, reducing materials, combustible		f open flames, sparks, heat, oxidizing, organic materials, metals, acids, alkalis.
Explosion Hazards in Presence of Various Substances	Containers may explode when heated		

Section 10. Stability and Reactivity Data		
Stability	Stable under recommended storage and handling conditions (see section 7).	
Incompatibility with Various Substances	Strong oxidizers. acids alkalis	
Hazardous Decomposition Not determined. Products		

Section 11. Toxico	ological Information
Routes of Entry	Inhalation. Ingestion. Eye Contact. Skin Contact.
Toxicity to Animals	Not available.
Acute Effects on Humans	
Eyes	Irritating to eyes. Inflammation of the eye is characterized by redness, watering, and itching.
Skin	Irritating to skin. Prolonged skin contact may cause dermatitis with drying and cracking of skin.
Inhalation	Irritating to respiratory system. May cause headache, dizziness.
Ingestion	Irritating to mouth, throat and stomach. Aspiration hazard if swallowed- can enter lungs and cause damage.
Chronic Effects on Humans	Repeated or prolonged exposure to the substance can produce nervous system damage. Repeated or prolonged exposure to the substance can produce kidney damage.
Special Remarks on Toxicity to Animals	No additional remark.
Special Remarks on Chronic Effects on Humans	No additional remark.

Section 12. Ecolo	gical Information
Ecotoxicity	Not available.
BOD5 and COD	Not available.
Products of Biodegradation	Not determined.
Toxicity of the Products of Biodegradation	of Not determined.
Special Remarks on the Products of Biodegradation	No additional remark.

Section 13. Disposal Considerations			
Waste Information	Hazardous waste.		
Waste Stream	Hazardous		

Section 14. Transport Information

DOT (U.S.A) (Pictograms)



TDG Classification 3

PIN UN, Proper Shipping Shipping name: Paint UN 1263 PG III Name, PG

Maritime Transportation Not available.

Not available.

Section 15. Other Regulatory Information and Pictograms						
WHMIS (Classification)		mmable liquid with a flash point lower than S Class D-2B: Material causing other toxic	(b) (7)			
Regulatory Lists	No products were found.					
Other Regulations	OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).					
Other Classifications	HCS (U.S.A.)	HCS Class: Flammable liquid having a flash point lower than 37.8°C (100°F).HCS Class: Irritating substance.				
	USA Regulatory Lists					
		SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Mineral Spirits, Aromatic Naphtha, Tert-Butyl acetate, Parachlorobenzotrifluoride: Fire hazard, Immediate (Acute) Health Hazard, Delayed (Chronic) Health Hazard				
	DSD (EEC)					
	International Regulations Lists	No products were found.				
		* 2 National Fire Protection Association (U.S.A.) rovide only a quick reference for hazard informat ards, First Aid measures, and PPE associated with				

Section 16. Other Information Validated by LMorsch on 5/7/2009. Verified by LMorsch. Printed 5/7/2009. Information Contact Notice to Reade 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 5/7/2009.	Marathane 350	Page: 5/5