





Material Safety Data Sheet

This MSDS is prepared in accordance with OSHA 29 CFR 1910.1200

	Not controlled under WHMIS (Canada).	HCS Class: Irritating substance.
WHMIS (Pictograms)	WHMIS (Classification)	HCS

Section 1. Chemical Product and Company Identification

Product Name/ Trade name	Betco Matte Finish	Code	665
Synonym	Not available.	CAS #	Mixture.
Chemical Family		Validation Date	3/1/2005
Chemical Formula	Not applicable.	Print Date	3/1/2005
Manufacturer/ Supplier	Betco Corporation 1001 Brown Avenue Toledo, Ohio 43607 (800) 666-2156	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		
		Protective Clothing 	

Section 2. Composition and Information on Ingredients

Name	CAS #	% by Weight	Exposure Limits	LC ₅₀ /LD ₅₀
Styrene/ Acrylic Copolymer	25987-66-0	10 - 15	Not available.	Not available.
Amorphous Silica	7631-86-9	5 - 10	Not available.	Not available.
Dipropylene Glycol Methyl Ether	34590-94-8	1 - 5	Not available.	Not available.
Diethylene Glycol Ethyl Ether	111-90-0	1 - 5	TWA: 25 ppm CEIL: 25 ppm	ORAL (LD50): Acute: 5540 mg/kg [Rat].
Tributoxyethyl Phosphate	78-51-3	1 - 5	Not available.	Not available.
Polyethylene Emulsion	N/A	0.1 - 2	Not available.	Not available.

Section 3. Hazards Identification

Potential Acute Health Effects	Hazardous in case of skin contact (irritant, permeator), of eye contact (irritant), of ingestion. Slightly hazardous in case of inhalation. Non-corrosive for skin.
Potential Chronic Health Effects	Repeated skin exposure can produce local skin destruction, or dermatitis.
Carcinogenic Effects	Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.

Section 4. First Aid Measures


Eye Contact	Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Get medical attention. Finish by rinsing thoroughly with running water to avoid a possible infection.
Skin Contact	In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

Section 5. Fire Fighting Measures	
Products of Combustion	Not available.
Fire Fighting Media and Instructions	Not applicable.
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 an inert material and put the spilled material in an appropriate waste disposal. Do not allow any potentially contaminated water including rain water, runoff from fire fighting or spills to enter any waterway, sewer or drain.
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Vapor respirator. Boots. Gloves.

Section 7. Handling and Storage	
Precautions	Do not ingest. Do not breathe gas/fumes/ vapor/spray. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes.
Incompatibility	Slightly reactive to reactive with metals.
Storage	Keep container tightly closed. Keep container in a cool, well-ventilated area.

Section 8. Exposure Controls/Personal Protection	
Engineering Controls	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are proximal to the work-station location.
Personal Protection	
<i>Eyes</i>	Safety glasses.
<i>Body</i>	Lab coat.
<i>Respiratory</i>	A respirator is not needed under normal and intended conditions of product use. Wear appropriate respirator when ventilation is inadequate.
<i>Hands</i>	Nitrile gloves. Rubber gloves.
Protective Clothing (Pictograms)	
Exposure Limits	Not available.

Section 9. Physical and Chemical Properties

Physical State and Appearance	Liquid.	Odor	Characteristic.
Molecular Weight	Not applicable.	Taste	Not available.
pH	8 to 9 [Basic.]	Color	White.
Boiling/Condensation Point	100°C (212°F)		
Melting/Freezing Point	May start to solidify at 0°C (32°F) based on data for: Water.		
Critical Temperature	Not available.		
Instability Temperature	Not available.		
Specific Gravity	1.06 (Water = 1)		
Vapor Pressure	Not available.		
Vapor Density	>1 (Air = 1)		
Volatility	>70% (w/w).		
VOC	287.58 (g/l).		
Evaporation Rate	<1 compared to Butyl acetate.		
Dispersion Properties	See solubility in water, methanol, diethyl ether, acetone.		
Solubility	Easily soluble in methanol, acetone. Soluble in diethyl ether. Very slightly soluble in cold water, hot water.		
The Product is:	Non-flammable.		
Auto-ignition Temperature	Not applicable.		
Flash Points	Not applicable.		
Flammable Limits	Not applicable.		
Fire Hazards in Presence of Various Substances	Not applicable.		
Explosion Hazards in Presence of Various Substances	Not available.		

Section 10. Stability and Reactivity Data

Stability	The product is stable.
Incompatibility with Various Substances	Slightly reactive to reactive with metals.
Hazardous Decomposition Products	Not available.

Section 11. Toxicological Information

Routes of Entry Dermal contact. Eye contact. Inhalation. Ingestion.

Toxicity to Animals Acute oral toxicity (LD50): 5540 mg/kg [Rat]. (Diethylene Glycol Ethyl Ether).

Acute Effects on Humans

Eyes Hazardous in case of eye contact (irritant).

Skin Sensitization of the product: Not available.
Hazardous in case of skin contact (irritant, permeator). Non-corrosive for skin. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

Inhalation Slightly hazardous in case of inhalation.

Ingestion Hazardous in case of ingestion.

Chronic Effects on Humans Repeated skin exposure can produce local skin destruction, or dermatitis.

Special Remarks on Toxicity to Animals Not available.

Special Remarks on Chronic Effects on Humans Not available.

Section 12. Ecological Information

Ecotoxicity Not available.

BOD5 and COD Not available.

Products of Biodegradation Not available.

Toxicity of the Products of Biodegradation Not available.

Special Remarks on the Products of Biodegradation Not available.

Section 13. Disposal Considerations

Waste Information Type: Hazardous chemical waste.
Location: not available
Classification: not available
Disposal.: Waste must be disposed of in accordance with federal, state and local environmental control regulations.
Storage: not available
Recycling: not available

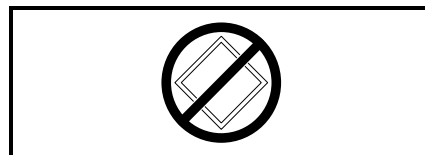
Waste Stream Not available.

Section 14. Transport Information

**DOT (U.S.A)
(Pictograms)**



TDG Classification -



PIN UN, Proper Shipping Name, PG Not applicable.

Maritime Transportation Not available.

Special Provisions for Transport Not available.

Section 15. Other Regulatory Information and Pictograms

WHMIS (Classification) Not controlled under WHMIS (Canada).



Regulatory Lists CEPA DSL: Ammonia anhydrous
Canadian NPRI: Ammonia anhydrous

Other Regulations Not available. or of its ingredients

Other Classifications

HCS (U.S.A.) HCS Class: Irritating substance.

USA Regulatory Lists
WARNING: This product contains chemical(s) known to the state of California to cause cancer, birth defects or other reproductive harm: Formaldehyde
WARNING: This product contains chemical(s) known to the state of California to cause cancer.: Formaldehyde
Rhode Island RTK hazardous substances: Ammonia anhydrous
Pennsylvania RTK: Ammonia anhydrous: (environmental hazard)
Florida: Ammonia anhydrous
Minnesota: Ammonia anhydrous
Massachusetts RTK: Formaldehyde ; Ammonia anhydrous
New Jersey: Ammonia anhydrous
New Jersey spill list: Ammonia anhydrous
SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Diethylene Glycol Ethyl Ether: Fire hazard
CERCLA: Hazardous substances.: Ammonia anhydrous;
Clean Water Act (CWA) 307: Ammonia anhydrous

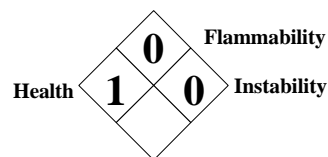
DSD (EEC) R20- Harmful by inhalation.
R36/38- Irritating to eyes and skin.

International Regulations Lists Japan (MOL): Ammonia anhydrous

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

Health	1
Flammability	0
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.

Specific Hazard

Section 16. Other Information

Validated by CRushton on 3/1/2005.

Verified by CRushton.

Printed 3/1/2005.

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 3/1/2005.

Betco Matte Finish

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