

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

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

WINIS (Reagrams)				nes
Section 1. Che	emical Product and Company Identification			
Product Name/ Trade name	Clear Image	Code		092
Synonym	Non-Ammoniated Glass/Plexiglass® Cleaner	Version Nu		
Chemical Family	Not available.	Validation	Date	3/2/2010
Chemical Formula	Not applicable.	Print Date		3/3/2010
Manufacturer/ Supplier	Betco Corporation 1001 Brown Avenue Toledo, Oh 43607 (419) 241-2156	In Case of Emergency	Che	mtrec (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		Prot	tective Clothing

Name	CAS#	% by Weight	Exposure Limits	LC <sub>50</sub> /LD <sub>50</sub>	
Ethyl Alcohol	64-17-5	15-20	TWA: 1000 (ppm) TWA: 1000 (ppm) from OSHA (PEL) [United States]	ORAL (LD50): Acute: 7060 mg/kg [Rat].	
2-Butoxyethanol	111-76-2	0-5	TWA: 20 (ppm) from ACGIH (TLV) [United States] TWA: 50 (ppm) from OSHA (PEL) [United States]	ORAL (LD50): Acute: 1746 mg/kg [Rat].	
Sodium Lauryl Sulfate Monoethanolamine	151-21-3 141-43-5	0-5 0-5	Not available. TWA: 3 (ppm) TWA: 6 (ppm) from OSHA (PEL) [United States] STEL: 6 (ppm)	Not available. Not available.	
Liquified Petroleum Gas	68476-85-7	0-5	TWA: 1000 (ppm) TWA: 1000 (ppm) from OSHA (PEL) [United States]	Not available.	
Nonionic Surfactant	127087-87-0	0-5	Not available.	Not available.	
Perfume Oil	N/A	0-5	Not available.	Not available.	

Section 3. Hazards Identification		
Potential Acute Health Effects	No specific information is available in our database regarding the acute toxic effects of this material for humans.	
Potential Chronic Health Effects	Over-exposure by inhalation may cause respiratory irritation. Severe over-exposure can produce lung damage, choking, unconsciousness or death.	
Carcinogenic Effects	Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.	

Section 4. First Aid Measures		
<b>Eye Contact</b>	Flush eyes with large quantities of water. Seek medical attention if irritation persists.	
Skin Contact	Flush with large quantities of water. Seek medical attention if irritation persists.	
Inhalation	Get to fresh air. Seek medical attention if irritation persists.	
Ingestion	Drink two glasses of water. Do not induce vomiting. Seek medical attention immediately.	

Section 5. Fire Fighting Measures	
<b>Products of Combustion</b>	Not available.
Fire Fighting Media and Instructions	CO2, dry chemical, foam.
Special Remarks on Fire Hazards	N/A
Special Remarks on Explosion Hazards	Heated cans may burst.

Section 6. Accidental Release Measures		
Small Spill and Leak	N/A	
Large Spill and Leak	Absorb with an inert material and put the spilled material in an appropriate waste disposal. Call for assistance on disposal.	
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.	

Section 7. Handling and Storage		
Precautions	Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. 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.	
Incompatibility	None known.	
Storage	Keep out of the reach of children. Not for use or storage in or around the home.	

Section 8. Exposure Controls/Personal Protection		
<b>Engineering Controls</b>	Good general ventilation should be sufficient to control airborne levels.	
Personal Protection		
Eye	28	
Boo	y No special protective clothing is required.	
Respirato	y Not applicable.	
Hand	s Gloves.	

## Protective Clothing (Pictograms)



**Exposure Limits Ethyl Alcohol** 

TWA: 1000 (ppm)

TWA: 1000 (ppm) from OSHA (PEL) [United States]

**2-Butoxyethanol** TWA: 25 (ppm)

TWA: 50 (ppm) from OSHA (PEL) [United States]

Monoethanolamine

TWA: 3 (ppm)

TWA: 6 (ppm) from OSHA (PEL) [United States]

STEL: 6 (ppm)

**Liquified Petroleum Gas** 

TWA: 1000 (ppm)

TWA: 1000 (ppm) from OSHA (PEL) [United States]

Consult local authorities for acceptable exposure limits.

Physical State and	Liquid.	Odor	Characteristic.
Appearance		Taste	
Molecular Weight	Not applicable.		
pН	10.5 to 11.5 [Basic.]	Color	White.
Boiling/Condensation Point	N/A		
Melting/Freezing Point	Not available.		
Critical Temperature	Not available.		
Instability Temperature	Not available.		
Specific Gravity	Not available.		
Vapor Pressure	50 psig @ 68°F		
Vapor Density	>1 (Air = 1)		
Volatility	99		
VOC	Not available.		
<b>Evaporation Rate</b>	<1		
Dispersion Properties	See solubility in water.		
Solubility	Easily soluble in cold water.		
The Product is:	May be combustible at high temperate	ıre.	
Auto-ignition Temperature	Not available.		
Flash Points	Not available.		
Flammable Limits	LOWER: 1.1% UPPER: 19%		
Fire Hazards in Presence of Various Substances	Not available.		

Explosion Hazards in Presence of Various Substances Containers may explode when heated.

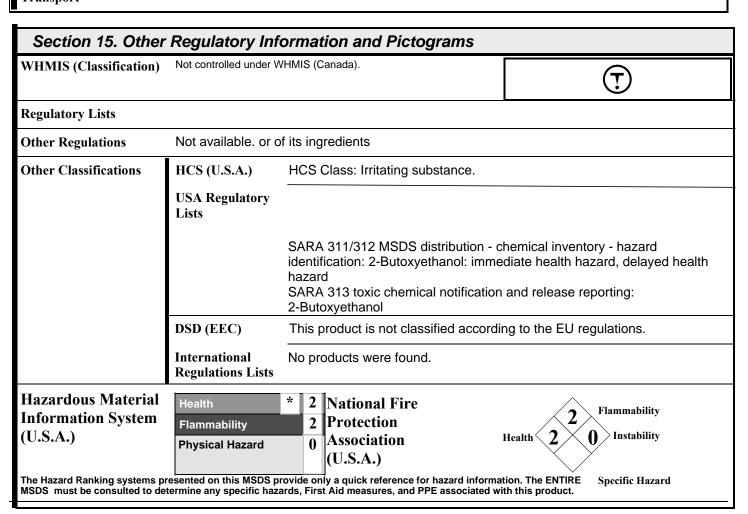
Section 10. Stability and Reactivity Data	
Stability	The product is stable.
Incompatibility with Various Substances	None known.
Hazardous Decomposition Products	n Will not occur.

Section 11. Toxicological Information		
<b>Routes of Entry</b>	Not available.	
<b>Toxicity to Animals</b>	Acute oral toxicity (LD50): 1746 mg/kg [Rat]. (2-Butoxyethanol).	
Acute Effects on Human	s	
Ey	es Eye irritant. Liquid and mist may damage the eyes causing corneal injury.	
Sk	in Skin irritant. May cause moderate redness and swelling.	
Inhalatio	may be irritating to mucous membranes of the nose, throat, and lungs.	
Ingestic	may cause dizziness, headache, nausea, vomiting, and diarrhea.	
Chronic Effects on Humans	Over-exposure by inhalation may cause respiratory irritation. Severe over-exposure can produce lung damage, choking, unconsciousness or death.	
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	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.		
Toxicity of the Products of Not available. Biodegradation			
Special Remarks on the Products of Biodegradation	Not available.		

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 Not controlled under TDG (Canada). PIN UN, Proper Shipping Not applicable. Name, PG Maritime Transportation Not available. Special Provisions for Not applicable. Transport



Section 16. Other Information				
Validated by CRushton on 3/23/2007.	Verified by CRushton. Printed 3/3/2010.			

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

### 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.

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