



Material Safety Data Sheet

WHMIS (Pictograms)

WHMIS (Classification)

HCS



Not controlled under WHMIS (Canada).

HCS Class: Irritating substance.

Section 1. Chemical Product and Company Identification

Product Name/ Trade name	AF315	Code	315
Synonym	Neutral pH Disinfectant/Deodorant/Detergent	CAS #	Not applicable.
Chemical Family	Not available.	Validation Date	11/7/2002
Chemical Formula	Not applicable.	Print Date	11/7/2002
Manufacturer	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	DSL : 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
1) Water	7732-18-5	>93	Not available.	Not available.
2) Quaternary Ammonium Chloride	68424-85-1	2	Not available.	Not available.
3) Isopropyl Alcohol	67-63-0	<2	TWA: 400 (ppm) TWA: 400 (ppm) from OSHA (PEL) [United States] STEL: 500 (ppm)	Not available.
4) Nonionic Surfactant	9016-45-9	<1	Not available.	Not available.
5) Perfume Oil	N/A	<1	Not available.	Not available.
6) Dye	N/A	<1	Not available.	Not available.

Section 3. Hazards Identification

Potential Acute Health Effects Harmful if swallowed. Inflammation of the eye is characterized by redness, watering, and itching.

Potential Chronic Health Effects Over-exposure by inhalation may cause respiratory irritation. Prolonged exposure may result in skin burns and ulcerations.

Carcinogenic Effects Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.

Section 4. First Aid Measures

Eye Contact Flush eyes with large quantities of water. Seek medical attention if irritation persists.

Skin Contact Flush with water. Seek medical attention if irritation persists.

Inhalation N/A

Ingestion Dilute with two glasses of water. Seek medical attention.

Section 5. Fire Fighting Measures

Products of Combustion	Not available.
Fire Fighting Media and Instructions	N/A
Special Remarks on Fire Hazards	N/A
Special Remarks on Explosion Hazards	N/A

Section 6. Accidental Release Measures

Small Spill and Leak	Safety glasses recommended.
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 breathe gas, fumes, vapor or spray.
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

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

Personal Protection

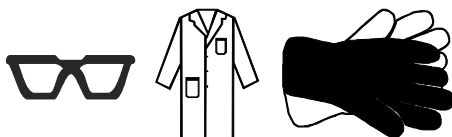
Eyes Safety glasses.

Body Lab coat.

Respiratory Not applicable.

Hands Not applicable.

Protective Clothing (Pictograms)



Exposure Limits

Isopropyl Alcohol
TWA: 400 (ppm)
TWA: 400 (ppm) from OSHA (PEL)
STEL: 500 (ppm)

Consult local authorities for acceptable exposure limits.

Section 9. Physical and Chemical Properties

Physical State and Appearance	Liquid.	Odor	Pleasant.
Molecular Weight	Not applicable.	Taste	Not available.
pH	6.5 to 8.5 [Basic.]	Color	Blue. (Light.)
Boiling/Condensation Point	212°F initial		
Melting/Freezing Point	Not available.		
Critical Temperature	Not available.		
Instability Temperature	Not available.		
Specific Gravity	1 (Water = 1)		
Vapor Pressure	20mm Hg @ 68°F		
Vapor Density	>1 (Air = 1)		
Volatility	90		
VOC	Not available.		
Evaporation Rate	(Water=1):<1		
Odor Threshold	Not available.		
LogK_{ow}	Not available.		
Ionicity (in Water)	Not available.		
Dispersion Properties	See solubility in water.		
Solubility	Easily soluble in cold water.		
The Product is:	Non-flammable.		
Auto-ignition Temperature	Not available.		
Flash Points	Not available.		
Flammable Limits	Not available.		
Fire Hazards in Presence of Various Substances	No specific information is available in our database regarding the flammability of this product in presence of various materials.		
Explosion Hazards in Presence of Various Substances	Not applicable		

Section 10. Stability and Reactivity Data

Stability	The product is stable.
Incompatibility with Various Substances	None known.
Hazardous Decomposition Products	Will not occur.

Section 11. Toxicological Information

Routes of Entry	Absorbed through skin. Eye contact. Inhalation. Ingestion.
Toxicity to Animals	LD50: Not available. LC50: Not available.
Acute Effects on Humans	
<i>Eyes</i>	Eye irritant. May cause redness and swelling of the conjunctiva.
<i>Skin</i>	Defatting to skin on repeated contact.
<i>Inhalation</i>	N/A
<i>Ingestion</i>	May be irritating to the gastrointestinal system. Vomiting and diarrhea expected with large doses.
Chronic Effects on Humans	Over-exposure by inhalation may cause respiratory irritation. Prolonged exposure may result in skin burns and ulcerations.
Special Remarks on Toxicity to Animals	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 available.
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	Not controlled under TDG (Canada). 
PIN UN, Proper Shipping Name, PG	Not applicable.
Maritime Transportation	Not available.

Special Provisions for Transport

Not applicable.

Section 15. Other Regulatory Information and Pictograms

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

Regulatory Lists	CEPA DSL: No products were found.
-------------------------	-----------------------------------

Other Regulations	Not available. or of its ingredients
--------------------------	--------------------------------------

Other Classifications	HCS (U.S.A.)	HCS Class: Irritating substance.
	USA Regulatory Lists	No products were found. This product does not contain any component listed on California Prop 65
		SARA 311/312: Isopropyl Alcohol; Quaternary Ammonium Chloride SARA 313: No Components were found
	DSD (EEC)	This product is not classified according to the EU regulations.
International Regulations Lists	No products were found.	

Hazardous Material Information System (U.S.A.)	Health	1	National Fire Protection Association (U.S.A.)	
	Flammability	0		
	Reactivity	0		
	Personal Protection	A		

Section 15. Other Regulatory Information and Pictograms

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

Regulatory Lists	CEPA DSL: No products were found.
-------------------------	-----------------------------------

Other Regulations	Not available. or of its ingredients
--------------------------	--------------------------------------

Other Classifications	HCS (U.S.A.)	HCS Class: Irritating substance.
	USA Regulatory Lists	No products were found. This product does not contain any component listed on California Prop 65
		SARA 311/312: Isopropyl Alcohol; Quaternary Ammonium Chloride SARA 313: No Components were found
	DSD (EEC)	This product is not classified according to the EU regulations.
International Regulations Lists	No products were found.	

Hazardous Material Information System (U.S.A.)	Health	1	National Fire Protection Association (U.S.A.)	
	Flammability	0		
	Reactivity	0		
	Personal Protection	A		

Section 16. Other Information

Validated by CRushton on 11/7/2002.

Verified by CRushton.

Printed 11/7/2002.

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 11/7/2002.

AF315

Page: 6/6

Continued on Next Page