

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

WHMIS CLASS E: Corrosive liquid.

HCS CLASS: Corrosive liquid.

WHMIS (Pictograms)

WHMIS (Classification)

HCS

	Section 1. Chemical	Product and	Company I	dentification
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Product Name/ Trade name	Factory Formula HP	Code	193
Synonym	Degreaser	CAS#	Not applicable.
Chemical Family	Not available.	Validation 1	Date 3/2/2007
Chemical Formula	Not applicable.	Print Date	3/24/2007
Manufacturer/ Supplier	Betco Corporation 1001 Brown Avenue Toledo, Oh 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		Protective Clothing

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Section 2. Composition and Information on Ingredients				
Name	CAS#	% by Weight	Exposure Limits	LC <sub>50</sub> /LD <sub>50</sub>
Poly(oxyethylene) nonylphenyl ether	9016-45-9	7.5	Not available.	Not available.
Alcohol Polyether	68551-12-2	1 - 5	Not available.	Not available.
Sodium Metasilicate	6834-92-0	1 - 5	Not available.	Not available.
Sodium Xylene Sulfonate	1300-72-7	0 - 5	Not available.	ORAL (LD50): Acute:
·				650 mg/kg [Rat]. 5939 mg/kg [Mouse].

Section 3. Hazarda	s Identification
Potential Acute Health Effects	Corrosive to eyes and skin.
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. Fir	st Aid Measures
Eye Contact	Immediately Hold eye open and rinse slowly and thoroughly with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor immediately for treatment advice.
Skin Contact	Rinse skin with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for further treatment advice. Remove contaminated clothing and shoes.
Inhalation	Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration., preferably mouth to mouth if possible. Call a poison control center or doctor for further treatment advice.

Call a poison control center immediately for treatment advice. Have person sip a glass of water if able to swallow. Do NOT induce vomiting unless instructed to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person

Section 5. Fire Fig	Section 5. Fire Fighting Measures	
<b>Products of Combustion</b>	Not available.	
Fire Fighting Media and Instructions	Non-flammable substance.	
Special Remarks on Fire Hazards	No additional remark.	
Special Remarks on Explosion Hazards	No additional remark.	

Section 6. Accide	ntal Release Measures
Small Spill and Leak	Absorb with an inert material and place in an appropriate waste disposal container.
Large Spill and Leak	Absorb with an inert material and put the spilled material in an appropriate waste 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. Hand	lling and Storage
Precautions	Avoid contact with skin and eyes. DO NOT ingest.
Incompatibility	acids
Storage	Keep out of the reach of children. Not for use or storage in or around the home.

Section 8. Expos	Section 8. Exposure Controls/Personal Protection			
<b>Engineering Controls</b>	Good general ventilation should be sufficient to control airborne levels.			
Personal Protection Ey	es Splash goggles.			
Вос	dy Long Pants and Long Sleeves to avoid skin cotact.			
Respirato	ry Wear appropriate respirator when ventilation is inadequate.			
Hand	ds Gloves (impervious).			
Protective Clothing (Pictograms)				
Exposure Limits	Not available			

Physical State and	Liquid.	Odor	Citrus	
Appearance				
Molecular Weight	Not applicable.	Taste	Not available.	
pH	12.5 to 13 [Basic.]	Color	Blue.	
Boiling/Condensation Point	101.11°C (214°F)			
Melting/Freezing Point	Not available.			
Critical Temperature	Not available.			
Instability Temperature	Not available.			

<b>Specific Gravity</b>	1.03 (Water = 1)		
Vapor Pressure	20 mm of Hg (@ 20°C)		
Vapor Density	>1 (Air = 1)		
Volatility	>85% (w/w).		
VOC	Not available.		
<b>Evaporation Rate</b>	<1		
<b>Dispersion Properties</b>	See solubility in water.		
Solubility	Easily soluble in cold water, hot water.		
The Product is:	May be combustible at high temperature.		
Auto-ignition Temperature	Not available.		
Flash Points	CLOSED CUP: >98.889°C (210°F).		
Flammable Limits	Not available.		
Fire Hazards in Presence of Various Substances	•		
Explosion Hazards in Presence of Various Substances	Not applicable		

Section 10. Stability and Reactivity Data				
Stability	The product is stable.			
Incompatibility with Various Substances	acids			
Hazardous Decompositi Products	ion Not available.			

Section 11. Toxicological Information				
<b>Routes of Entry</b>	Absorbed through skin. Eye contact. Inhalation. Ingestion.			
<b>Toxicity to Animals</b>	Acute oral toxicity (LD50): 3030 mg/kg [Rat]. (Tetrasodium EDTA).			
<b>Acute Effects on Humans</b>				
Eyes	Very hazardous in case of eye contact (corrosive). Inflammation of the eye is characterized by redness, watering, and itching. May cause corneal opacity.			
Skin	Very hazardous in case of skin contact (corrosive, irritant). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.			
Inhalation Harmful if inhaled. Irritant.				
Ingestion	Very hazardous in case of ingestion. May be fatal if swallowed. May cause burns to mouth, throat, and stomach.			
Chronic Effects on Humans	Over-exposure by inhalation may cause respiratory irritation. Prolonged exposure may result i 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 Biodegradation	s of Not available.		
Special Remarks on the Products of Biodegradation	No additional remark.		

# Section 13. Disposal Considerations Waste Information Waste Stream Waste Stream

### Section 14. Transport Information

DOT (U.S.A) (Pictograms)



**TDG Classification** 8



**PIN UN, Proper Shipping** Shipping name: Corrosive liquids n.o.s. UNNA: 1760 PG: II Name, **PG** 

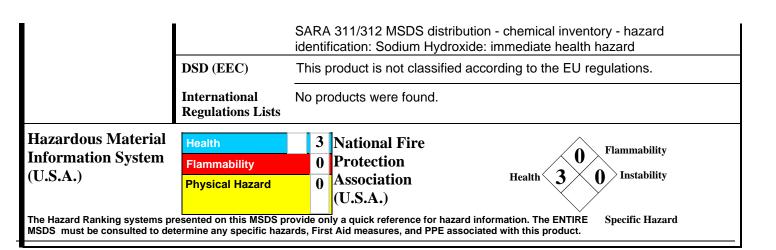
Maritime Transportation Not available.

**Special Provisions for** 

Transport

Not available.

WHMIS (Classification)	WHMIS CLASS E: Corrosive liquid.				
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: Corrosive liquid.			
	USA Regulatory Lists	California prop. 65: This product contains the following ingredients for which the State of California has found to cause reproductive harm (female) which would require a warning under the statute: Ethylene Oxide < 1 ppm California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: Ethylene Oxide < 1 ppm Massachusetts RTK: Ethylene Oxide			



#### Section 16. Other Information

Validated by CRushton on 3/2/2007.

Verified by CRushton. Printed 3/24/2007.

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.

Validated on 3/2/2007.

Factory Formula HP

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