

## **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	ation
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Product Name/ Trade name	Hard As Nails	Code		659
Synonym	Not available.	CAS#		Mixture.
Chemical Family	Not available.	Validation 1	Date	6/28/2005
Chemical Formula	Not applicable.	Print Date		6/28/2005
Manufacturer/ Supplier	Betco Corporation 1001 Brown Avenue Toledo, Ohio 43607 (800) 666-2156	In Case of Emergency	CHE	EMTREC (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

Protecti	ve Clo	thing
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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>
Acrylate Copolymer Diethylene Glycol Ethyl Ether	N/A 111-90-0	10 - 15 1 - 5	Not available. TWA: 25 ppm CEIL: 25 ppm	Not available. ORAL (LD50): Acute: 5540 mg/kg [Rat].
Dipropylene Glycol Methyl Ether Tributoxyethyl Phosphate Oxidized Ethylene Copolymer Ammonium Hydroxide Potassium Hydroxide Ethoxylated Secondary Alcohol	34590-94-8 78-51-3 68441-17-8 1336-21-6 1310-58-3 TSRN 48515005-5071	1 - 5 1 - 5 1 - 2 1 - 2 0.1 - 1 0.1 - 1	Not available.	Not available.

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**Potential Acute Health Effects** 

Hazardous in case of eye contact (irritant), of ingestion. Slightly hazardous in case of skin

contact (irritant), .

**Potential Chronic Health** 

Repeated skin exposure can produce local skin destruction, or dermatitis.

**Effects** 

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

Section 4. First Aid Measures			
<b>Eye Contact</b>	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.		
Skin Contact	Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops. Cold water may be used.		
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms appear.		
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		
<b>Products of Combustion</b>	Not applicable.	
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	Dilute with water and mop up, or absorb with an inert dry 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. Absorb with DRY earth, sand or other non-combustible material. 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. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.		

Section 7. Handling and Storage			
Precautions	Do not ingest. Do not breathe gas/fumes/ vapor/spray. Avoid contact with eyes. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents, acids, alkalis.		
Incompatibility	Reactive with oxidizing agents, acids, alkalis.		
Storage	Keep container tightly closed. Keep container in a cool, well-ventilated area.		

<b>Engineering Controls</b>	Good general ventilation should be sufficient to control airborne levels. Ventilation is normally required when handling or using this product. If user operations generate dust, fume or mist use ventilation to keep exposure to airborne contaminants below the exposure limit.
Personal Protection  Eyes	Safety glasses.
Body	Lab coat.
Respiratory	A respirator is not needed under normal and intended conditions of product use. Wear appropriate respirator when ventilation is inadequate.
Hands	Nitrile gloves. Butyl 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.
pН	Not available.	Color	White.
Boiling/Condensation Point	100°C (212°F)		
Melting/Freezing Point	May start to solidify at 0°C (32°F) based or	n data for	: Water.
Critical Temperature	Not available.		
Instability Temperature	Not available.		
<b>Specific Gravity</b>	1.01 (Water = 1)		
Vapor Pressure	Not available.		
Vapor Density	Not available.		
Volatility	>50% (w/w).		
VOC	62.034 (g/l).		
<b>Evaporation Rate</b>	<1 compared to Butyl acetate.		
<b>Dispersion Properties</b>	See solubility in water, methanol, acetone.		
Solubility	Easily soluble in methanol, acetone. Partially 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.		

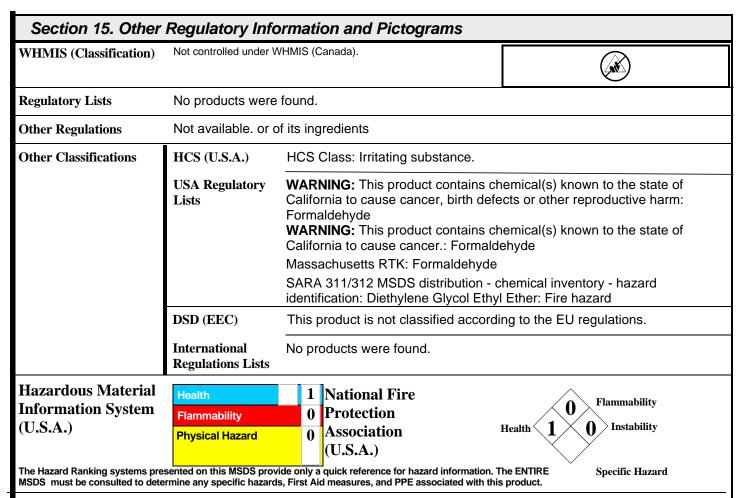
Section 10. Stability and Reactivity Data			
Stability	The product is stable.		
Incompatibility with Various Substances	Reactive with oxidizing agents, acids, alkalis.		
Hazardous Decomposition Products	Not available.		

Section 11. Toxicological Information				
<b>Routes of Entry</b>	Dermal contact. Eye contact. Inhalation. Ingestion.			
<b>Toxicity to Animals</b>	Acute oral toxicity (LD50): 5540 mg/kg [Rat]. (Diethylene Glycol Ethyl Ether).			
<b>Acute Effects on Humans</b>				
Eyes	Hazardous in case of eye contact (irritant).			
Skin	Sensitization of the product: Not available. Slightly hazardous in case of skin contact (irritant). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.			
Inhalation	May be irritating to respiratory system, especially at elevated temperatures.			
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	These products are nitrogen oxides (NO, NO <sub>2</sub> ).		
Toxicity of the Products o Biodegradation	f Not available.		
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.			

## DOT (U.S.A) (Pictograms) TDG Classification PIN UN, Proper Shipping Not applicable. Name, PG Maritime Transportation Not available. Special Provisions for Transport



Section 16. Other Information					
Validated by CRushton on 6/28/2005.	Verified by CRushton. Printed 6/28/2005.				
Information Contact COMPANY NAME COMPANY ADDRESS EMERGENCY PHONE					
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.

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