

# Betco Corporation

## Material Safety Data Sheet

(Prepared According To 29 CFR 1910.1200)

Effective Date: 2/23/96

A=Not Applicable

### SECTION 1 - PRODUCT IDENTIFICATION

Product Number: 180  
Product Name: Knuckle Under  
Generic Name: Industrial Hand Cleaner  
Supplier's Name: Betco Corporation  
Supplier's Address: 1001 Brown Avenue, Toledo, Ohio 43607  
Chemical Family: N/A  
Formula: N/A  
Phone Number: (419) 241-2156  
Emergency:

#### NPCA Hazardous Materials Identification System

Health	1
Flammability	0
Reactivity	0
Maximum Personal Protection	A

### SECTION 2 - INGREDIENTS

INGREDIENT NAME	CAS NO.	WT. %	PEL	TWA-TLV	STEL-TLV	CARCINOGEN
Water	7732-18-5	to 100				No
Petroleum Distillates	64742-96-7	15 to 20	100 ppm	100 ppm	N/A	No
Natural Cellulose	N/A	5 to 10				No
Sodium Lauryl Sulfate	151-21-3	5 to 10				No
Dichloromethoxyethanol	88-04-0	0 to 5				No
Hymer Emulsion	N/A	0 to 5				No
Propylene Glycol	57-55-6	0 to 5				No
Hydrated Castor Oil	8002-33-3	0 to 5				No
Diethanolamine	8051-30-7	0 to 5				No
Camidopropyl Betaine	61789-40-0	0 to 5				No
Quaternium Dioxide	13463-67-7	0 to 5				No
Essential Perfume Oil	N/A	0 to 5				No
Sodium Chloride	7647-15-5	0 to 5				No
Other	N/A	0 to 5				No

### SECTION 3 - PHYSICAL DATA

Boiling Range: NE  
Vapor Pressure: <20mm Hg @ 68°F  
Volatile: 75+  
Solubility in Water: Partial.  
Physical Description: Thick natural paste with lime odor.  
Specific Gravity: .803  
Vapor Density: (Air=1):>1  
pH: 7.0 - 8.0  
Evaporation Rate: (Water=1):<1

### SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

Concentrate Flash Point (Method): N/A  
Propellant Flash Point (Method): N/A  
Flash Point (Method): None to boiling. (TCC)  
Extinguishing Media: N/A  
Special Fire Fighting Procedures: N/A  
Unusual Fire and Explosion Hazards: N/A  
Explosive Limits  
Upper: N/A  
Lower: N/A

### SECTION 5 - REACTIVITY DATA

Stability: Stable.  
Compatibility (Materials to Avoid): None known.  
Hazardous Polymerization: Will not occur.  
Hazardous Decomposition Products: None known.

### SECTION 6 - STORAGE AND HANDLING INFORMATION

Precautions to be Taken in Handling and Storage:  
Keep out of reach of children.  
Keep container closed during storage. For institutional and commercial use.

### SECTION 7 - HEALTH HAZARDS AND FIRST AID

Effects of Overexposure:  
Primary Route of Entry:  
Skin: May be defatting to skin on repeated contact.  
Eyes: May be irritating to the eyes.  
Inhalation: N/A  
Ingestion: Large doses may cause vomiting or diarrhea.  
First Aid Procedures:  
Skin: N/A  
Eyes: Flush eyes with large quantities of water. Do not rub eyes. Seek medical attention if irritation persists.  
Inhalation: N/A  
Ingestion: Dilute with two glasses of water. Seek medical attention if symptoms persist.

### SECTION 8 - SPECIAL PROTECTION INFORMATION

Respiratory Protection: No special requirements.  
Protective Gloves: N/A  
Other Protective Equipment: N/A  
Ventilation: Good general ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.  
Eye Protection: N/A

### SECTION 9 - SPILL OR LEAK PROCEDURES

Steps to be Taken in Case Material is Released or Spilled:  
Waste Disposal Method:  
Scoop up or otherwise absorb and hold for disposal.  
Any method in accordance with applicable laws.