




Material Safety Data Sheet

This MSDS is prepared in accordance with OSHA 29 CFR 1910.1200

	Not controlled under WHMIS (Canada).	Not controlled under the HCS (United States).
WHMIS (Pictograms)	WHMIS (Classification)	HCS

Section 1. Chemical Product and Company Identification

Product Name/ Trade name	Knuckle Under Heavy Duty Hand Cleaner with Walnut Shell	Code	761
Synonym	Hand Cleaner	CAS #	Mixture.
Chemical Family		Validation Date	4/14/2005
Chemical Formula	Not applicable.	Print Date	4/14/2005
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			

Section 2. Composition and Information on Ingredients

Name	CAS #	% by Weight	Exposure Limits	LC ₅₀ /LD ₅₀
Isoparaffinic Hydrocarbon	64742-47-8	10 - 15	TWA: 100 ppm OSHA (United States). TWA: 300 ppm	Not available.
Walnut Shells	Not Applicable	5 - 10	Not available.	Not available.
Sodium Laureth Sulfate	68585-34-2	1 - 5	Not available.	Not available.
Triethanolamine	102-71-6	1 - 5	Not available.	ORAL (LD50): Acute: 4000 mg/kg [Rat].

Section 3. Hazards Identification

Potential Acute Health Effects	This product is an eye irritant. Walnut shells may cause mechanical irritation.
Potential Chronic Health Effects	This product may aggravate existing skin conditions such as dermatitis.
Carcinogenic Effects	Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.

Section 4. First Aid Measures

Eye Contact	Avoid contact with eyes. In case of eye contact. DO NOT RUB eyes. Flush with large quantities of water.
Skin Contact	NO KNOWN EFFECT.
Inhalation	NO known EFFECT according to our data base.

Ingestion	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
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Section 5. Fire Fighting Measures

Products of Combustion	Not available.
Fire Fighting Media and Instructions	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.
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. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
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	Gloves. Safety glasses.

Section 7. Handling and Storage

Precautions	Avoid contact with eyes
Incompatibility	Not available.
Storage	Keep container dry. 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	No special containment is required.
Personal Protection	
<i>Eyes</i>	No special recommendations.
<i>Body</i>	No special recommendations.
<i>Respiratory</i>	No special recommendations.
<i>Hands</i>	No special recommendations.
Protective Clothing (Pictograms)	
Exposure Limits	Not available.

Section 9. Physical and Chemical Properties

Physical State and Appearance	Liquid.	Odor	Fresh
Molecular Weight	Not applicable.	Taste	
pH	6.5 to 8.5 [Basic.]	Color	Brown.
Boiling/Condensation Point	100°C (212°F)		
Melting/Freezing Point	Not available.		

Critical Temperature	Not available.
Instability Temperature	Not available.
Specific Gravity	0.9655 (Water = 1)
Vapor Pressure	Not available.
Vapor Density	Not available.
Volatility	Not available.
VOC	Not available.
Evaporation Rate	Not available.
Dispersion Properties	See solubility in water.
Solubility	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	Not available.
Explosion Hazards in Presence of Various Substances	Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

Section 10. Stability and Reactivity Data

Stability	The product is stable.
Incompatibility with Various Substances	Not available.
Hazardous Decomposition Products	Not available.

Section 11. Toxicological Information

Routes of Entry	Eye contact. Ingestion.
Toxicity to Animals	Acute oral toxicity (LD50): 4000 mg/kg [Rat]. (Triethanolamine).
Acute Effects on Humans	
	<i>Eyes</i> Irritant.
	<i>Skin</i> Non-irritating .
	<i>Inhalation</i> According to our data base, the product will not easily enter the human body.
	<i>Ingestion</i> May cause nausea, vomiting and diarrhea. May cause gastrointestinal discomfort.
Chronic Effects on Humans	This product may aggravate existing skin conditions such as 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 Not available.

Toxicity of the Products of Biodegradation Not available.

Special Remarks on the Products of Biodegradation Not available.

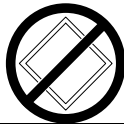
Section 13. Disposal Considerations

Waste Information Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Waste Stream Not available.

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 No products were found.

Other Regulations Not available. or of its ingredients

Other Classifications HCS (U.S.A.) Not controlled under the HCS (United States).

USA Regulatory Lists Pennsylvania RTK: Propylene Glycol

DSD (EEC)

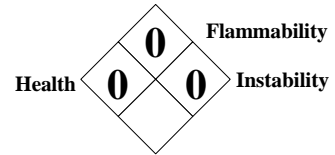
International
Regulations Lists

No products were found.

**Hazardous Material
Information System
(U.S.A.)**

Health	1
Flammability	0
Physical Hazard	0

**National Fire
Protection
Association
(U.S.A.)**



The Hazard Ranking systems presented on this MSDS provide only a quick reference for hazard information. The ENTIRE MSDS must be consulted to determine any specific hazards, First Aid measures, and PPE associated with this product.

Specific Hazard

Section 16. Other Information

Validated by CRushton on 4/14/2005.

Verified by CRushton.

Printed 4/14/2005.

**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 4/14/2005.

**Knuckle Under Heavy Duty Hand
Cleaner with Walnut Shell**

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