

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

		Not controlled under WHMIS (Canada).		controlle tes).	ed under the HCS (United
WHMIS (Pictogra	ms)	WHMIS (Classification)	HCS		HCS
Section 1. Che	emica	Product and Company Identification			
Product Name/ Trade name	Cle	uckle Under Heavy Duty Hand aner With Citrus Solvents and nice	Code		762
Synonym	Not a	vailable.	CAS#		Mixture.
Chemical Family	Not A	pplicable	Validati	on Date	3/11/2005
Chemical Formula	Not a	oplicable.	Print Da	ate	3/11/2005
Manufacturer/ Supplier	Betco 1001 Toled	Corporation Brown Avenue o, Oh 43607 241-2156	In Case of Emergence		emtrec (800) 424-9300
TSCA	TSCA 1	nventory: All components listed or are exempt from listing.			
DSL/ NDSL	All con	nponents listed unless noted elsewhere on this MSDS		Pro	tective Clothing

Section 2. Composition and Information on Ingredients				
Name	CAS#	% by Weight	Exposure Limits	LC ₅₀ /LD ₅₀
Pumice Low Odor Base Solvent	N/A 64742-47-8	10 - 15 5 - 10	Not available. TWA: 100 ppm OSHA (United States). TWA: 100 ppm	Not available. Not available.
Petroleum Distillates	64742-47-8	1 - 5	TWA: 100 ppm OSHA (United States). TWA: 300 ppm	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.	
Potential Chronic Health Effects	Repeated skin exposure can produce local skin destruction, or 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 contact with eyes, rinse immediately with plenty of water.	
Skin Contact	Repeated skin exposure can produce local skin destruction, or dermatitis. In case of prolonged irritation seek medical attention.	
Inhalation	No specific data.	
Ingestion	Seek medical attention.	

Section 5. Fire Fig	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	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	Gloves. Safety glasses.	

Section 7. Handling and Storage		
Precautions	Avoid contact with eyes	
Incompatibility	Reactive with oxidizing agents, reducing agents.	
Storage	Keep out of the reach of children. Not for use or storage in or around the home.	

Section 8. Exposur	re Controls/Personal Protection
Engineering Controls	Good general ventilation should be sufficient to control airborne levels.
Personal Protection	
Eyes	No special recommendations.
Body	No special recommendations.
Respiratory	No special recommendations.
Hands	No special recommendations.
Protective Clothing (Pictograms)	
L	Low Odor Base Solvent
	TWA: 100 (ppm)
	TWA: 100 (ppm) from OSHA (PEL) [United States]
	Consult local authorities for acceptable exposure limits.

Section 9. Physica	al and Chemical Properties		
Physical State and Appearance	Liquid.	Odor	Citrus
Molecular Weight	Not applicable.	Taste	Not available.
рН	7 to 8 [Basic.]	Color	Orange.
Boiling/Condensation Point	>100°C (212°F)		
Melting/Freezing Point	Not available.		
Critical Temperature	Not available.		
Instability Temperature	Not available.		
Specific Gravity	1.026 (Water = 1)		
Vapor Pressure	Not available.		
Vapor Density	Not available.		
Volatility	Not available.		
VOC	Not available.		
Evaporation Rate	Not available.		
D:	0		
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: >100°C (212°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 preser Risks of explosion of the product in preser		

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

Section 11. Toxico	logical Information
Routes of Entry	Eye contact. Ingestion.
Toxicity to Animals	Acute oral toxicity (LD50): 4000 mg/kg [Rat]. (Triethanolamine). Acute dermal toxicity (LD50): 5000 mg/kg [Rabbit]. (Citrus Terpenes).
Acute Effects on Humans	
Eyes	Irritant.
Skin	Not expected to cause irritation on an acute basis.
Inhalation	According to our data base, the product will not easily enter the human body.
Ingestion	May cause gastrointestinal discomfort.
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. Ecolog	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 Not applicable. Name, PG

Maritime Transportation Not available.

Special Provisions for

Transport

Not applicable.

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		
		SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Citrus Terpenes: fire, immediate health hazard		
	DSD (EEC)			
	International Regulations Lists	No products were found.		
Hazardous Material Information System (U.S.A.)	Health Flammability Physical Hazard	1 National Fire 0 Protection 0 Association (U.S.A.)	Health $egin{pmatrix} 0 & \text{Flammability} \\ \hline 1 & 0 & \text{Instability} \end{bmatrix}$	

Section 16. Other Information

Validated by DThomas on 3/11/2005.

Verified by DThomas.

Printed 3/11/2005.

Information Contact Betco Corporation

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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 3/11/2005. Knuckle Under Heavy Duty Hand
Cleaner With Citrus Solvents and
Pumice

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