




MATERIAL SAFETY DATA SHEET

HD501 Diamond Glass Kleen Concentrate

This MSDS is prepared in accordance with OSHA 29 CFR 1910.1200

 WHMIS (Pictograms)	WHMIS CLASS : D2B Material causing other toxic effects WHMIS (Classification)	HCS CLASS: Cleaning Compound HCS
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Section 1. Chemical Product and Company Identification

Product Name/Trade Name	Glass Kleen Concentrate PC# 501	Code	501 6DPGC0G
Synonym	Water based glass cleaner	CAS #	Not Applicable.
Chemical Family	Not available	Validation Date	jan 21, 2015
Chemical Formula	Not applicable	In Case of Emergency	8010-813-9621
Manufacturer/Supplier	Diamond Product 61 Shaver St. PO BOX 1507 Brantford, ON N3T 5V6	Protective Clothing	
TSCA	TSCA Inventory: All components listed or are exempt from listing	 	
DSL/NDSL	All components listed unless noted elsewhere on this MSDS		

Section 2. Hazardous Composition and Information on Ingredients

Name	CAS #	% by Weight	Exposure Limits	LD50/LC50
2-butoxy ethanol	111-76-2	40-60	25 ppm	1.48 g/kg (rat oral)/Not available
Alcohol ethoxy sulfate	9004-82-4	1-10	1000 ppm	4090 mg/kg (rat oral)/2300 mg/m3 (rat 2H)

Section 3. Hazards Identification

Potential Acute Health Effects	May cause irritation to eyes and skin. May be harmful if swallowed. Overexposure to 2-butoxy ethanol vapors may cause central nervous system effects including headache, nausea, dizziness.
Potential Chronic Health Effects	Overexposure to 2-butoxy ethanol (butyl) may cause damage to one or more of target organs.
Carcinogenic Effects	NTP? No, IARC Monographs? No, OSHA Regulated? No
Target Organs:	Liver, kidneys, lymphoid system, skin, blood, eyes, and respiratory system.
Medical conditions generally aggravated by exposure	Not available

Section 4. First Aid Measures

Eye Contact	Flush eyes with running water for at least 15 minutes. If irritation persists obtain medical attention.
Skin Contact	Flush thoroughly with cool water. Remove and wash contaminated clothing before reuse.
Ingestion	Do Not induce vomiting. Drink water in large amounts and call physician immediately. Never give anything by mouth to an unconscious person.
Inhalation	Remove to fresh air.
	Sources Used: Raw material data, general toxicology from the trade for similar products.

Section 5. Fire Fighting Measures



Flammability	No
Fire Fighting Media and Instruction	Not applicable
Special Remarks on Fire Hazards	Not Available
Special Remarks on Explosion Hazards	Not Available

Section 6. Accidental Release Measures

Accidental Spill or Leak	Dike and contain spill with inert material (sand, earth, etc). Collect spill with mop, absorbent material (ex: floor-dri) or vacuum. Thoroughly rinse affected area with water.
Personal Protection in Case of a Spill	Approved safety goggles or glasses, Natural rubber or synthetic gloves.

Section 7. Handling and Storage

Precautions	Normal care in handling and storage. Keep out of reach of children. Keep from freezing.
Incompatibility	Not available
Storage	Normal care in handling and storage. Keep out of reach of children. Keep from freezing.

Section 8. Exposure Controls/Personal Protection	
Engineering Controls	Ventilate to keep vapor levels below exposure limits.
Personal Protection	<i>Eyes</i> Approved safety goggles or glasses.
	<i>Body</i> No special protective clothing is required.
	<i>Respiratory</i> Not normally required in general use. Keep exposure limits to vapors below exposure limits.
	<i>Hands</i> Gloves Rubber or synthetic.
Protective Clothing (pictogram)	 
Work/Hygienic Practices	Do not contaminate food or beverages with cleaning chemicals.

Section 9. Physical and Chemical Properties			
Physical State and Appearance	Liquid.	Odor	Solvent odor
Molecular Weight	Not applicable		
pH	7-10	Color	Blue
Boiling/Condensation Point	approx 212°F		
Melting/Freezing Point	Not Available.		
Critical Temperature	Not Available.		
Instability Temperature	Not Available.		
Specific Gravity	.9-1.1 (1=H2O)		
Vapor Pressure	Not Available.		
Vapor Density	>1 (Air =1)		
Volatility	>75%		
VOC	Not available.		
Evaporation Rate	Not Available.		
Dispersion Properties	Not available		
Solubility in water	Complete		
The Product is:	Non-flammable		
Auto-ignition Temperature	Not applicable		
Flash Points	None		
Flammable Limits	Not applicable		
Fire Hazards in Presence of Various Substances	Not available		
Explosion Hazards in Presence of Various Substances	Not available		


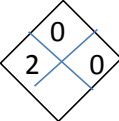
Section 10. Stability and Reactivity Data	
Stability	This product is stable.
Incompatibility with Various Substances	Not available
Hazardous Decomposition Products or byproducts.	Not available

Section 11. Toxicological Information	
Routes of Entry	Skin Absorption, Ingestion, Inhalation, Eye Contact
Acute Effects on Humans	<i>Eyes</i> May cause irritation on contact.
	<i>Skin</i> May cause irritation on contact.
	<i>Inhalation</i> Over exposure to 2-butoxy ethanol (butyl) vapors may cause central nervous system effects including drowsiness, headaches, nausea & dizziness.
	<i>Ingestion</i> May be harmful if swallowed.
Chronic Effects on Humans	Over exposure to 2-butoxy ethanol may cause damage to one or more of target organs listed Section 3
Special Remarks on Effects on Humans	None known
Teratogen, Mutagen, Reproductive Toxin Status	No known relevance to humans.
Toxicologically Synergistic Products	Not available

Section 12. Ecological Information	
Ecotoxicity	Not available.
Chemical Fate Info	Not available.

Section 13. Disposal Considerations	
Waste Information	Dispose of spilled material in accordance with local, state and federal regulations. Waste from normal cleaning procedures may be sewered, depending on materials and/or contaminants being cleaned as well as state, federal and local sewer commission regulations.
Waste Stream	Not available

Section 14. Transport Information	
DOT (U.S.A.) (Pictograms)	
TDG Classification	Not regulated
PIN UN, Proper Shipping Name, PG	Shipping name: Compound, Cleaning liquid, n.o.s., UN# - Not applicable
Maritime Transportation	Not applicable
Special Provisions for Transport	Not available.

Section 15. Other Regulatory Information and Pictograms								
WHMIS (Classification)	WHMIS Class: D-2 Material causing other toxic effects TDG Class (Not controlled under TDG (Canada)							
								
Regulatory Lists	All ingredients listed.							
Other Classifications	<table border="1"> <tr> <td>CERCLA Reportable Quality</td> <td>Not available</td> </tr> <tr> <td>SARA Title III</td> <td>Section 302 Extremely Hazardous Chemicals: NONE Section 311/312 Hazard Category: Immediate Health, Chronic Health Section 313 Toxic Chemicals: 2-butoxy ethanol (glycol ether)</td> </tr> <tr> <td>WHMIS Class D (D2B)</td> <td>Risk phrases: R22,R36, R37, R38 Precautions: S2, S24, S46</td> </tr> </table>	CERCLA Reportable Quality	Not available	SARA Title III	Section 302 Extremely Hazardous Chemicals: NONE Section 311/312 Hazard Category: Immediate Health, Chronic Health Section 313 Toxic Chemicals: 2-butoxy ethanol (glycol ether)	WHMIS Class D (D2B)	Risk phrases: R22,R36, R37, R38 Precautions: S2, S24, S46	
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Hazardous Material Information System (U.S.A.)	<table border="1"> <tr> <td>Health</td> <td>2</td> <td rowspan="3">National Fire Protection Association (U.S.A.)</td> </tr> <tr> <td>Flammability</td> <td>0</td> </tr> <tr> <td>A. Reactivity Hazard</td> <td>0</td> </tr> </table> <div style="display: flex; align-items: center; margin-left: 20px;"> <div style="margin-right: 10px;">Health</div>  <div style="margin-left: 10px;">Flammability</div> <div style="margin-left: 10px;">A.Reactivity Hazard</div> </div>	Health	2	National Fire Protection Association (U.S.A.)	Flammability	0	A. Reactivity Hazard	0
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The Hazard Ranking systems presented on this MSDS provide only a quick reference for hazard information. The ENTIRE Specific Hazard MSDS must be consulted to determine any specific hazards, First Aid measures, and PPE associated with this product.								

Section 16. Other Information	
Prepared by Hawco Products Ltd.	Verified by A White Jan 21, 2015
Information Contact	Hawco Products Ltd./Diamond Products 61 Shaver St PO BOX 1507. Brantford, ON N3T 5V6

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