




MATERIAL SAFETY DATA SHEET

This MSDS is prepared in accordance with OSHA 29 CFR 1910.1200

 WHMIS (Pictograms)	WHMIS CLASS : D-2 Material causing other toxic effects WHMIS (Classification)	HCS CLASS: Cleaning Compound HCS
Section 1. Chemical Product and Company Identification		
Product Name/Trade Name	Diamond Glass Cleaner with Ammonia RTU PC 401	Code 401 6ULGR32
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 800-813-9621
Manufacturer/Supplier	Diamond Products 61 Shaver St. PO BOX 1507 Brantford, ON N3T 5V6 519-759-2443	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
IPA	67-51-1	<10	200 ppm	not available
Ammonia	1336-21-6	<1	25-50 ppm	Not available
2-Butoxy Ethanol	111-76-2	<1	25 ppm	1.48 g/kg (rat oral)/ not available

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	Not normally combustible, but if dehydrated, the residual materials is a combustible organic substance
Fire Fighting Media and Instruction	Water fog, dry chemical, carbon dioxide
Special Remarks on Fire Hazards	Not normally combustible, but if dehydrated, the residual materials is a combustible organic substance.
Special Remarks on Explosion Hazards	Not Available

Section 6. Accidental Release Measures	
Accidental Spill or Leak	Dike and contain spill, return to container for disposal. 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 & storage. Keep out of reach of children. Keep from freezing. Do not store above 90 c.
Incompatibility	Strong Oxidizing Agents
Storage	Normal care in handling & storage. Keep out of reach of children. Keep from freezing. Do not store above 90 c.

**PC #401 Diamond
Glass Cleaner RTU**

Section 8. Exposure Controls/Personal Protection	
Engineering Controls	General mechanical ventilation.
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.


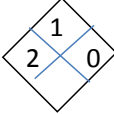
Section 9. Physical and Chemical Properties			
Physical State and Appearance	Liquid.	Odor	Ammonia odor
Molecular Weight	Not applicable		
pH	Not Available.	Color	purple
Boiling/Condensation Point	approx 212°F		
Melting/Freezing Point	Not Available.		
Critical Temperature	Not Available.		
Instability Temperature	Not Available.		
Specific Gravity	0.964		
Vapor Pressure	Not Available.		
Vapor Density	>1 (Air =1)		
Volatility	Not Available.		
VOC	Not available.		
Evaporation Rate	>1		
Dispersion Properties	Not available		
Solubility in water	Complete		
The Product is:	Not normally flammable, but if dehydrated, the residual material is a combustable organic substance		
Auto-ignition Temperature	Not available		
Flash Points	Not available		
Flammable Limits	Not available		
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	Strong oxidizing agents
Hazardous Decomposition Products or byproducts.	Carbon Monoxide and/or carbon dioxide

Section 11. Toxicological Information	
Routes of Entry	Skin Absorption, Ingestion, Inhalation, Eye Contact
Acute Effects on Humans	<i>Eyes</i> Moderate eye irritation
	<i>Skin</i> Mild skin irritation.
	<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.

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 sewerred, 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>National Fire</td> </tr> <tr> <td>Flammability</td> <td>1</td> <td>Protection</td> </tr> <tr> <td>A. Reactivity Hazard</td> <td>0</td> <td>Association (U.S.A.)</td> </tr> </table> <div style="display: flex; align-items: center; justify-content: center; margin-top: 10px;"> <div style="text-align: center;">  <p>Health</p> </div> <div style="margin-left: 20px;"> <p>Flammability</p> <p>A. Reactivity Hazard</p> </div> </div> <p>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.</p>	Health	2	National Fire	Flammability	1	Protection	A. Reactivity Hazard	0	Association (U.S.A.)
Health	2	National Fire								
Flammability	1	Protection								
A. Reactivity Hazard	0	Association (U.S.A.)								

Section 16. Other Information	
Prepared by Hawco Products Ltd.	Verified by A White Jan 21, 2015

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.