



MATERIAL SAFETY DATA SHEET

PC HD21 Double Diamond Machine Detergent

This MSDS is prepared in accordance with OSHA 29 CFR 1910.1200

 <p>WHMIS (Pictograms)</p>		<p>WHMIS CLASS E: Corrosive liquid. WHMIS CLASS D-1 Material causing immediate and serious toxic effects.</p> <p>WHMIS (Classification)</p>	<p>HCS CLASS: Corrosive Liquid</p> <p>HCS</p>
Section 1. Chemical Product and Company Identification			
Product Name/Trade Name	Double Diamond Machine Detergent - HD21	Code	6DDM00
Synonym	Liquid Detergent	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 Shave St PO. Box 1507 Brantford, ON N3T 5V6 519-759-2443	<p>Protective Clothing</p> 	
TSCA	TSCA Inventory: All components listed or are exempt from listing		
DSL/NDSL	All components listed unless noted elsewhere on this MSDS		

Section 2. Information on Hazardous Ingredients				
Name	CAS #	% by Weight	Exposure Limits	LC50/LD50
Potassium Hydroxide	1310-58-3	<30	2 mg/M3	n/a 205 mg/kg (rat,oral)
Tetrapotassium Pyrophosphate	7320-34-5	<5	Not applicable	1.10mg/l(rat4H)/2980mg/kg(rat,oral)
Sodium Polyacrylate	Mixture	<2	Not applicable	n/a / 2500 mg/kg (rat, oral)



Section 3. Hazards Identification	
Potential Acute Health Effects	Corrosive to skin & eyes. May cause chemical burns to skin & eyes on contact. Harmful if swallowed. No hazardous vapors. May cause burning, tearing, redness or corneal damage to eyes. Skin contact may produce slippery feeling, redness, swelling and burns. Symptoms may be delayed.
Potential Chronic Health Effects	Not Available
Carcinogenic Effects	NTP? Yes (chemical C), IARC Monographs? No, OSHA Regulated? No
Target Organs:	Not available
Medical conditions generally aggravated by exposure	Not available

Section 4. First Aid Measures	
Eye Contact	Flush with running water for 15 minutes. Obtain immediate medical attention.
Skin Contact	Flush thoroughly with cool water. Remove and wash contaminated clothing before reuse. If irritation persists, seek medical attention.
Inhalation	Not applicable. No hazardous vapors.
Ingestion	DO NOT INDUCE Vomiting! Drink water in large amounts and call a physician immediately. Never give anything by mouth to an unconscious person. Sources Used: Raw material data, general toxicology from the trade for similar products.

Section 5. Fire Fighting Measures	
Products of Combustion	Non-Flammable
Fire Fighting Media and Instruction	N/A
Special Remarks on Fire Hazards	N/A
Special Remarks on Explosion Hazards	N/A

Section 6. Accidental Release Measures	
Small Spill and Leak	Dike and contain spill with inert material (sand, earth, etc.) Collect spill with mop, absorbant material (example: floor-dri) or vacuum. Thoroughly rinse affected area with water.
Large Spill and Leak	Dike and contain spill with inert material (sand, earth, etc.) Collect spill with mop, absorbant material (example: floor-dri) or vacuum. Thoroughly rinse affected area with water.
Personal Protection in Case of a Large Spill	Approved safety goggles or glasses. Protective gloves: natural rubber or synthetic. Footwear not required.

Section 7. Handling and Storage	
Precautions	Normal care in handling and storage. Keep out of reach of children. Keep from freezing.
Incompatibility	Strong acids, Strong oxidizers.
Storage	Normal care in handling and storage. Keep out of reach of children. Keep from freezing.

Section 8. Exposure Controls/Personal Protection	
Engineering Controls	Good general ventilation should be sufficient to control airborne levels. Dust/Mist respirator is recommended when spraying product.
Personal Protection	Eyes <u>Approved safety goggles or glasses.</u>
	Body <u>Not required</u>
	Respiratory <u>Wear appropriate respirator when spraying product.</u>
	Hands <u>Gloves (natural rubber or synthetic)</u>
Protective Clothing (pictogram)	 
Work/Hygienic Practices	Do not contaminate food or beverages with cleaning chemicals, use potable water rinse.
Exposure Limits	Consult local authorities for acceptable exposure limits.



Section 9. Physical and Chemical Properties			
Physical State and Appearance	Liquid.	Odor	Low Odor
Molecular Weight	Not applicable		
pH	12.5 - 13.5	Color	Clear
Boiling/Condensation Point	approx 212°F		
Melting/Freezing Point	Not Available.		
Critical Temperature	Not Available.		
Instability Temperature	Not Available.		
Specific Gravity	1.375 (water=1)		
Vapor Pressure	Not Available.		
Vapor Density	Not Available.		
Volatility	Not applicable		
VOC	Not available.		
Evaporation Rate	Not Available.		
Dispersion Properties	Not available.		
Solubility	Complete in water		
The Product is:	Stable		
Auto-ignition Temperature	Not available.		
Flash Points	Not available.		
Flammable Limits	Not available.		
Fire Hazards in Presence of Various Substances	No specific information is available in our database regarding the flammability of this product in the presence of various materials.		
Explosion Hazards in Presence of Various Substances	No specific information is available in our database regarding the product's risks of explosion in the presence of various materials.		



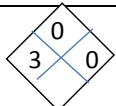
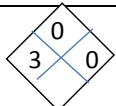
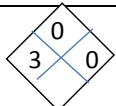
Section 10. Stability and Reactivity Data	
Stability	<u>This product is stable.</u>
Incompatibility with Various Substances	<u>Strong acids. Strong oxidizers.</u>
Hazardous Decomposition Products	<u>Will not occur.</u>

Section 11. Toxicological Information	
Routes of Entry	<u>Skin Absorption, Ingestion, Inhalation, Eye Contact</u>
Acute Effects on Humans	Eyes <u>Corrosive to eyes on contact. Possible burning, tearing, redness & corneal damage.</u>
	Skin <u>Corrosive to skin. Possible slippery feeling, redness swelling & chemical burns.</u> <u>SYMPTOMS MAY BE DELAYED.</u>
	Inhalation <u>No hazardous vapors.</u>
	Ingestion <u>Harmful if swallowed.</u>
	Chronic Effects on Humans
Special Remarks on Chronic Effects on Humans	<u>No additional remark.</u>
Teratogen, Mutagen, Reproductive Toxin Status	<u>No</u>
Toxicologically Synergistic Products	<u>Not available</u>

Section 12. Ecological Information

Ecotoxicity	Not available. HD21 Double Diamond Machine Detergent
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	
Biodegradation	No additional remark.
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 the 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	8 
PIN UN, Proper Shipping Name, PG	Shipping name: Corrosive liquids, basic inorganic, n.o.s. (potassium hydroxide) UNNA: 3266 PG: II
Maritime Transportation	Not available.
Special Provisions for Transport	Not available.

Section 15. Other Regulatory Information and Pictograms													
WHMIS (Classification)	WHMIS CLASS E: Corrosive Liquid. immediate health hazard  												
Regulatory Lists	All ingredients listed.												
Other Regulations	OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).												
Other Classifications	<table border="0"> <tr> <td>CERCLA Reportable Quality</td> <td>Not available</td> </tr> <tr> <td>SARA Title III</td> <td></td> </tr> <tr> <td>Section 302 Extremely Hazardous Chemicals:</td> <td>None</td> </tr> <tr> <td>Section 311/312 Hazard Category:</td> <td>Immediate Health Hazard</td> </tr> <tr> <td>Section 313 Toxic Chemicals:</td> <td>Non</td> </tr> <tr> <td>WHMIS CLASS E</td> <td>Risk Phrase: R21, R22, R41 Precautions: S2, S26, S62</td> </tr> </table>	CERCLA Reportable Quality	Not available	SARA Title III		Section 302 Extremely Hazardous Chemicals:	None	Section 311/312 Hazard Category:	Immediate Health Hazard	Section 313 Toxic Chemicals:	Non	WHMIS CLASS E	Risk Phrase: R21, R22, R41 Precautions: S2, S26, S62
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Hazardous Material Information System (U.S.A.)	<table border="1"> <tr> <td>Health</td> <td>3</td> <td>National Fire Protection Association (U.S.A.)</td> <td rowspan="3"></td> </tr> <tr> <td>Flammability</td> <td>0</td> <td>Health</td> </tr> <tr> <td>A. Reactivity Hazard</td> <td>0</td> <td>A. Reactivity Hazard</td> </tr> </table>	Health	3	National Fire Protection Association (U.S.A.)		Flammability	0	Health	A. Reactivity Hazard	0	A. Reactivity Hazard		
Health	3	National Fire Protection Association (U.S.A.)											
Flammability	0	Health											
A. Reactivity Hazard	0	A. Reactivity Hazard											
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 ICC	Verified by A WHITE
Information Contact	Hawco Products Ltd./Diamond Products 61 Shaver St. PO Box 1507 Brantford, ON N3T 5V6

Notice to Reader
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 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.