




MATERIAL SAFETY DATA SHEET

HD20 Diamond Edge HW Detergent

This MSDS is prepared in accordance with OSHA 29 CFR 1910.1200

		WHMIS CLASS E: Corrosive liquid. Material causing immediate and serious toxic effects.	HCS CLASS: Corrosive Liquid
WHMIS (Pictograms)		WHMIS (Classification)	HCS
Section 1. Chemical Product and Company Identification			
Product Name/Trade Name	Diamond Edge HW Detergent #20	Code	HD20
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 Product Sales, LTD 61 Shaver Street PO BOX 1507 Brantford Ontario Canada 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. 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)
Tetrapotassiumpyro Phosphate	7320345	3 - 7	Not applicable	LD 50 rat oral 3100 mg/kg
Potassium Silicate Solution	112-761	3 - 7	Not applicable	Not available
Nitritotriacetic Acid Trisodium Salt	50641-3	1- 5	Not applicable	Not available




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 eyes with running water for at least 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 Approved safety goggles or glasses.
	Body Not required
	Respiratory Wear appropriate respirator when spraying product.
	Hands Gloves (natural rubber or synthetic)
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	13.5+	Color Clear
Boiling/Condensation Point	approx 212°F (100°C)	
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	This product is stable.
Incompatibility with Various Substances	Strong acids. Strong oxidizers.
Hazardous Decomposition Products	Will not occur.

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

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 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 sewered, 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



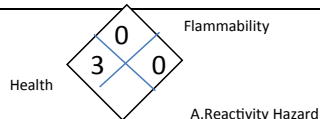
Regulatory Lists All ingredients listed.

Other Regulations OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

Other Classifications 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: None

WHMIS CLASS E Risk Phrase: R21, R22, R41
Precautions: S2, S26, S62

Hazardous Material Information System (U.S.A.)	Health	3	National Fire Protection Association (U.S.A.)
	Flammability	0	
	A. Reactivity Hazard	0	



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 MBeadles Verified by A White Jan 21, 2015
Information Contact Hawco Products Limited
61 Shaver Street PO BOX 1507
Brantford Ontario

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.