



MATERIAL SAFETY DATA SHEET

HD70 Diamond Delimer/Descaler

This MSDS is prepared in accordance with OSHA 29 CFR 1910.1200

 WHMIS (Pictograms)	WHMIS CLASS E: Corrosive liquid. WHMIS (Classification)	HCS CLASS: Corrosive Liquid HCS
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Section 1. Chemical Product and Company Identification

Product Name/Trade Name	Diamond Delimer/Descaler HD70	Code	6DPDL00
Synonym	Liquid Mild Acid 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 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. Information on Hazardous Ingredients

Name	CAS #	% by Weight	Exposure Limits	LC50/LD50
Phosphoric Acid	7664-38-2	<50	TWA: 1 (mg/m ³) TWA: 1 (mg/m ³) from OSHA (PEL) [United States] STEL: 3 (ppm)	Not available

Section 3. Hazards Identification

Potential Acute Health Effects	Corrosive to skin and eyes on contact. Liquid or spray mist may produce tissue damage particularly on mucous membranes of eyes, mouth and respiratory tract. Skin contact may produce burns. Inhalation of the spray mist may produce severe irritation of respiratory tract. Characterized by coughing, choking, or shortness of breath
Potential Chronic Health Effects	Prolonged exposure may result in skin burns and ulcerations. Over-exposure by inhalation may cause respiratory irritation. Severe over-exposure can result in death.
Carcinogenic Effects	Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.

Section 4. First Aid Measures

Eye Contact	Corrosive to eyes. Flush with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Seek immediate medical attention.
Skin Contact	Corrosive to skin. Remove contaminated clothing. Wash gently and thoroughly the contaminated skin with running water and a non- abrasive soap. Seek medical attention.
Inhalation	Get to fresh air. Seek medical attention if symptoms persist.
Ingestion	Corrosive to mouth, throat and gastrointestinal system. DO NOT Induce Vomiting. Give large quantities of water or milk. Seek medical attention immediately.

Section 5. Fire Fighting Measures




Products of Combustion	Not available
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	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 container.
Personal Protection in Case of a Large Spill	Full suit. Boots. Gloves (impervious) Face shield.

Section 7. Handling and Storage

Precautions	Ensure the eyewash station and safety shower is proximal to the work-station location. Avoid contact with skin and eyes. Do not breathe gas/fumes/vapor spray.
Incompatibility	Strong alkalis, oxidizers, reactive metals.
Storage	Corrosive materials should be stored in a separate safety storage cabinet or room. Keep out of reach of children. This product should be stored AWAY from oxidizing materials and strong bases. Not for use or storage in or around the home.

Section 8. Exposure Controls/Personal Protection	
Engineering Controls	Good general ventilation should be sufficient to control airborne levels.
Personal Protection	Eyes Splash goggles
	Body Long pants and Long sleeves to avoid skin contact.
	Respiratory Wear appropriate respirator when ventilation is inadequate.
	Hands Gloves (impervious).
Protective Clothing (pictogram)	  
Exposure Limits	Phosphoric Acid TWA: 1 (mg/m3) TWA: 1 (mg/m3) from OSHA (PEL) [United States] STEL: 3 (mg/m3) Consult local authorities for acceptable exposure limits.

Section 9. Physical and Chemical Properties			
Physical State and Appearance	Liquid.	Odor	Odorless
Molecular Weight	Not applicable		
pH	1	Color	Yellow
Boiling/Condensation Point	218° F initial		
Melting/Freezing Point	Not Available.		
Critical Temperature	Not Available.		
Instability Temperature	Not Available.		
Specific Gravity	1.41 (water=1)		
Vapor Pressure	<20mm Hg @ 68°F		
Vapor Density	>1 (Air = 1)		
Volatility	60		
VOC	Not available.		
Evaporation Rate	<1 compared to Water		
Dispersion Properties	See solubility in water.		
Solubility	Easily soluble in cold water		
The Product is:	May be combustible at high temperatures		
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 applicable		

Section 10. Stability and Reactivity Data	
Stability	The product is stable
Incompatibility with Various Substances	Strong alkalis, oxidizers, reactive metals.
Hazardous Decomposition Products	Not available



Section 11. Toxicological Information	
Routes of Entry	Absorbed through skin. Eye contact. Inhalation. Ingestion.
Toxicity to Animals	Acute oral toxicity (LD50): 4610 mg/kg [Rat]. (Nonionic Surfactant).
Acute Effects on Humans	Eyes Severe eye irritant. Liquid and mist may burn or injure the eyes.
	Skin Severe skin irritant. Prolonged or repeated contact can cause chemical burns or dermatitis.
	Inhalation May be irritating to mucous membranes of the nose, throat, and lungs.
	Ingestion May be irritating or corrosive to mouth and throat. Can cause nausea and vomiting.
Chronic Effects on Humans	Prolonged exposure may result in skin burns and ulcerations. Over-exposure by inhalation may cause respiratory irritation. Severe over-exposure can result in death.
Special Remarks on Chronic Effects on Animals	Not available.
Special Remarks on Chronic Effects on Humans	Not available

Section 12. Ecological Information	
Ecotoxicity	Not available.
BOD5 AND COD	Will not occur
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

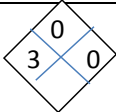
Waste Information	Waste must be disposed of in accordance with federal, state and local environmental control regulations.
Waste Stream	Not available

Section 14. Transport Information

DOT (U.S.A.) (Pictograms)		
TDG Classification	Class 8: Corrosive Material	
PIN UN, Proper Shipping Name, PG	Shipping name: CORROSIVE LIQUIDS, N.O.S. UNNA: UN1760 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.	
Regulatory Lists	No products were found.	
Other Regulations	OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).	
Other Classifications	HCS (U.S.A.)	HCS Class: Corrosive Liquid.
	USA Regulatory Lists	SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Phosphoric Acid SARA 313 toxic chemical notification and release reporting: Phosphoric Acid
	DSD (EEC)	R35-Causes severe burns
	International Regulations Lists	No products were found.

Hazardous Material Information System (U.S.A.)	Health	3	National Fire Protection Association (U.S.A.)		Flammability
	Flammability	0			Instability
	Physical 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 Hawco Products Ltd.	Verified by A White
Information Contact	Hawco Products Ltd./ Diamond Products 61 Shaver St. PO BOX 1507 Brantford, ON N3T 5V6

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.