

# SAFETY DATA SHEET

## HD501 Diamond Glass Kleen Concentrate

### s1. IDENTIFICATION OF THE SUBSTANCE OR PREPARATION AND OF THE COMPANY

**Identification of Preparation:** HD501 Glass Kleen Concentrate  
**Date of Safety Data Sheet:** December 27, 2017  
**Use of Preparation:** Glass Cleaner concentrate.  
**Company Identification:** Hawco Products Ltd./ Diamond Products  
61 Shaver Street, PO Box 1507  
Brantford, Ontario N3T 5V6

**Company Emergency Telephone Number**      Emergency Phone: 519-759-2443

### 2. HAZARD IDENTIFICATION

**Emergency Overview:**  
**OSHA / WHMIS 2015 Hazards**  
Not hazardous.  
**Classification of substance or mixture**  
**GHS-US/Canadian classification:**  
Not hazardous  
**Label Elements**  
**GHS-US Labeling**  
**Hazard Pictograms (GHS):**  
None.  
**Signal Word (GHS):**  
None  
**Hazard Statements (GHS):**  
None  
**Precautionary Statements (GHS):**  
None.  
**Response Statements (GHS):**  
None

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical Description:** Chemical Blend

Ingredient	CAS#	% by Wt	Classification
2-Propanol	67-63-0	1-5	Flammable Liquids Category 2 –H225 Acute Toxicity Category 5 (Oral) - H303 Serious Eye Damage / Eye Irritation Category 2A – H319
Alkoxylated Fatty Alcohol	HMIRA Registry Number 9790. Filling date	5-10	Serious Eye Damage / Eye Irritation Category 2 B– H320

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### 4. FIRST AID MEASURES

<b>Inhalation:</b>	Remove to fresh air. If symptoms persist consult physician.
<b>Eye Contact:</b>	Remove contacts. Flush with water for at least 20 minutes, occasionally lifting the upper and lower eyelids. Repeat if required. If irritation persists, get medical attention.
<b>Skin Contact:</b>	Thoroughly wash exposed skin with soap and water. Remove any contaminated clothing and wash before reuse.
<b>Ingestion:</b>	Wash out mouth with water. Drink plenty of water. Do not induce vomiting unless directed by medical personal. Never give anything to an unconscious person. Get medical aid.
<b>Notes to Physician:</b>	Treatment based on judgment of attending physician.

### 5. FIRE FIGHTING MEASURES

<b>Suitable extinguishing media:</b>	Flood with water for extinguishing agent. CO2, dry chemical, alcohol resistant foam
<b>Unsuitable extinguishing media:</b>	None known.
<b>Special exposure hazards</b>	Thermal decomposition releases irritating gases.
<b>Special safety equipment:</b>	Self-contained positive pressure breathing apparatus and protective clothing.
<b>Fire and explosion</b>	Not flammable. Not an explosive hazard.
<b>Further information</b>	Keep containers and surrounding cool with water spray.

### 6. ACCIDENTAL RELEASE MEASURES

#### Personal Precautions, Protective Equipment and Emergency Procedures

**General Measures:** Do not get in eyes, on skin, or on clothing. Do not breathe vapour or mist.

#### For Non-Emergency Personnel

**Protective Equipment:** Use appropriate personal protection equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel.

#### For Emergency Personnel

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Ventilate area.

#### Environmental Precautions

Prevent entry to sewers and public waters.

#### Methods and Material for Containment and Cleaning Up

**For Containment:** Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

**Methods for Cleaning Up:** Clear up spills immediately with absorbent and dispose of waste safely.

#### Reference to Other Sections

See Heading 8. Exposure controls and personal protection.

### 7. HANDLING AND STORAGE

#### Precautions for safe handling:

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

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Avoid splashes or spray in enclosed areas.

### Information about fire and explosion protection:

Keep respiratory protective device available.

No special measures required.

### Conditions for safe storage, including any incompatibilities:

**Storage:** Acids, Oxidizers, reducing agents.

### Requirements to be met by storerooms and receptacles:

Store in a cool location.

### Information about storage in one common storage facility:

Store away from foodstuffs.

### Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.

Store receptacle in a well-ventilated area.

Keep container tightly sealed.

**Specific end use(s)** No further relevant information available.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Respiratory protection:</b>	Use local exhaust or dilution ventilation.
<b>Hand protection:</b>	Not normally required.
<b>Eye protection:</b>	Safety goggles or full -ace shield if eye contact is possible.
<b>Skin protection:</b>	Use body-covering impervious clothing.
<b>Working hygiene:</b>	Take usual precautions when handling. Workers should wash hands before eating, drinking or smoking.
<b>Exposure Guidelines:</b>	

### 2-Propanol

#### ACGIH TLV (United States, 3/2012).

TWA: 200 ppm 8 hours.

STEL: 400 ppm 15 minutes.

#### NIOSH REL (United States, 1/2013).

TWA: 400 ppm 10 hours.

TWA: 980 mg/m<sup>3</sup> 10 hours.

STEL: 500 ppm 15 minutes.

STEL: 1225 mg/m<sup>3</sup> 15 minutes.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Physical and Chemical Properties

<b>Physical State</b>	Liquid	<b>Odour</b>	Typical
<b>Appearance</b>	Clear	<b>Odour Threshold</b>	No data available.
<b>Colour</b>	Blue	<b>Remarks/Method</b>	
<b>Property</b>	<b>Values</b>		
<b>pH</b>	9.5-10.5	None known	
<b>Melting/Freezing Point</b>	No data available	None known	
<b>Boiling Point/Range</b>	No data available	None known	

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Flash Point	Not applicable.	None known
Evaporation Rate	Similar	None known
Flammability (solid, gas)	Not flammable	None known
Flammability Limit in Air:		
Upper Limit	No data available	None known
Lower Limit	No data available	None known
Vapour Pressure	No data available	None known
Vapour density	No data available	None known
Specific Gravity	0.95-0.98 g/cm <sup>3</sup>	
Water Solubility	Soluble in water.	None known
Solubility Other Solvents	No data available	None known
Partition Coefficient:		
n-octanol/water	No data available	None known
Autoignition temperature	No data available	None known
Decomposition Temperature	No data available	None known
Kinematic Viscosity	No data available	None known
Dynamic Viscosity	No data available	None known
Explosive Properties	No data available	None known
Oxidizing Properties	No data available	None known

### Other Properties:

Softening Point	No data available
VOC Content %	No data available
Particle Size	No data available
Particle Size Distribution	No data available

## 10. STABILITY AND REACTIVITY

Reactivity	Stable.
Chemical stability	Stable under recommended handling and storage conditions (see section 7).
Thermal decomposition/conditions to avoid:	No decomposition if used and stored according to specifications.
Possibility of hazardous reactions	Hazardous polymerization will not occur.
Conditions to avoid	Extremely high or low temperatures.
Hazardous decomposition products	Carbon oxides (CO, CO <sub>2</sub> ).
Materials to avoid	Reducing agents. Strong acids.
Hazardous polymerization	Will not occur

## 11. TOXICOLOGICAL INFORMATION

### Information on toxicological effects

**Acute toxicity:** Harmful if swallowed.

**LD/LC50 values relevant for classification:**

**2-Propanol CAS# 67-63-0 :**

LD50 (Oral) Rat 5045 mg/kg

LD50 (Dermal) Rabbit 12870 mg/kg

LC50 (Inhalation) Rat 73 mg/l/4h

**On the skin:** Causes drying of the skin.

**On the eye:** Causes pain and redness.

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Respiratory or Skin Sensitization: Not classified.

Additional toxicological information:

Carcinogenicity:

Chemical Name None

### 12. ECOLOGICAL INFORMATION

<b>Toxicity:</b>	Not classified
<b>Persistence and Degradability:</b>	Not available
<b>Bioaccumulative Potential:</b>	Not available
<b>Mobility in Soil:</b>	Not available.
<b>Other Adverse Effects</b>	None known
<b>Other Information:</b>	All of the organic components of this product are readily biodegradable.

### 13. DISPOSAL

**Waste Disposal Recommendations:** Dispose of waste material in accordance with all local, regional, national, and international regulations.

**Ecology – Waste Materials:** Avoid release to the environment.

### 14. TRANSPORTATION INFORMATION

**U.S. Department of Transportation (DOT):** Not regulated.

**Canadian TDG (Road & Rail):** Not regulated.

**Water Transportation (IMO):** Not regulated.

**Air Transportation (IATA):** Not regulated.

### 15. REGULATORY INFORMATION

**Occupational Health & Safety Regulations:**

**WHMIS Classification:** Class D - Division 2B



**OSHA & WHMIS:** MSDS prepared pursuant to the Hazard Communication Standard (CFR29 1910.1200) and Canadian WHMIS regulations (Controlled Products Regulations under the Hazardous Products Act).

#### International Inventories

<b>TSCA</b>	Complies
<b>DSL/NDSL</b>	Complies
<b>EINECS/ELINCS</b>	Complies
<b>ENCS</b>	Complies
<b>IECSC</b>	Complies
<b>KECL</b>	-
<b>PICCS</b>	Complies
<b>AICS</b>	Complies

#### Legend:

Date: December 27, 2017

SDS: Diamond HD501 Glass Kleen Concentrate

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**TSCA** - All components of this product are listed or are exempt or excluded from listing on the United States Toxic Substances Control Act Section 8(b) Inventory.

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

### U.S. State Regulations

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

#### **HMIS III Rating**

Health: 0 Minimal Hazard

Flammability: 0 Minimal Hazard

Physical: 0 Minimal Hazard

Personal Protection: B

SDS US (GHS HazCom 2012 and WHMIS 2015)

### 16. OTHER INFORMATION

**Prepared By:** Technical Department.

**Issuing Date:** December 27, 2017.

#### **Disclaimer:**

The manufacturer warrants that this product conforms to its standard specification when used according to direction. To the best of our knowledge the information contained herein is accurate. However, we do not assume accuracy or completeness of the information contained herein.

Final determination of the 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.

**End of Safety Data Sheet**