

# SAFETY DATA SHEET

## Diamond Products Division of Hawco Products Ltd.

### HD23 Diamond Edge C

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

**Identification of Preparation:** HD23 Diamond Edge C Chlorinated Detergent  
**Date of Safety Data Sheet:** October 9, 2017.  
**Use of Preparation:** Dish Detergent.  
**Company Identification:** Diamond Products Division of Hawco Products Ltd.  
61 Shaver Street, PO Box 1507  
Brantford, Ontario  
N3T 5V6

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

#### 2. HAZARD IDENTIFICATION

##### **Classification:**

This product is considered hazardous under the 2012 OSHA Hazard Communication Standard (29 CER 1910.1200) and WHMIS 2015.

##### **GHS Label Elements, including precautionary statement:**

##### **Emergency Overview:**

Corrosive to Metals Category 1 H290  
Acute Toxicity (Oral) Category 4 H302  
Skin Corrosive Category 1A H314  
Eye Damage Category 1 H318

##### **Label Elements**

##### **GHS-US Labeling**

##### **Hazard Pictograms (GHS):**



**Signal Word (GHS):** Danger

##### **Hazard Statements (GHS):**

H290: May be corrosive to metals.  
H302: Harmful if swallowed.  
H314: Causes severe skin burns and eye damage.  
H318: Causes serious eye damage.

##### **Precautionary Statements (GHS):**

P234: Keep only in original container.  
P260: Do not breathe vapors, spray, mist.  
P264: Wash hands, forearms, and exposed areas thoroughly after handling.  
P270: Do not eat, drink or smoke when using this product.  
P280: Wear eye protection, protective gloves, protective clothing.

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#### Response Statements (GHS):

P301+P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340 - IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310: Immediately call a POISON CENTER or doctor/physician.

P321: Specific treatment (see Section 4).

P363: Wash contaminated clothing before reuse.

P390: Absorb spillage to prevent material damage.

P405: Store locked up.

P406: Store in corrosive resistant container with a resistant inner liner.

P501: Dispose of contents/container according to local, regional, national, and international regulations.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

**Chemical Description:** Chemical Blend

Ingredient	CAS#	% by Wt	Classification
Sodium Hypochlorite	7681-52-9	0.1-1	Corrosive to Metals Category 1 - H290 Acute Toxicity Category 2 (Oral) - H300 Skin Corrosion/Irritation Category 1A – H314 Serious Eye Damage / Eye Irritant Category 1– H318 Aquatic Hazard (Acute) Category 3 – H402
Potassium silicate	1312-76-1	1-5	Skin Corrosion/Irritation Category 2 - H315 Serious Eye Damage / Eye Irritant Category 2-H315
Potassium Hydroxide	1310-58-3	7.5-15	Corrosive to Metals Category 1- H290 Acute Toxicity Category 4 (Oral) - H302 Skin Corrosion/Irritation Category 1A – H314 Serious Eye Damage/Eye Irritation Category 1 - H318

### 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. Get medical attention immediately.
<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.

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**Notes to Physician:** Treatment based on judgment of attending physician.

#### 5. FIRE FIGHTING MEASURES

**Suitable extinguishing media:** Any standard extinguishing media (alcohol foam, water spray or fog, CO2 dry chemical, etc.).

**Unsuitable extinguishing media:** None known.

**Special exposure hazards:** Thermal decomposition releases irritating gases.

**Special safety equipment:** Self-contained positive pressure breathing apparatus and protective clothing.

#### Explosion Data:

**Sensitivity to Mechanical Impact:** None.

**Sensitivity to Static Discharge:** None.

**Special safety equipment:** Self-contained positive pressure breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective clothing.

#### 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:** Stop leak if safe to do so. 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 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.

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**

Acids, Oxidizers, reducing agents.

##### **Storage:**

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

Store in a cool location.  
 Unsuitable material for receptacle: steel.  
 Unsuitable material for receptacle: aluminium.  
 Avoid storage near extreme heat, ignition sources or open flame.

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

Do not store together with alkaline products or strong acids.  
 Store away from oxidizing agents.  
 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

**Exposure Guidelines:** **Potassium Hydroxide CAS# 1310-58-3**  
 REL (USA) C2 mg/m<sup>3</sup>  
 TLV (USA) Short-term value: C 2 mg/m<sup>3</sup>  
 EL (Canada) Short-term value: C 2 mg/m<sup>3</sup>

#### Appropriate Engineering Controls:

**Engineering Measures** Showers. Eyewash Stations. Ventilation Systems for workplace. None required for consumer use.

#### Individual Protection Measures:

**Respiratory protection:** Use local exhaust or dilution ventilation.  
**Hand protection:** Chemical resistant gloves.  
**Eye protection:** Safety goggles or full-face shield.  
**Skin protection:** Use body-covering impervious clothing.  
**Working hygiene:** Take usual precautions when handling. Workers should wash hands before eating, drinking or smoking.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Physical and Chemical Properties

<u>Property</u>	<u>Values</u>	<u>Odour Threshold</u>	<u>Remarks/Method</u>
<b>Physical State</b>	Liquid		
<b>Appearance</b>	Clear		Typical
<b>Colour</b>	Amber		No data available.
<b>pH</b>	13.5-14.0	None known	
<b>Melting/Freezing Point</b>	No data available	None known	
<b>Boiling Point/Range</b>	No data available	None known	
<b>Flash Point</b>	Not applicable.	None known	

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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	1.20 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

<b>Reactivity</b>	The substance decomposes on heating, on contact with acids and under influence of light producing toxic and corrosive gases including. The substance is a strong oxidant and reacts with combustible and reducing materials
<b>Chemical stability</b>	Stable under normal conditions of use and storage; Stability decreases with increased concentration, heat, light exposure, decrease in pH and contamination with heavy metals such as nickel, cobalt, copper and iron.
<b>Thermal decomposition/conditions to avoid:</b>	Direct sunlight. Extremely high or low temperatures. Contact with metallic substances. Exposure to air or moisture over prolonged periods; Excessive heat, exposure to light, reduced alkalinity, and contamination of any kind. Reduced alkalinity or contamination can result in evolution of chlorine (toxic) gas. Decrease in pH such as by mixing with other than water, and contamination with items mentioned below as incompatible can result in evolution of chlorine (toxic) gas.
<b>Possibility of hazardous reactions</b>	Warning! Do not use together with other products. May release dangerous gases (chlorine). Avoid contact with oxidizers.
<b>Conditions to avoid</b>	Strong acids and bases; Oxidizing agents; ether, ammonia compounds, hydrogen peroxide, all acids, alum, reducing agents, human or animal waste, oxidizable or combustible materials such as wood, cloth or organic materials, organic chemicals such as solvents and solvent based cleaning compounds, fuels and fuel oils, amines, methanol, propane, organic polymers, ethylene glycol, insecticides, heavy metals such as iron, copper, magnesium, aluminum, tin, steel, stainless steel, carbon steel, manganese, zinc, chromium, nickel, cobalt

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<b>Hazardous decomposition products</b>	and their alloys, sodium sulfite, sodium bisulfite, sodium hydrosulfite, sodium thiosulfate. Do not mix this product with any of the foregoing or hazardous gases can result. Warning! Do not use together with other products. May release dangerous gases (chlorine). Avoid contact with oxidizers. This material may be extremely hazardous in contact with chlorates or nitrates. This material is acidic. Contact with hypochlorites (e.g. chlorine bleach, sulfides, or cyanides will liberate toxic gases. Contact with alkaline materials (e.g. aqua ammonia) will generate heat.
<b>Materials to avoid</b>	Oxidizing agents, acids.
<b>Hazardous polymerization</b>	Will not occur

## 11. TOXICOLOGICAL INFORMATION

### Information on toxicological effects

**Acute Toxicity:** Harmful if swallowed.

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

**Potassium Hydroxide CAS# 1310-58-3:**

Inhalation LD50 273 mg/kg

**Skin Corrosion/Irritation:** Causes severe skin burns and eye damage. (pH: 14)

**Serious Eye Damage/Irritation:** Causes serious eye damage. (pH: 14)

**Respiratory or Skin Sensitization:** Not classified

**Germ Cell Mutagenicity:** Not classified

**Carcinogenicity:** Not classified

## 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity:</b>	<b>Potassium Hydroxide CAS# 1310-58-3:</b> LC50 Fish 1 40 mg/l
<b>Persistence and Degradability:</b>	No information available
<b>Bioaccumulative Potential:</b>	No information available
<b>Mobility in Soil:</b>	No information available
<b>Other Adverse Effects:</b>	No information available
<b>Other Information:</b>	Avoid release to the environment.

## 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

### Canadian T.D.G.: Regulated Material

Proper Shipping Name: COMPOUNDS, CLEANING LIQUID

Contains: Potassium Hydroxide

Hazard Class: 8

ID Number: NA 1760

Label Codes: 8

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Packing Group: II  
ERG Number: 154



#### U.S. Department of Transportation (DOT): Regulated Material

Proper Shipping Name: COMPOUNDS, CLEANING LIQUID  
Contains: Potassium Hydroxide  
Hazard Class: 8  
ID Number: NA 1760  
Label Codes: 8  
Packing Group: II  
ERG Number: 154



#### Water Transportation (IMDG): Regulated Material

Proper Shipping Name: COMPOUNDS, CLEANING LIQUID  
Contains: Potassium Hydroxide  
Hazard Class: 8  
ID Number: NA 1760  
Label Codes: 8  
Packing Group: II  
ERG Number: 154



#### Air Transportation (IATA): Regulated Material

Proper Shipping Name: COMPOUNDS, CLEANING LIQUID  
Contains: Potassium Hydroxide  
Hazard Class: 8  
ID Number: NA 1760  
Label Codes: 8  
Packing Group: II  
ERG Number: 154

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## 15. REGULATION

### Occupational Health & Safety Regulations:

WHMIS Classification: Class D - Division 2B, Class E



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

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

### Legend:

**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 Prop. 65

This product does not contain any Proposition 65 chemicals.



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**16. OTHER INFORMATION**

**Prepared By:** Technical Department.

**Issuing Date:** October 9, 2017

**Revision Date:** None

**Revision Note:** None

**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**