

SAFETY DATA SHEET

Diamond Products Division of Hawco Products HD31 Crystal Clear Plus

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

Identification of Preparation: HD31 Crystal Clear Plus

Date of Safety Data Sheet: April 14, 2019

Use of Preparation: Rinse Aid Product.

Company Identification: Diamond Products Division of Hawco Products Ltd.
61 Shaver Road,
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

Classification of substance or mixture

GHS-US/Canadian classification:

GHS Hazards

Serious Eye Damage/Irritation 2A H319

Label Elements

GHS-US/ Canada Labeling

Hazard Pictograms (GHS):



Signal Word (GHS): Warning

Hazard Statements (GHS):

H319: Causes serious eye irritation.

Precautionary Statements (GHS):

P262: Do not get in eyes, on skin or on clothing.

P264: Wash hands thoroughly with plenty of soap and water after handling.

P280: Wear face protection/ eye protection.

Response Statements (GHS):

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

SAFETY DATA SHEET

Diamond Products Division of Hawco Products HD31 Crystal Clear Plus

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Description: Chemical Blend

Ingredient	CAS#	% by Wt.	Classification
Oxirane, methyl-, polymer with oxirane, monodecyl, monoethyl and monoethyl ether	37251-67-5/ 52232-09-4/ 37311-02-7	10-30	Serious Eye Damage/Irritation Category 2A – H319
Propylene Glycol	57-55-6	1-5	Skin Corrosion/Irritation Category 3 – H316 Serious Eye Damage/Eye Irritation Category 2B - H320
Isopropyl Alcohol	67-63-0	1-5	Skin Corrosion/Irritation Category 3 – H316 Serious Eye Damage/Eye Irritation Category 2B - H320

4. FIRST AID MEASURES

Inhalation:	Remove to fresh air. If symptoms persist consult physician.
Eye Contact:	Remove contacts. Flush with water for at least 20 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.
Skin Contact:	Thoroughly wash exposed skin with soap and water.
Ingestion:	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 attention immediately.
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	None Known.
Special safety equipment:	Self-contained positive pressure breathing apparatus and 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.

SAFETY DATA SHEET

Diamond Products Division of Hawco Products HD31 Crystal Clear Plus

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:

No special measures required.

Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles:

Store in a cool location.

Protect from humidity and water.

Avoid storage near extreme heat, ignition sources or open flame.

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

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.

Exposure Guidelines:

ACGIH TWA (United States, 3/2012).

Isopropyl alcohol 200 ppm

OSHA TWA (United States, 6/2010).

Isopropyl alcohol 400 ppm

NIOSH REL (United States, 6/2009).

Date: April 14, 2019

SDS: Diamond Hd31 Crystal Clear Plus.

SAFETY DATA SHEET

Diamond Products Division of Hawco Products HD31 Crystal Clear Plus

None

ACGIH None.

Chemical Safety Report

Derived No Effect Levels (DNEL) Not available

Predicted No Effect Concentration (PNEC) Not available

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Physical State	Liquid	Odour	Typical.
Appearance	Water like viscosity	Odour Threshold	No data available.
Colour	Blue.		

<u>Property</u>	<u>Values</u>	<u>Remarks/Method</u>
pH	5.0-7.0	None known
Melting/Freezing Point	No data available.	None known
Boiling Point/Range	No data available.	None known
Flash Point	No data available.	None known
Evaporation Rate	No data available.	None known
Flammability (solid, gas)	No data available.	None known
Flammability Limit in Air:	No data available.	None known
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	1.00 g/cm ³	None known
Water Solubility	100 %	None known
Solubility Other Solvents	No data available.	None known
Partition Coefficient:	No data available.	None known
n-octanol/water	No data available.	None known
Autoignition temperature	No data available.	None known
Decomposition	No data available.	None known
Temperature		
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	Not applicable.
VOC Content %	No data available.
Particle Size	Not applicable.
Particle Size Distribution	Not applicable

10. STABILITY AND REACTIVITY

Reactivity No specific test data related to reactivity available for this product or its

SAFETY DATA SHEET

Diamond Products Division of Hawco Products HD31 Crystal Clear Plus

Chemical stability	ingredients. 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	Direct sunlight. Extremely high or low temperatures.
Hazardous decomposition products	Carbon oxides (CO, CO ₂).
Materials to avoid	Reducing agents. Strong acids.
Hazardous polymerization	Will not occur

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure: Inhalation, eye contact, skin contact

Product Information:

Inhalation	Specific test data for substance/mixture not available.
Eye Contact	Slight irritation.
Skin Contact	Specific test data for substance/mixture not available.
Ingestion	Specific test data for substance/mixture not available.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Oxirane, methyl-, polymer with oxirane, monodecyl, monohexyl and monooctyl ether	>2000 mg/Kg Oral/ Rat	>20,000 mg/Kg Skin Rabbit	>200mg/L 1 Hr Rat
Isopropyl Alcohol	4,396 mg/Kg Oral/ Rat	12,870 mg/Kg Skin Rabbit	19,000 ppm 8 Hr Rat
Propylene Glycol	20,000mg/Kg Oral/ Rat	20,800mg/Kg Skin Rabbit	No data available

Information on Toxicological Effects: No data available.

Symptoms No data available.

Delayed/Immediate/Chronic Effects from short and long-term exposure:

Sensitization	No data available.
Mutagenic Effects	No data available.
Carcinogenicity	No data available.
Reproductive Toxicity	No data available.
STOT- Single Exposure	No data available.
STOT Repeated exposure	No data available.
Chronic Toxicity	No data available.
Target Organ Effects	No data available.
Numerical Measures of Toxicity (based on GHS Chapter 3.1)	No data available.

SAFETY DATA SHEET

Diamond Products Division of Hawco Products HD31 Crystal Clear Plus

12. ECOLOGICAL INFORMATION

Toxicity:	Not classified
Persistence and Degradability:	Not available
Bioaccumulative Potential:	
Air	No data available.
Soil	Readily absorbed into soil
Water	Soluble in water.
Mobility in Soil:	Not available.
Other Adverse Effects	
Other Information:	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

Canadian TDG (Road & Rail): Not Regulated

U.S. Department of Transportation (DOT): Not Regulated

Water Transportation (IMO): Not Regulated

Air Transportation (IATA): Not Regulated

Certain shipping modes or package sizes may have exceptions from the transport regulations. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.

15. REGULATION

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

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

SAFETY DATA SHEET

Diamond Products Division of Hawco Products HD31 Crystal Clear Plus

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 Proposition 65

This product does not contain any Proposition 65 chemicals.

HMIS III Rating

Health: 1 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: June 29, 2017

Revision Date: April 14, 2019

Revision Notes: General format updates, Section 3 Composition – Classifications expanded, Section 15 Regulation – WHMIS Classification, Inventories and US Regulations added.

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.