



Safety Data Sheet
Hawco Products Limited
Division Diamond Products
HD31 Diamond Crystal Clear Rinse

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: Hawco Products Ltd.
61 Shaver Street, PO Box 1507
Brantford, Ontario N3T 5V6
Company Emergency Telephone Number: 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.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Description: Chemical Blend

Ingredient	CAS#	% by Wt.	Classification
Oxirane, methyl-, polymer with	37251-67-5/	10-30	Serious Eye Damage/Irritation Category 2A –

Date: April 14, 2019

SDS: Hawco Products Diamond Hd31 Crystal Clear Plus.



Safety Data Sheet
Hawco Products Limited
Division Diamond Products
HD31 Diamond Crystal Clear Rinse

oxirane, monodecyl, monohexyl and monoethyl ether	52232-09-4/ 37311-02-7		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.

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



Safety Data Sheet
Hawco Products Limited
Division Diamond Products
HD31 Diamond Crystal Clear Rinse

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).

None



Safety Data Sheet
Hawco Products Limited
Division Diamond Products
HD31 Diamond Crystal Clear Rinse

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



Safety Data Sheet
Hawco Products Limited
Division Diamond Products
HD31 Diamond Crystal Clear Rinse

10. STABILITY AND REACTIVITY

Reactivity

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

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

Direct sunlight. Extremely high or low temperatures.

Hazardous decomposition products

Carbon oxides (CO, CO₂).

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 monoethyl 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.



Safety Data Sheet
Hawco Products Limited
Division Diamond Products
HD31 Diamond Crystal Clear Rinse

Chronic Toxicity	No data available.
Target Organ Effects	No data available.
Numerical Measures of Toxicity (based on GHS Chapter 3.1)	No data available.

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



Safety Data Sheet
Hawco Products Limited
Division Diamond Products
HD31 Diamond Crystal Clear Rinse

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 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.



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