

# SAFETY DATA SHEET

## Hawco Products Ltd. H191HW Albrite Hard Water.

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

**Identification of Preparation:** H191HW Albrite Hard Water.  
**Date of Safety Data Sheet:** April 14, 2019  
**Use of Preparation:** Dishwasher Detergent.  
**Company Identification:** 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

#### Emergency Overview:

#### OSHA / WHMIS 2015 Hazards

#### Classification of substance or mixture

#### GHS-US/Canadian classification:

#### GHS Hazards

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/ Canada 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):

P102: Keep out of reach of children.

P260: Do not breathe mist, spray, and vapours.

P264: Wash hands thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

P280: Wear face protection, protective clothing, protective gloves, and eye protection.

#### Response Statements (GHS):

Date: April 14, 2019

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

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

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 comfortable for breathing.

P315: Get immediate medical advice/attention, if concerned.

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.

P363: Wash contaminated clothing before re-use.

P501: Dispose of contents / container in accordance with local regulations.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical Description:** Chemical Blend

Ingredient	CAS#	% by Wt	Classification
Potassium Hydroxide	1310-58-3	30-60	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
Tetrapotassium pyrophosphate	7320-34-5	1-5	Corrosive to Metals Category 1 – H290 Skin Corrosion/Irritation Category 2 – H315 Serious Eye Damage/Irritation Category 2A – H319

### 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.

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**Fire and explosion**  
**Further information**

Not flammable. Not an explosive hazard.  
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.

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.

Protect from humidity and water.

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 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.

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### 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:

**Potassium Hydroxide:** ACGIH Ceiling 2 mg/m<sup>3</sup>  
OSHA PEL (TWA) 2 mg/m<sup>3</sup>

### 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>	Water white	<b>Remarks/Method</b>	
<b>Property</b>	<b>Values</b>		
<b>pH</b>	13.0-14.0	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	
<b>Evaporation Rate</b>	Similar	None known	
<b>Flammability (solid, gas)</b>	Not flammable	None known	
<b>Flammability Limit in Air:</b>			
<b>Upper Limit</b>	No data available	None known	
<b>Lower Limit</b>	No data available	None known	
<b>Vapour Pressure</b>	No data available	None known	
<b>Vapour density</b>	No data available	None known	
<b>Specific gravity</b>	1.15 g/cm <sup>3</sup>		
<b>Water Solubility</b>	Soluble in water.	None known	
<b>Solubility Other Solvents</b>	No data available	None known	
<b>Partition Coefficient:</b>			
<b>n-octanol/water</b>	No data available	None known	
<b>Autoignition temperature</b>	No data available	None known	
<b>Decomposition Temperature</b>	No data available	None known	
<b>Kinematic Viscosity</b>	No data available	None known	
<b>Dynamic Viscosity</b>	No data available	None known	
<b>Explosive Properties</b>	No data available	None known	
<b>Oxidizing Properties</b>	No data available	None known	

#### Other Properties:

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

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## Hawco Products Ltd. H191HW Albrite Hard Water.

Particle Size Distribution No data available

### 10. STABILITY AND REACTIVITY

Reactivity	Stable at normal ambient temperature and pressure.
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. Contact with aluminum.
Hazardous decomposition products	Carbon oxides (CO, CO <sub>2</sub> ). Sodium oxides.
Materials to avoid	Metals such as aluminum. Reducing agents, oxidizing agent. 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:**

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

LD50 (Oral, rat): 490 mg/kg

**On the skin:** Causes severe skin irritation.

**On the eye:** Causes serious eye damage.

**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>	
<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

**Canadian T.D.G.: Regulated Material (quantity under 1litres can be shipped Limited Quantity)**

Proper Shipping Name: Caustic Alkali liquid, N.O.S.

Contains: Potassium Hydroxide.

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Hazard Class: 8  
ID Number: UN 1719  
Packing Group: II



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

Proper Shipping Name: Caustic Alkali liquid, N.O.S.  
Contains: Potassium Hydroxide.  
Hazard Class: 8  
ID Number: UN 1719  
Packing Group: II



### Water Transportation (IMDG): Regulated Material

Proper Shipping Name: Caustic Alkali liquid, N.O.S.  
Contains: Potassium Hydroxide.  
Hazard Class: 8  
ID Number: UN 1719  
Packing Group: II



### Air Transportation (IATA): Regulated Material

Proper Shipping Name: Caustic Alkali liquid, N.O.S.  
Contains: Potassium Hydroxide.  
Hazard Class: 8  
ID Number: UN 1719  
Packing Group: II

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### 15. REGULATORY INFORMATION

#### Occupational Health & Safety Regulations:

WHMIS 1988 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 Proposition 65

This product does not contain any Proposition 65 chemicals.

##### HMIS III Rating

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Health: 3 Hazard

Flammability: 0 Minimal Hazard

Physical: 0 Minimal Hazard

Personal Protection: C

SDS US (GHS HazCom 2012 and WHMIS 2015)

### 16. OTHER INFORMATION

**Prepared By:** Technical Department.

**Issuing Date:** December 27, 2017

**Revision Date:** April 14, 2019

**Revision Notes:** General format updates and GHS Hazards updated to include H302.

#### **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**