

SAFETY DATA SHEET

Hawco Products Ltd. H199 Iodine Sanitizer.

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

Identification of Preparation: H199 Iodine Sanitizer.

Date of Safety Data Sheet: December 29, 2017

Use of Preparation: Sanitizer.

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

Acute Toxicity (Oral) Category 4 H302

Skin Corrosive Category 1B H314

Eye Damage Category 1 H318

Label Elements

GHS-US/ Canada Labeling

Hazard Pictograms (GHS):



Signal Word (GHS): Danger

Hazard Statements (GHS):

H302: Harmful if swallowed.

H314: Causes severe skin burns and eye damage

H318: Causes serious eye damage

Precautionary Statements (GHS):

P101: If medical advice is needed, have product container or label at hand.

P102: Keep out of reach of children.

P103: Read label before use.

P260: Do not breathe vapours.

P264: Wash exposed skin thoroughly after handling.

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

Response Statements (GHS):

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P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a doctor or poison control centre.

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 victim 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. Get medical attention.

P363: Wash contaminated clothing before reuse.

P405: Store locked up.

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Description: Chemical Blend

Ingredient	CAS#	% by Wt	Classification
ortho-Phosphoric Acid	7664-38-2	1-5	Skin Corrosion/Irritation Category 1B – H314 Serious Eye Damage/Irritation Category 1 – H318
Alkyl EO/PO copolymer	9038-95-3	1-5	Serious Eye Damage/Eye Irritation Category 2A – H319 Acute Toxicity (Oral) Category 4- H302
Iodine	7553-56-2	0.1-1.0	Skin Corrosion/Irritation Category 1B – H314 Serious Eye Damage/Eye Irritation Category 2A – H319

4. FIRST AID MEASURES

Inhalation:	Remove to fresh air and keep at rest in a position comfortable for breathing.
Eye Contact:	Remove contacts. Flush with water for at least 20 minutes, occasionally lifting the upper and lower eyelids. Repeat if required. Immediately call a POISON CENTRE or doctor/physician.
Skin Contact:	Thoroughly wash exposed skin with water. Remove any contaminated clothing and wash before reuse.
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. Immediately call a POISON CENTRE or doctor/physician.
Notes to Physician:	Treatment based on judgment of attending physician. Gastric lavage is not recommended.
Most important symptoms and effects, both acute and delayed:	Caustic burns/corrosion to the skin. Dry/red skin. Corrosion of the eye tissue. Nausea. Abdominal pain. Blood in vomit. Burns to gastric/intestinal mucous.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media:	Water spray for extinguishing agent. CO2, dry chemical, alcohol resistant foam, sand.
Unsuitable extinguishing media:	None known. Do not use a heavy stream of water.
Special exposure hazards	Thermal decomposition releases corrosive vapours. Decomposes on exposure to temperature rise.

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Special safety equipment: Self-contained positive pressure breathing apparatus and protective clothing.
Fire and explosion Not flammable. Not an explosive hazard.
Further information 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.

Do not breathe mist, vapours, spray.

Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Information about fire and explosion protection:

Keep respiratory protective device available.

No special measures required.

Conditions for safe storage, including any incompatibilities:

Storage: Oxidizers, reducing agents, strong bases and metals.

Requirements to be met by storerooms and receptacles:

Store in a cool location.

Information about storage in one common storage facility:

Do not store together with alkaline products, oxidizers or reducing 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

Appropriate Engineering Controls:

Engineering Measures

Showers. Eyewash Stations. Ventilation Systems.

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Individual Protection Measures:

Respiratory protection: Use local exhaust or dilution ventilation.
Hand protection: Chemical resistant gloves.
 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:

ortho-Phosphoric Acid ACGIH TWA 1 mg/m³
 ACGIH STEL 3 mg/m³
 Iodine OSHA PEL (TWA) 1 mg/m³
 PEL Long term value 0.1 ppm

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

<u>Physical State</u>	Liquid	<u>Odour</u>	Iodine.
<u>Appearance</u>	Foaming liquid.	<u>Odour Threshold</u>	No data available.
<u>Colour</u>	Reddish Brown.	<u>Remarks/Method</u>	
<u>Property</u>	<u>Values</u>		
pH	1.5	None known	
Melting/Freezing Point	No data available	None known	
Boiling Point/Range	No data available	None known	
Flash Point	Not applicable.	None known	
Evaporation Rate	Similar	None known	
Flammability (solid, gas)	Not flammable	None known	
Flammability Limit in Air:	Not flammable		
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	1.03 g/cm ³		
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	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 No data available

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

10. STABILITY AND REACTIVITY

Reactivity	Violent exothermic reaction with (some) bases. Violent to explosive reaction with many compounds e.g.: with (strong) oxidizers and with (strong) reducers.
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	Not established.
Conditions to avoid	Extremely high or low temperatures.
Hazardous decomposition products	Carbon oxides (CO, CO ₂). Sodium oxides. Carbon monoxide. Carbon dioxide. Thermal decomposition generates: corrosive vapours hydrogen iodide. Reducing agents. Strong acids. Strong bases. Cyanides Active metals,
Materials to avoid	fluorine, liquid chlorine, acetaldehyde, acetylene, carbides, powdered aluminium
Hazardous polymerization	Will not occur

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects
Acute toxicity: Harmful if swallowed.
LD/LC50 values relevant for classification:
Iodine CAS # 7553-56-2:
LD 50 Oral (Rat) 22g/Kg
Ortho Phosphoric Acid CAS # 7664-38-2:
LD 50 Oral (Rat) 1.25g/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

Toxicity:	Not available
Persistence and Degradability:	Not available
Bioaccumulative Potential:	Not available
Mobility in Soil:	Not available
Other Adverse Effects	Not available
Other Information:	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.

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14. TRANSPORTATION INFORMATION

Canadian T.D.G.: Regulated Material

Proper Shipping Name: Corrosive liquid, Acidic, Inorganic N.O.S.

Contains: Phosphoric acid

Hazard Class: 8

ID Number: UN 3264

Packing Group: III



U.S. Department of Transportation (DOT):

Proper Shipping Name: Corrosive liquid, Acidic, Inorganic N.O.S.

Contains: Phosphoric acid

Hazard Class: 8

ID Number: UN 3264

Packing Group: III



Water Transportation (IMO): Regulated Material

Proper Shipping Name: Corrosive liquid, Acidic, Inorganic N.O.S.

Contains: Phosphoric acid

Hazard Class: 8

ID Number: UN 3264

Packing Group: III



Air Transportation (IATA): Regulated Material

Proper Shipping Name: Corrosive liquid, Acidic, Inorganic N.O.S.

Contains: Phosphoric acid

Hazard Class: 8

ID Number: UN 3264

Packing Group: III

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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	Complies
PICCS	Complies
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

California Proposition 65

This product does not contain any Proposition 65 chemicals.

HMIS III Rating

Health: 3 Serious Hazard

Flammability: 0 Minimal Hazard

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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 29, 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