

SAFETY DATA SHEET

Diamond HD22 UCD Detergent

Dishwasher Powder.

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

Identification of Preparation: UCD Undercounter Detergent

Date of Safety Data Sheet: September 13, 2016.

Use of Preparation: Auto Dish Powder.

Company Identification: Hawco Products Ltd
61 Shaver Street,
Brantford,
Ontario
N3T 5V6

Company Emergency Telephone Number Emergency Phone: 800-813-9621

2. HAZARD IDENTIFICATION

Emergency Overview:

OSHA/ WHMIS 2014 Hazards:

Corrosive

Classification of substances or mixture

GHS-US/ Canadian classification:

Acute Toxicity 4 (Oral) H302

Acute Toxicity 4 (Dermal) H312

Skin Corrosion 1 H314

Eye Damage 1 H318

Label Elements

GHS-US 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):

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Chlorinated Auto-Dish Powder

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

P264: Wash hands, forearms, and exposed areas thoroughly after handling.

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

P271: Use only outdoors or in a well-ventilated area.

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

P301+P310+P312+ P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell.

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.

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 |
|--|------------|---------|---|
| Sodium Carbonate | 497-19-8 | 15-35 | Acute Toxicity Category 4 (Oral) - H302 Skin Irritation Category 2A - H315 Eye Irritant Category 2 - H319 |
| Sodium Dichloroisocyanurate, Dihydrate | 51580-86-0 | 1-5 | Acute Toxicity Category 4 (Oral) - H302 Skin Irritation Category 2A - H315 Eye Irritant Category 2 - H319 |
| Sodium Metasilicate Pentahydrate | 10213-79-3 | 15-35 | Acute Toxicity Category 4 (Oral) - H302 Skin Corrosion Category 1 A - H314 Eye Damage Category 1 - H318 |
| Pentasodium Triphosphate | 7758-29-4 | 15-35 | Acute Toxicity Category 4 (Oral) - H302 Skin Corrosion Category 2 A - H315 Eye Damage Category 2 - H319 STOT SE3- H355 |

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. Repeat if required. If irritation persists get medical attention. |
| Skin Contact: | Thoroughly wash exposed skin with soap and 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. Get medical aid. |
| Notes to Physician: | Treatment based on judgment of attending physician. |

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5. FIRE FIGHTING MEASURES

| | |
|--|---|
| Suitable extinguishing media: | As per surrounding fire. |
| Unsuitable extinguishing media: | No information available. |
| Special exposure hazards | Fire or excessive heat may produce hazardous decomposition products. |
| 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 mist or dust.

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 to prevent migration and entry into sewers or streams.

Methods for Cleaning Up: Clear up spills immediately by sweeping up 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 mist.

Information about fire - and explosion protection:

Keep respiratory protective device available.

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.

Information about storage in one common storage facility:

Do not store together with acid products.

Store away from 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.

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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. |
| Skin protection: | Use body-covering clothing. |
| Working hygiene: | Take usual precautions when handling. Workers should wash hands before eating, drinking or smoking. |
| Exposure Guidelines: | Contains no substances with occupational exposure limit values. |

| Source Material | TWA ppm | TWA mg/m ³ | STEL ppm | STEL mg/m ³ |
|------------------------------|---------|----------------------------------|----------|------------------------|
| Sodium Carbonate | | 15 mg/m ³ 8 hr (dust) | | |
| Sodium Metasilicate | | 10 mg/m ³ 8 hr | | |
| Pentasodium Tripolyphosphate | | 5 mg/m ³ 8 hr | | |

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

| <u>Property</u> | <u>Values</u> | <u>Odour</u> <u>Odour Threshold</u> <u>Remarks/Method</u> | |
|-----------------------------------|----------------------------|---|--------------------|
| Physical State | Powder | | |
| Appearance | Free Flowing. | | Lemon. |
| Colour | White. | | No data available. |
| pH 1 % | 11.5 -12.5 | 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 | No data available | 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 | 0.9-0.95 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 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 | |

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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

| | |
|--|--|
| Reactivity | Stable at normal ambient temperature and pressure. |
| Chemical stability | No decomposition if stored and applied as directed. |
| Thermal decomposition/conditions to avoid: | Stable under normal conditions. |
| Possibility of hazardous reactions | Reacts with acids. Reacts with reducing and oxidizing agents. |
| Conditions to avoid | Store away from reducing agents, water, acids, and acid salts of heavy metals, organic materials and flammable substances. |
| Hazardous decomposition products | Acids, oxidizing and reducing agents. |
| Materials to avoid | Oxides of carbon. |
| Hazardous polymerization | Will not occur |

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity:

LD/LC50 values relevant for classification

Routes of Entry Inhalation, ingestion, eye or skin

Sodium Carbonate CAS # 497-19-8:

LD 50 (Oral) Rat 4,090 mg/Kg

LC 50 (Inhalation) 2300 mg/m³ (Rat) 2 Hrs.

Sodium Dichloroisocyanurate, Dihydrate CAS #51580-86-0:

LD 50 (Oral) Rat 735 mg/Kg

LC 50 (Inhalation) 60 mg/m³ (Rat) 4 Hrs.

Dermal LD 50 2100 mg/kg (Rat)

Sodium Metasilicate CAS # 6834-92-0:

LD 50 (Oral) 1,280 mg/Kg

Pentasodium Tripolyphosphate CAS # 7758-29-4:

LD 50 (Oral) 2,000 mg/Kg

Carcinogenicity:

| Chemical Name | ACGIH | IARC | NTP | OSHA |
|-----------------|-------|------|-----|------|
| Not classified. | | | | |

IARC: (International Agency for Research on Cancer)

No ingredients listed

Chronic Effects:

Mutagenicity: No evidence of a mutagenic effect.

Teratogenicity: No evidence of a teratogenic effect (birth defect).

Sensitization: No evidence of a sensitization effect.

Reproductive: No evidence of negative reproductive effects.

Target Organ Effects:

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Acute: No information available

12. ECOLOGICAL INFORMATION

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

14. TRANSPORTATION INFORMATION

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

Canadian TDG (Road & Rail): Not Regulated

Water Transportation (IMO): Not Regulated

Air Transportation (IATA): Not Regulated

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

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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

RQ (reportable quantity, section 304 of EPA's list) Pentasodium Phosphate 5,000 lbs.

California Proposition 65

This product does not contain any Proposition 65 chemicals.

HMIS III Rating:

Health: 3

Flammability: 0 Minimal Hazard

Physical: 0 Minimal Hazard

Personal Protection: B

SDS US (GHS HazCom 2012) SDS Canada (GHS WHMIS 2015)

16. OTHER INFORMATION

Prepared By: Technical Department

Issuing Date: September 13, 2016.

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.

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End of Safety Data Sheet