

# SAFETY DATA SHEET

## HDA5 Diamond Enzymatic Presoak

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

**Identification of Preparation:** HDA Enzymatic Presoak.

**Date of Safety Data Sheet:** June 6, 2018

**Use of Preparation:** Laundry Detergent

**Company Identification:** Diamond 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 1A H314

Eye Damage Category 1 H318

Carcinogenicity Category 2 H351

**Label Elements**

**GHS 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

H351: Suspected of causing cancer

**Precautionary Statements (GHS):**

P102: Keep out of reach of children.

P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and understood.

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

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P264: Wash hands thoroughly after handling.

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

P280: Wear protective gloves / protective clothing / eye protection / face protection.

### Response Statements (GHS):

P301+P310+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately contact a 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 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.

P308+P311- IF exposed or concerned: Call a poison centre or doctor.

P315: Get immediate medical advice/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
Sodium Percarbonate	15630-89-4	1-5	Acute Toxicity (Oral) Category 4 - H302 Skin Corrosion / Irritation Category 2 - H315 Serious Eye Damage/Irritation Category 2A - H319
Trisodium Nitrotriacetate	139-13-9	1-5	Acute Toxicity (Oral) Category 4 - H302 Serious Eye Damage/Irritation Category 2A - H318 Carcinogenicity Category 2 - H351 Aquatic Hazard (Acute) Category 3 - H402
Sodium Metasilicate	6834-92-0	10-30	Acute Toxicity (Oral) Category 4 - H302 Skin Corrosion/Irritation Category 1A - H314 Serious Eye Damage/Eye Irritation Category 1 - H318
Sodium Carbonate	497-19-8	30-60	Acute Toxicity (Oral) Category 4 - H302 Skin Corrosion/Irritation Category 2 - H315 Serious Eye Damage/Eye Irritation Category 2A - H319
Sodium Hydroxide	1310-73-2	1-5	Corrosive to Metals Category 1 - H290 Acute Toxicity (Oral) Category 2 - H300 Skin Corrosion/Irritation Category 1A - H314 Serious Eye Damage / Eye Irritant Category 1 - H318 Aquatic Hazard (Acute) Category 3 - H402

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### 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. If the product is ingested, probable mucosal damage may contraindicate the use of gastric lavage. Treat the affected person appropriately.

### 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.
<b>Fire and explosion</b>	Not flammable. Not an explosive hazard.
<b>Further information</b>	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.

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### 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.

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 alkaline products or 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.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**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:** No ingredients with exposure limits.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Physical and Chemical Properties

<u>Physical State</u>	Powder	<u>Odour</u>	Typical
<u>Appearance</u>	Free Flowing.	<u>Odour Threshold</u>	No data available.
<u>Colour</u>	Yellow	<u>Remarks/Method</u>	
<u>Property</u>	<u>Values</u>		
pH 1 %	13.5-14.0	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:			
Upper Limit	No data available	None known	
Lower Limit	No data available	None known	
Vapour Pressure	No data available	None known	

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Vapour density	No data available	None known
Specific Gravity	1.0 g/cm <sup>3</sup>	None known
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

### 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	No data available.
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. Contact with metallic substances.
Hazardous decomposition products	Carbon oxides (CO, CO <sub>2</sub> ). Sodium oxides.
Materials to avoid	Metals such as aluminum. Reducing agents. 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:

#### Trisodium Nitrotriacetate CAS# 5064-31-3:

LD50 (Oral, rat): 1,300 mg/kg

#### Sodium Carbonate CAS#497-19-8:

LD50 (Oral/Rat): 4,090 mg/kg

**On the skin:** Causes skin irritation. Symptoms may include pain (which may be delayed), redness, and/or discomfort.

**On the eye:** Causes serious eye damage. Symptoms may include pain, redness, and watering.

**Ingestion:** May be irritating to mouth, throat and stomach. Symptoms may include stomach pain and nausea.

**Inhalation:** May be irritating to nose, throat, and respiratory tract. Symptoms may include coughing and difficulty breathing.

**Respiratory or Skin Sensitization:** No ingredients classified as sensitizer.

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### Additional toxicological information:

**Carcinogenicity:**

**Chemical Name** Trisodium Nitrotriacetate

**IARC 2B**

**NTP** Reasonably anticipated to be a human carcinogen

**Reproductive Toxicity:** Not classified as hazardous.

**Specific Target Organ Toxicity**

**Single Exposure:** Not classified as hazardous.

**Specific Target Organ Toxicity**

**Single Exposure:** Not classified as hazardous.

**Aspiration Hazard:** Not an aspiration hazard.

## 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:** 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 1 Kg can be shipped Limited Quantity)**

Proper Shipping Name: Corrosive Solid, N.O.S.

Contains: Sodium Metasilicate, Sodium Hydroxide

Hazard Class: 8

ID Number: UN 1759

Packing Group: II

**US DOT: Regulated Material**

Proper Shipping Name: Corrosive Solid, N.O.S.

Contains: Sodium Metasilicate, Sodium Hydroxide.

Hazard Class: 8

ID Number: UN 1759

Packing Group: II

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### Water Transportation (IMDG): Regulated Material

Proper Shipping Name: Corrosive Solid, N.O.S.  
Contains: Sodium Metasilicate, Sodium Hydroxide.  
Hazard Class: 8  
ID Number: UN 1759  
Packing Group: II



### Air Transportation (IATA): Regulated Material

Proper Shipping Name: Corrosive Solid, N.O.S.  
Contains: Sodium Metasilicate, Sodium Hydroxide.  
Hazard Class: 8  
ID Number: UN 1759  
Packing Group: II



## 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/NDL	Complies
EINECS/ELINCS	Complies

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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: 1 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:** June 6, 2018

#### **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**