

# SAFETY DATA SHEET.

HD20 Diamond Edge.

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

**Identification of Preparation:** HD20 Diamond Edge.  
**Date of Safety Data Sheet:** February 23, 2016  
**Use of Preparation:** Machine Dish Detergent  
**Company Identification:** Diamond Products  
Division of Hawco Products Ltd.  
61 Shaver Road,  
PO Box 1507,  
Brantford,  
Ontario N3T 5V6  
OFFICE: 519-759-2443

**Company Emergency Telephone Number** Emergency Phone: 1-800-813-9621

## 2. HAZARD IDENTIFICATION

### Emergency Overview:

### OSHA / WHMIS 2015 Hazards

Corrosive to Metals and Eyes.

### Classification of substance or mixture

### GHS-US/Canadian classification:

### GHS Hazards

Skin Corrosive 1A H314

Eye Damage 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

H351-Suspected of causing cancer

### Precautionary Statements (GHS-US):

P102: Keep out of reach of children.

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

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

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

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.

# SAFETY DATA SHEET.

HD20 Diamond Edge.

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.

P315: Get immediate medical advice/attention.

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

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical Description:** Chemical Blend

Ingredient	CAS#	% by Wt	Classification
Trisodium nitrotriacetate	005064-31-3	5-15	Acute Toxicity Category 4 (Oral) - H302 Serious Eye Damage/Irritation Category 2A – H318 Carcinogenicity Category 2 – H351 Aquatic Hazard (Acute) Category 3 – H402
Sodium Hydroxide	1310-73-2	15-30	Acute Toxicity Category 2 (Oral) - H300 Skin Corrosion Category 1A – H314 Eye Damage / Irritant Category 1– H318 Aquatic Hazard (Acute) Category 3 – H402
Sodium Polyacrylate	68479-09-4	1-5	Eye Irritant Category 2B – H320 Skin Irritant Category 2 – H315
Water	7732-18-5	60-100	

## 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.
<b>Fire and explosion</b>	Not flammable. Not an explosive hazard.
<b>Further information</b>	Keep containers and surrounding cool with water spray.

# SAFETY DATA SHEET.

HD20 Diamond Edge.

## 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 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

**Respiratory protection:** Use local exhaust or dilution ventilation.

**Hand protection:** Chemical resistant gloves.

# SAFETY DATA SHEET.

HD20 Diamond Edge.

**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.

Trisodium Nitrotriacetate AWEG TWA 1mg/m<sup>3</sup> total dust 8 hour ACGIH Ceiling 2 mg/m<sup>3</sup> dust 15 minute STEL

Sodium 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>	Mild
<b>Appearance</b>	Clear red-orange liquid.	<b>Odour Threshold</b>	No data available.
<b>Colour</b>	Clear red-orange.	<b>Remarks/Method</b>	
<b>Property</b>	<b>Values</b>		
<b>pH</b>	13.5 ± 0.5	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>	1.24 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</b>	No data available	None known	
<b>Temperature</b>			
<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:

<b>Softening Point</b>	No data available
<b>VOC Content %</b>	No data available
<b>Particle Size</b>	No data available
<b>Particle Size Distribution</b>	No data available

## 10. STABILITY AND REACTIVITY

**Reactivity** The substance decomposes on heating, on contact with acids and under

Date: February 23, 2016

SDS: Diamond Edge

# SAFETY DATA SHEET.

HD20 Diamond Edge.

	influence of light producing toxic and corrosive gases including. The substance is a strong oxidant and reacts with combustible and reducing materials. Stable under recommended handling and storage conditions (see section 7).
<b>Chemical stability</b>	
<b>Thermal decomposition/conditions to avoid:</b>	No decomposition if used and stored according to specifications.
<b>Possibility of hazardous reactions</b>	Hazardous polymerization will not occur.
<b>Conditions to avoid</b>	Direct sunlight. Extremely high or low temperatures. Contact with metallic substances.
<b>Hazardous decomposition products</b>	Carbon oxides (CO, CO <sub>2</sub> ). Sodium oxides.
<b>Materials to avoid</b>	Metals such as aluminum. Reducing agents. Strong acids.
<b>Hazardous polymerization</b>	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 Hydroxide CAS# 1310-73-2:**

LD50 (Oral, rat): 500 mg/kg

**On the skin:** Causes severe skin irritation and eye damage. (PH: 13.5).

**On the eye:** Causes serious eye damage. (PH: 13.5)

**Respiratory or Skin Sensitization:** Not classified.

**Additional toxicological information:**

**Carcinogenicity:**

**Chemical Name** Trisodium Nitrotriacetate

**IARC 2B**

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

## 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.

# SAFETY DATA SHEET.

HD20 Diamond Edge.

## 14. TRANSPORTATION INFORMATION

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

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

Contains ( Sodium Hydroxide)

Hazard Class: 8

ID Number: UN 1760

Packing Group: II



### Water Transportation (IMDG): Regulated Material

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

Contains (Sodium Hydroxide)

Hazard Class: 8

ID Number: UN 1760

Packing Group: II



### Air Transportation (IATA): Regulated Material

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

Contains (Sodium Hydroxide)

Hazard Class: 8

ID Number: UN 1760

Packing Group: II



### US DOT: Regulated material

### Air Transportation (IATA): Regulated Material

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

Contains (Sodium Hydroxide)

Hazard Class: 8

ID Number: UN 1760

Packing Group: II

# SAFETY DATA SHEET.

HD20 Diamond Edge.



## 15. REGULATORY INFORMATION

### 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

<b>TSCA</b>	-
<b>DSL/NDSL</b>	-
<b>EINECS/ELINCS</b>	Complies
<b>ENCS</b>	Complies
<b>IECSC</b>	Complies
<b>KECL</b>	-
<b>PICCS</b>	-
<b>AICS</b>	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. Federal Regulations

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

#### SARA 311/312 Hazard Categories

# SAFETY DATA SHEET.

HD20 Diamond Edge.

Acute Health Hazard	Yes
Chronic Health Hazard	no
Fire Hazard	Yes
Sudden Release of Pressure Hazard	Yes
Reactive Hazard	no

## Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

## CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

## **U.S. State Regulations**

### California Proposition 65

This product does not contain any Proposition 65 chemicals. NTA in this product is labeling exempt NSRL or no significant risk level.

### U.S. State Right-to-Know Regulations:

This product contains substances regulated by state right-to-know regulations.

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Trisodium Nitrotriacetate CAS#005064-31-3	X	X	X
Sodium Hydroxide CAS #1310-73-2	X	X	X

## HMIS III Rating

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.



# **SAFETY DATA SHEET.**

HD20 Diamond Edge.

**Issuing Date:** February 23, 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.

**End of Safety Data Sheet**