

SAFETY DATA SHEET

Diamond HDP520 Alkali Booster.

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

Identification of Preparation: Alkali Booster.

Date of Safety Data Sheet: January 14, 2018.

Use of Preparation: Cleaner.

Company Identification: Diamond Products Division of 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

Corrosive to Metals and Eyes.

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):

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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.

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.

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 Carbonate	497-19-8	15-30	Acute Toxicity Category 4 (Oral) - H302 Skin Corrosion/Irritation Category 2 - H315 Serious Eye Damage/Eye Irritation Category 2A - H319
Sodium Metasilicate	6834-92-0	15-40	Acute Toxicity Category 4 (Oral) - H302 Skin Corrosion/Irritation Category 1A - H314 Serious Eye Damage/Eye Irritation Category 1 - H318
Sodium Tripoly Phosphate	7758-29-4	5-10	Skin Corrosion/Irritation Category 2 - H315 Serious Eye Damage/Irritation Category 1 - H318
Sodium Hydroxide	1310-73-2	15-40	Corrosive to Metals Category 1 - H290 Acute Toxicity Category 2 (Oral) - H300 Skin Corrosion/Irritation Category 1A - H314 Serious Eye Damage/Eye Irritation Category 1 - H318 Aquatic Hazard (Acute) Category 3 - H402
Sodium Percarbonate	15630-89-4	5-10	Acute Toxicity Category 4 (Oral) - H302 Skin Corrosion / Irritation Category 2 - H315 Serious Eye Damage/Irritation Category 2A - H319

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.

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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.

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.

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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.
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:

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		
Sodium Hydroxide		2 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>	Typical. No data available.
Physical State	Powder		
Appearance	Free Flowing.		
Colour	Yellow.		
pH 1 %	13.5 ± 0.5	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	
Bulk Density	0.98-1.00 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 Metasilicate CAS # 6834-92-0:

LD 50 (Oral) 1,280 mg/Kg

Sodium Hydroxide CAS #1310-73-2

LD 50 (Oral) 140-340 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:

Acute: No information available

12. ECOLOGICAL INFORMATION

Toxicity:	Not classified
Persistence and Degradability:	Not available

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Bioaccumulative Potential: Not available
Mobility in Soil: Not available.
Other Adverse Effects None Known.
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

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 Hydroxide, Sodium Metasilicate
Hazard Class: 8
ID Number: UN 1759
Packing Group: II



US DOT: Regulated Material

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



Water Transportation (IMDG): Regulated Material

Proper Shipping Name: Corrosive Solid, N.O.S.
Contains: Sodium Hydroxide, Sodium Metasilicate
Hazard Class: 8
ID Number: UN 1759
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Air Transportation (IATA): Regulated Material
Proper Shipping Name: Corrosive Solid, N.O.S.
Contains: Sodium Hydroxide, Sodium Metasilicate
Hazard Class: 8
ID Number: UN 1759
Packing Group: II



15. REGULATION

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	-
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

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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: 3 Hazard

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: January 14, 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