



## AD120 – Metal Safe Machine Dish Detergent

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

Identification of Preparation:	AD120
Date of Safety Data Sheet:	February 24, 2020
Use of Preparation:	Dish Detergent
Company Identification:	Trichem Solutions Inc. 7506 Bath Road Mississauga, Ontario L4T 1L2 OFFICE: 905-672-8686
Company Emergency Telephone Number	Emergency Phone: 905-672-8686
Transportation Emergency Telephone Number	CANUTEC 613-996-6666 or * 666 for cell phone

### 2. HAZARD IDENTIFICATION

Emergency Overview:  
 OSHA / WHMIS 2015 Hazards  
 Classification of substance or mixture  
 GHS-US/Canadian classification:  
 GHS Hazards  
 Corrosive to Metal Category 1 H290  
 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  
 Precautionary Statements (GHS):  
 P260: Do not breathe mist, spray, and vapours.  
 P280: Wear face protection, protective clothing, protective gloves, and eye protection.



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### Response Statements (GHS):

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

P310 Immediately call a POISON CENTER or doctor/physician.

P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P363 Wash contaminated clothing before re-use.

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.

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

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Description: Chemical Blend

Ingredient	CAS#	% by Wt	Classification
Tetrasodium EDTA	64-02-8	1-5	Acute Toxicity Category 4 (Oral) - H302 Skin Corrosion/Irritation Category 2 – H315 Serious Eye Damage/Eye Irritation Category 2A – H318
Potassium Hydroxide	1310-58-3	7.5-15	Corrosive to Metals Category 1- H 290 Acute Toxicity Category 4(Oral) - H302 Skin Corrosion/Irritation Category 1A – H314 Serious Eye Damage/ Eye Irritation Category 2A – H318 Aquatic Hazard (Acute) Category 3 – H402
Sodium Silicate	1344-09-8	5-10	Skin Corrosion/Irritation Category 2 – H315 Serious Eye Damage/Irritation Category 2A – H319

### 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.



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### 5. FIRE FIGHTING MEASURES

<b>Suitable extinguishing media:</b>	Flood with water for extinguishing agent. CO <sub>2</sub> , 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.

#### 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.



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### 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

<b>Hand protection:</b>	Chemical resistant gloves.
<b>Eye protection:</b>	Safety goggles or full face shield.
<b>Skin protection:</b>	Use body-covering impervious clothing.
<b>Working hygiene:</b>	Take usual precautions when handling. Workers should wash hands before eating, drinking or smoking.
<b>Exposure Guidelines:</b>	
<b>Potassium Hydroxide:</b>	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

<u>Property</u>	<u>Values</u>	<u>Remarks/Method</u>	
Physical State	Liquid		
Appearance	Clear.	<b>Odour</b>	Mild
Colour	No colour	<b>Odour Threshold</b>	No data available.
pH	13.5 ± 0.5	<b>Remarks/Method</b>	
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	
Vapour density	No data available	None known	



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Specific Gravity	1.11-1.12 g/cm <sup>3</sup>	
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	None known.
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: Not classified.

LD/LC50 values relevant for classification

Potassium Hydroxide CAS # 1310-58-3:

LD 50 (Oral/Rat) 273 mg/Kg

Sodium Silicate CAS # 1344-09-8:

LD 50 (Oral/Rat) 1300 mg/Kg

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### Primary irritant effect:

**On the skin:** Strong caustic effect

**On the eye:** Strong caustic effect.

**Ingestion:** Unclassified.

**Inhalation:** Unclassified.

**Additional toxicological information:** The product shows the following dangers according to the calculation method:

Corrosive to eye.

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

### Additional toxicological information:

**Carcinogenicity:**

**Acute toxicity:** Harmful if swallowed.

**LD50/LC50 values relevant for classification:**

No data available.

**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:** None known

**Chemical Name**

**IARC** None

**NTP** None

## 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.



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### 14. TRANSPORTATION INFORMATION

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

Proper Shipping Name: CORROSIVE LIQUID, N.O.S., (Potassium Hydroxide)

Contains: Potassium Hydroxide

Hazard Class: 8

ID Number: UN 1760

Packing Group: II



US DOT: Regulated material

Proper Shipping Name: CORROSIVE LIQUID, N.O.S., (Potassium Hydroxide)

Contains: Potassium Hydroxide

Hazard Class: 8

ID Number: UN 1760

Packing Group: II



Water Transportation (IMDG): Regulated Material

Proper Shipping Name: CORROSIVE LIQUID, N.O.S., (Potassium Hydroxide)

Contains: Potassium Hydroxide

Hazard Class: 8

ID Number: UN 1760

Packing Group: II





## AD120 – Metal Safe Machine Dish Detergent

**Air Transportation (IATA): Regulated Material**

Proper Shipping Name: CORROSIVE LIQUID, N.O.S., (Potassium Hydroxide)

contains: Potassium Hydroxide

Hazard Class: 8

ID Number: UN 1760

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/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Complies
KECL	-
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





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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. NTA in this product is labeling exempt NSRL or no significant risk level.

#### 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:** Trichem Solutions Inc.  
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Mississauga, Ontario  
L4T 1L2  
905-672-8686

**Issuing Date:** February 24, 2020

#### **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**