



D100 – Concentrated Warewash Detergent

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

Identification of Preparation:	D100
Date of Safety Data Sheet:	February 24, 2020
Use of Preparation:	Machine 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.

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



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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 Irritant Category 2 – H315 Serious Eye Damage/Irritation Category 2A – H318
Sodium Hydroxide	1310-73-2	15-30	Corrosive to Metals Category 1 - H290 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	Skin Irritant Category 2 – H315 Eye Irritant Category 2B – H320

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:	Flood with water for extinguishing agent. CO ₂ , dry chemical, alcohol resistant foam
Unsuitable extinguishing media:	None known.
Special exposure hazards	Thermal decomposition releases irritating gases.
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 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

Respiratory protection:	Use local exhaust or dilution ventilation.
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: Sodium Hydroxide ACGIH Ceiling 2 mg/m³ OSHA PEL (TWA) 2 mg/m³

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	Liquid			
Appearance	Clear red-orange liquid.	Odour		Mild
Colour	Clear red-orange.	Odour Threshold		No data available.
pH	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	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
Specific Gravity	1.24-1.26 g/cm ³			



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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	No data available	None known
Temperature		
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	The substance decomposes on heating, on contact with acids and under influence of light producing toxic and corrosive gases including. The substance is a strong oxidant and reacts with combustible and reducing materials.
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 ₂). 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:

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)

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SDS: Trichem Solutions Inc. D100



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Respiratory or Skin Sensitization: Not classified.

Additional toxicological information:

Carcinogenicity:

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.

14. TRANSPORTATION INFORMATION

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

Proper Shipping Name: CORROSIVE LIQUID, BASIC, INORGANIC,N.O.S., (Sodium Hydroxide)

Contains: Sodium Hydroxide

Hazard Class: 8

ID Number: UN 3266

Packing Group: II





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Water Transportation (IMDG): Regulated Material

Proper Shipping Name: CORROSIVE LIQUID, BASIC, INORGANIC,N.O.S., (Sodium Hydroxide)

Contains: Sodium Hydroxide

Hazard Class: 8

ID Number: UN 3266

Packing Group: II



Air Transportation (IATA): Regulated Material

Proper Shipping Name: CORROSIVE LIQUID, BASIC, INORGANIC,N.O.S., (Sodium Hydroxide)

Contains: Sodium Hydroxide

Hazard Class: 8

ID Number: UN 3266

Packing Group: II



US DOT: Regulated material

Proper Shipping Name: CORROSIVE LIQUID, BASIC, INORGANIC,N.O.S., (Sodium Hydroxide)

Contains (Sodium Hydroxide)

Hazard Class: 8

ID Number: UN 3266

Packing Group: II





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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

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.



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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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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