

SAFETY DATA SHEET

SECTION 1: IDENTIFICATION

Product name: AUTO DISH LIQUID (ENV-1002)

Recommended use: liquid dishwasher detergent

Manufacturer: EnviroWay Detergent Manufacturing Incorporated

2241 Hanselman Ave.

Saskatoon, SK S7L 6A7, Canada

Tel: 306-244-7727

Fax: 306-244-7772

Toll free: 1-888-274-0862, www.envioway.ca

Emergency phone:

Leak and Spill: 1-800-667-7525 (SASK SPILLS) for the Province of Saskatchewan

1-866-845-6037 (Environment Canada) for anywhere else

In Transit: 1-613-996-6666 or *666 on cellular phone (CANUTEC)

Poison Control: 1-866-454-1212 (Saskatchewan)

SECTION 2: HAZARD IDENTIFICATION

Hazard classification

Acute toxicity (oral) Category 5

Skin corrosion/irritation Category 1

Serious eye damage/irritation Category 1

Signal word Danger



Hazard statements

May be harmful if swallowed.

Causes severe skin burns and eye damage.

Precautionary statements

Prevention Wash thoroughly after handling.

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

Response IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF ON SKIN (or hair): Rinse skin with water (or shower). Take off immediately all contaminated clothing and wash before reuse.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Immediately call a poison centre/doctor.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Immediately call a poison centre/doctor.

Call a POISON CENTRE/doctor if you feel unwell.
Storage Store locked up.
Disposal Dispose of in accordance with local regulations at government approved waste sites.

SECTION 3: COMPOSITION

The following ingredients have hazardous properties:

Ingredient	CAS #	% by weight
Potassium hydroxide	1310-58-3	50-60
Disodium metasilicate	6834-92-0	1-5
Tetrasodium ethylenediaminetetraacetate	64-02-8	5-10
Sodium Tripolyphosphate	7758-29-4	1-5

Ingredients not shown are either not hazardous or present below cut-off values. Ranges shown are due to batch-to-batch variation.

SECTION 4: FIRST AID MEASURES

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF ON SKIN (or hair): Wash with plenty of soap and water. Take off immediately all contaminated clothing and wash before reuse. If skin irritation or rash occurs: Get medical advice/attention.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Immediately call a poison centre/doctor.

IF exposed or concerned: Get medical advice/attention if you feel unwell.

SECTION 5: FIRE FIGHTING MEASURES

Flammable: No

Means of Extinction: Use water spray or fog.

Flashpoint: Not available

Special Fire Fighting Procedures: Use water spray to keep containers cool. Fire fighters should wear self-contained breathing apparatus and full protective clothing.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Leak and Spill Procedures: Mop spillage. Use a water rinse for final clean-up.

SECTION 7: HANDLING AND STORAGE

Handling Procedures and Equipment: Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Storage Requirements: Store locked up. Store in a dry, cool, well-ventilated area between 5°C to 20°C and away from direct sunlight. Store in original container with closed lid, away from incompatible materials such as strong oxidizing agents. Avoid food contamination.

SECTION 8: PERSONAL PROTECTION

Ingredient	Exposure limit – ACGIH	Exposure limit – OSHA	Exposure limit – IDLH

Potassium hydroxide	Not available	Not available	Not available
Disodium metasilicate	10 mg/m ³	15 mg/m ³	Not available
Tetrasodium ethylenediaminetetraacetate	Not available	Not available	Not available
Sodium Tripolyphosphate	Not available	Not available	Not available

Gloves: wear protective gloves

Respirator: not required for regular use

Eye: Safety glasses if handling large amounts and if there is significant probability of splashes.

Footwear: not required for regular use

Clothing: wear protective clothing

Other (Specify): An eye wash and safety shower should be nearby.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Yellow liquid with mild chemical scent

Odour: mild chemical scent

Odour Threshold (ppm): Information not available

pH: 13.5

Freezing Point: -96°C

Initial Boiling Point/Range: ~100°C

Flash point: not available

Evaporation Rate: Information not available

Flammability: Not flammable

Upper/lower flammability/explosive limit: Information not available

Vapour Pressure (mmHg): Information not available

Vapour Density (air = 1): > 1

Relative density: Information not available

Solubility in Water: Miscible

Partition coefficient: Information not available

Auto-ignition temperature: Information not available

Decomposition temperature: Information not available

Viscosity: Information not available

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability: Stable

Hazardous Polymerization: Will not occur.

Materials to Avoid: Harsh chemical substances such as strong acids. Some metals.

Hazardous Decomposition Products: Potassium carbonates or oxides of potassium.

SECTION 11: TOXICOLOGICAL INFORMATION

Ingredient	LD50 oral (mg/kg) (rat)	LD50 dermal (mg/kg)	LC50 inhalation (mg/L)
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Potassium hydroxide	622	Not available	Not available
Disodium metasilicate	1153	Not available	Not available
Tetrasodium ethylenediaminetetraacetate	Not available	Not available	Not available
Sodium Tripolyphosphate	>7940	1000	Not available

EFFECTS OF ACUTE EXPOSURE:

Ingestion: May be harmful if swallowed.

Skin Contact: Causes severe skin burns.

Eye Contact: Causes serious eye damage.

Inhalation: May cause damage to respiratory system through inhalation.

Germ cell mutagenicity: No data available

Carcinogenicity: None of the ingredients are expected to cause cancer.

Reproductive toxicity: No data available

STOT single exposure: No data available

STOT repeated exposure: Not applicable

Aspiration hazard: Not applicable.

Routes of exposure: Ingestion, inhalation, skin/eye exposure

EFFECTS OF CHRONIC EXPOSURE:

Prolonged skin contact destroys tissue. May cause dermatitis. Sodium hydroxide solution can penetrate to deeper layers of skin and corrosion will continue until removed. Burns may not be immediately painful and onset of pain may be delayed minutes to hours. Conditions that affect vision such as glaucoma and cataracts are possible late developments. In severe cases, there is progressive ulceration and clouding of eye tissue, which may lead to permanent blindness. Due to its corrosive nature, chronic exposure to high concentrations of aerosol containing sodium hydroxide solution could cause a potentially fatal build-up of fluid in the lungs (pulmonary edema). Symptoms of pulmonary edema (tightness in the chest and shortness of breath) can develop up to 48 hours after exposure and are aggravated by physical exertion.

Numerical measures of toxicity:

Oral: LD50 2154 mg/kg

Dermal: No data

Inhalation: No data

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:

Ingredient	Fish	Crustaceans	Algae
Potassium hydroxide	LC50 80 mg/L, 24h	Not available	Not available

Disodium metasilicate	LC50 530 mg/L, 96h	EC50 113 mg/L, 48h	LC50 160 mg/L, 96h
Tetrasodium ethylenediaminetetraacetate	LC50 >500 mg/L, 96h	Not available	Not available
Sodium Tripolyphosphate	LC50 1650 mg/L, 48h	Not available	Not available

Persistence and Degradability: No information available.

Bioaccumulation/Accumulation: No information available.

Mobility: No information available.

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal: Dispose of in accordance with local regulations at government approved waste sites.

SECTION 14: TRANSPORT INFORMATION

SPECIAL SHIPPING INFORMATION:

TDG (Canada)

TDG Proper Shipping Name: Corrosive liquid, basic, Inorganic, n.o.s.

Hazard Class: 8

UN Number: UN3266

Packing Group: III

Note: None

Marine Pollutant: No

DOT (US)

DOT Shipping Name: Corrosive liquids, basic, Inorganic, n.o.s.

DOT Hazardous Class: 8

DOT UN Number: UN3266

DOT Packing Group: III

DOT Reportable Quantity (lbs): Not Available.

Note: None

Marine Pollutant: No

SECTION 15: REGULATORY INFORMATION

Canadian DSL Inventory Status: All ingredients are specified on the Domestic Substances List or exempt.

SECTION 16: OTHER INFORMATION

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