

# SAFETY DATA SHEET

## SECTION 1: IDENTIFICATION

**Product name:** Auto Dish Liquid

**Other means of identification:** ENV-1002

**Recommended use:** liquid dishwasher detergent

**Restrictions on use:** Do not mix with acidic cleaners

**Manufacturer:** EnviroWay

2241 Hanselman Ave.

Saskatoon, SK S7L 6A7, Canada

Tel: 306-244-7727

Fax: 306-244-7772

Toll free: 1-888-274-0862, [www.enviroway.ca](http://www.enviroway.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

**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, and face protection.

Do not breathe mist, vapours or spray.

**Response** Immediately call a poison centre/doctor.

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.

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

**Storage**

Store locked up.

**Disposal**

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

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

**Substance/Mixture:** Mixture

The following ingredients have hazardous properties:

Chemical name	CAS #	% by weight
Potassium hydroxide	1310-58-3	20-30
Disodium metasilicate	6834-92-0	1-5
Tetrasodium ethylenediaminetetraacetate	64-02-8	5-10

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. Seek immediate medical 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.

Most important symptoms/effects/effects acute and delayed: See Section 11 for more detailed information on health effects and symptoms.

Immediate medical attention and special treatment needed: Not available

## SECTION 5: FIRE FIGHTING MEASURES

**Flammable:** No

**Means of Extinction:** Use water spray or fog.

**Unsuitable extinguishing media:** None

**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.

**Hazardous Decomposition Products:** Potassium carbonates or oxides of potassium

## 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: EXPOSURE CONTROLS/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 <sup>3</sup>	15 mg/m <sup>3</sup>	Not available
Tetrasodium ethylenediaminetetraacetate	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

**Odour:** Mild chemical scent

**Odour Threshold (ppm):** Information not available

**pH:** 13.5

**Melting point/Freezing Point:** -96°C

**Initial Boiling Point/Range:** ~100°C

**Flash point:** Information 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)
Potassium hydroxide	622	Not available	Not available
Disodium metasilicate	1153	Not available	Not available
Tetrasodium ethylenediaminetetraacetate	Not available	Not available	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
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Potassium hydroxide	LC <sub>50</sub> (96h):80mg/L (Gambusia affinis)	LC <sub>50</sub> (48h): 40mg/L (Ceriodaphnia dubia)	EC <sub>50</sub> (120h):1337mg/L
Disodium metasilicate	LC <sub>50</sub> (96h): 210mg/L (Danio rerio)	EC <sub>50</sub> (48h): 1700mg/L (Daphnia magna)	EC <sub>50</sub> (72h): 207mg/L (Desmodesmus subspicatus)
Tetrasodium ethylenediaminetetraacetate	LC <sub>50</sub> (96 h): >500mg/L (Leuciscus idus)	EC <sub>50</sub> (48h): >100mg/L	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. (Potassium hydroxide)

**Hazard Class:** 8

**UN Number:** UN3266

**Packing Group:** II

**Note:** None

**Marine Pollutant:** No

## SECTION 15: REGULATORY INFORMATION

**Canadian DSL Inventory Status:** All ingredients are specified on the Domestic Substances List or exempt. No safety, health, or environmental regulations specific to this product are known.

## SECTION 16: OTHER INFORMATION

**Date of latest revision:** Sept 9, 2019

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