

Material Safety Data Sheet



Section 1. Product and company identification

Product name : **DV-2000** **Code** : 7806

Product description : Concentrated liquid dishwasher & glasswasher detergent

Supplier/Manufacturer : **CHOISY LABORATORIES LTD.** **Phone: (819) 228-5564**
390, St-Laurent East, P.O. Box 6 **E-mail: info@choisy.com**
Louiseville (Quebec) J5V 2L7 **www.choisy.com**

In case of emergency : **Quebec Poison Control Centre:** (24 hours service)
-Quebec: (800) 463-5060 (no charge)
-All other places: (418) 656-8090
CANUTEC: (613) 996-6666 (collect)

Section 2. Hazards identification

Physical state : Liquid. [Transparent liquid.]

Signal word : DANGER!
CAUSES EYE AND SKIN BURNS.
See toxicological information (section 11)

Section 3. Composition/information on ingredients

<u>Name</u>	<u>CAS number</u>	<u>% by weight</u>
- Tetrasodium EDTA	64-02-8	15 - 30
- Potassium hydroxide	1310-58-3	1 - 5
- Sodium hydroxide	1310-73-2	1 - 5

Section 4. First aid measures

Eye contact : Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

Skin contact : Flush contaminated skin with plenty of water. Continue to rinse for at least 10 minutes. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Get medical attention immediately.

Inhalation : Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical attention immediately.

Ingestion : If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention immediately.

Section 5. Fire-fighting measures

Flammability of the product : No specific fire or explosion hazard.

Flash point : Closed cup: >93,3°C (>199,9°F) [Pensky-Martens, closed cup.]

Extinguishing media : Not applicable.

Section 6. Accidental release measures

Personal precautions : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Do not touch or walk through spilled material. Provide adequate ventilation. Put on appropriate personal protective equipment.

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods for cleaning up : Stop leak if without risk. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container.

Section 7. Handling and storage

- Handling** : Put on appropriate personal protective equipment. Do not ingest. Avoid contact with eyes, skin or clothing. Avoid breathing vapor or spray. Use only with adequate ventilation. Keep away from acids. Manipulate with care, avoid splashes.
- Storage** : Store in accordance with local regulations. Keep out of reach of children. Store away from direct sunlight. Do not store in unlabeled containers. Separate from acids. Keep container tightly closed in a cool, well-ventilated place.

Section 8. Exposure controls/personal protection

- Engineering measures** : No special ventilation requirements. Good general ventilation should be sufficient to control airborne levels.

Personal protection

- Eyes** : Splash goggles.
- Hands** : Wear chemical-resistant, impervious gloves.
- Respiratory** : No respiratory protection required under normal handling conditions.
- Other** : Wear appropriate protective clothing to prevent skin contact.

Consult local authorities for acceptable exposure limits.

Section 9. Physical and chemical properties

- Physical state** : Liquid. [Transparent liquid.]
- Color** : Orange.
- Odor** : Characteristic.
- pH** : 12 to 12,5 [Conc. (% w/w): 1%]
- Viscosity** : Not available.
- Boiling/condensation point** : 100°C (212°F)
- Melting/freezing point** : <0°C (<32°F)
- Relative density** : 1,25 to 1,26
- Solubility** : Easily soluble in the following materials: cold water and hot water.

Section 10. Stability and reactivity

- Chemical stability** : The product is stable.
- Conditions to avoid** : No specific data.
- Materials to avoid** : Reactive or incompatible with the following materials:
acids
- Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.

Section 11. Toxicological information

Potential acute health effects

- Eyes** : Corrosive to eyes.
- Skin** : Corrosive to the skin.
- Inhalation** : The inhalation of airborne droplets or aerosols may cause irritation of the respiratory tract.
- Ingestion** : May cause burns to mouth, throat and stomach.

Potential chronic health effects

- Carcinogenic Effects** : No known significant effects or critical hazards.
- Mutagenic Effects** : No known significant effects or critical hazards.
- Teratogenic Effects** : No known significant effects or critical hazards.
- Reproductive effects** : No known significant effects or critical hazards.
- Sensitizer** : No known significant effects or critical hazards.

Toxicity data

Product/ingredient name	Test	Species	Result
-------------------------	------	---------	--------

DV-2000

Code : 7806

Section 11. Toxicological information

- Tetrasodium EDTA	LD50 Dermal	Rabbit	>5000 mg/kg
	LD50 Oral	Rat	3030 mg/kg
- Potassium hydroxide	LD50 Oral	Rat	607 mg/kg
- Sodium hydroxide	LD50 Dermal	Rabbit	1350 mg/kg
	LD50 Oral	Rat	>140 mg/kg

Section 12. Ecological information

Ecotoxicity : No known significant effects or critical hazards.
Phosphate-free product.

Biodegradability : Not available.

Aquatic ecotoxicity


Product/ingredient name	Result	Species	Exposure
- Sodium hydroxide	Acute LC50 100 ppm	Crustaceans	48 hours

Section 13. Disposal considerations

Waste disposal : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Consult your local or regional authorities.

Section 14. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
TDG Classification	UN3267	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (- Tetrasodium EDTA, - Potassium hydroxide, solution)	8	II		Remarks Limited quantity in 1L or less

PG* : Packing group

Section 15. Regulatory information

WHMIS (Canada) : E

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Section 16. Other information

Date of issue : 2011-02-03.

Prepared by: Department of Research and Development of Choisy Laboratories Ltd.

Phone: (819) 228-5564

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of 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.