

Material Safety Data Sheet



Section 1. Product and company identification

Product name : **DV-OPTIMA** **Code** : 7810

Product description : Concentrated dishwasher & glasswasher rinse agent

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 : **WARNING!**
CAUSES EYE AND SKIN IRRITATION.
See toxicological information (section 11)

Section 3. Composition/information on ingredients

<u>Name</u>	<u>CAS number</u>	<u>% by weight</u>
- Alkylnaphthalene sulfonate, sodium salt	inconnu-unknown	1 - 5
- Citric acid	77-92-9	1 - 5

Section 4. First aid measures

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

Skin contact : Flush contaminated skin with plenty of water. Continue to rinse for at least 10 minutes. Get medical attention.

Inhalation : Move exposed person to fresh air. Get medical attention if symptoms occur.

Ingestion : If material has been swallowed, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if adverse health effects persist or are severe.

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. Do not touch or walk through spilled material.

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. Avoid contact with skin and eyes. 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. 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** : Safety glasses recommended.
- Hands** : Wear chemical-resistant, impervious gloves.
- Respiratory** : No respiratory protection required under normal handling conditions.
- Other** : Not applicable.

Consult local authorities for acceptable exposure limits.

Section 9. Physical and chemical properties

- Physical state** : Liquid. [Transparent liquid.]
- Color** : Yellow.
- Odor** : Characteristic.
- pH** : 2 to 3
- Viscosity** : Not available.
- Boiling/condensation point** : 100°C (212°F)
- Melting/freezing point** : 0°C (32°F)
- Relative density** : 1,025 to 1,035
- Solubility** : Easily soluble in the following materials: cold water.
Partially soluble in the following materials: hot water.

Section 10. Stability and reactivity

- Chemical stability** : The product is stable.
- Conditions to avoid** : No specific data.
- Materials to avoid** : No specific data.
- 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** : Irritating to eyes.
- Skin** : Irritating to skin.
- Inhalation** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.

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
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Section 11. Toxicological information

- Alkyl-naphthalene sulfonate, sodium salt	LD50 Oral	Rat	4300 mg/kg
- Citric acid	LD50 Oral	Mouse	5040 mg/kg
	LD50 Oral	Rat	3000 mg/kg

Section 12. Ecological information

Ecotoxicity	: No known significant effects or critical hazards.
Biodegradability	: Not available.

Section 13. Disposal considerations

Consult your local or regional authorities.

Section 14. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
TDG Classification	Not regulated.	-	-	-		Special provisions Not regulated product (TDG)

PG* : Packing group

Section 15. Regulatory information

WHMIS (Canada) : D-2B

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

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