



SAFETY DATA SHEET


BIOVERT Dishwashing liquid

Creation date : October 31, 2023

1. IDENTIFICATION

Trade name	BIOVERT DISHWASHING Citrus fresh / Lemon / Green apple
Other means of identification (product code)	Vrac BVV
Recommended use	Handwashing of dishes
Restriction on use	All other uses than those described on the product label and technical data sheet
Initial supplier identifier	Savons Prolav Inc. 525 rue Fernand Poitras Terrebonne, Québec, Canada, J6Y 1Y5 450-664-3889 Email: info@bio-vert.com
Emergency telephone number	Quebec poison control center: 1-800-463-5060

2. HAZARD IDENTIFICATION

Classification of the product	Skin irritation- Category 2 Eye irritation- Category 2
Symbols	
Signal word	Warning.
Hazard statements	Causes skin irritation. Causes serious eye irritation.
Precautionary statements	
Prevention	Wash hands thoroughly after handling. Wear protective gloves and eye protection.
Response	IF ON SKIN: Wash skin with plenty water If skin irritation occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention. Specific treatment (see section 4) Take off contaminated clothing and wash it before reuse.
Storage	Not applicable.
Disposal	Not applicable.

3. COMPOSITION / INFORMATION ON INGREDIENTS

List of ingredients present at a concentration above their threshold level:

Chemical name	CAS #	Concentration (Weight, %)
Sodium (C10-C16) alkylbenzene sulfonate	68081-81-2	3 - 7
Sodium (C14-C16) alkyl alpha-olefin sulfonate	68439-57-6	1 - 5
(C12-C14) Alkyl D-Glucopyranoside, oligomeric	110615-47-9	1 - 5

*The exact concentrations are retained as a trade secret.

4. FIRST AID MEASURES

Route of exposure	First-aid measures	Most important symptoms/effects, acute and delayed
Inhalation	No special requirements.	No symptoms are expected.
Skin	Remove contaminated clothing. Wash exposed area with copious amounts of water. Get medical attention if irritation or rash develops and persist.	Redness, swelling, burning sensation.
Eyes	Irrigate exposed eyes with copious amounts of tepid water for at least 15 minutes. Remove contact lenses if present and easy to do. Get medical attention if irritation persist.	Tearing, redness and burning sensation.
Ingestion	Rinse mouth with water. Call the Poison Control Center if symptoms occur or if a large amount does occur. If necessary, administer activated charcoal as a slurry (240 mL water/30g activated charcoal). Usual dose: 25 to 100g in adults/adolescents.	Information not available.
General	Show this safety data sheet to the treating physician. Wash contaminated clothing before reuse.	

5. FIREFIGHTING MEASURES

Suitable extinguishing media: Carbon dioxide, chemical powder or appropriate foam

Adapt fire extinguishing measures to the surrounding environment.

Specific hazards arising from the hazardous product, such as the nature of any hazardous combustion products

Hazardous combustion products may include and are not limited to: oxides of carbon and sodium.

Special protective equipment and precautions for firefighters

As in any fire, wear full protective clothing including self contained breathing apparatus.

Other information

This product is not combustible.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Not applicable.

For emergency responders

Wear gloves and protective glasses.

Environmental precautions	Prevent large spills from entering sewers or waterways.
Methods and material for containment and cleaning up	For small quantities, dilute with plenty of water and landfill or dispose of in sanitary sewer, if permitted by local regulations. Collect large spills with absorbent material (sand, diatomaceous earth, universal binder, sawdust). Dispose of waste in accordance with section 13

7. HANDLING AND STORAGE

Precautions for safe handling	Wash hands after handling the concentrate. Wash soiled clothing before reuse.
Condition for safe storage, including any incompatibilities	Storage at temperature between 10°C-30°C. Do not freeze. Avoid high temperatures.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure limit	The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
Appropriate engineering controls	Not applicable.
Individual protection measures	Wear gloves and protective glasses. Wash hands thoroughly after handling. To avoid repeated or prolonged contact of the concentrated product with the skin, wear appropriate protective clothing such as coveralls or long-sleeved shirt, long pants, shoes and socks. Contaminated work clothing should not be allowed out of the workplace.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Liquid
Colour	Colorless to slightly yellowish
Odour	Characteristic of the fragrance
Melting point and freezing point	Data not available
Boiling point or initial boiling point and boiling point range	>100°C
Flammability	Non-flammable product
Lower and upper explosion limit or lower and upper flammability limit	Data not available
Flash point	Data not available.
Auto-ignition temperature	Data not available
Decomposition temperature	Data not available
pH	6.5 - 8.0 (25°C)
Kinematic viscosity	Data not available
Solubility	Data not available
Partition coefficient – n-octanol/water (logarithmic value)	Data not available

Vapour pressure	Data not available
Density and relative density	1.020 - 1.035
Relative vapour density	Data not available
Particle characteristics	Non applicable

10. STABILITY AND REACTIVITY

Reactivity	Data not available.
Chemical stability	This product is stable under normal condition of use, storage and transport.
Possibility of hazardous reactions	No dangerous reactions known.
Conditions to avoid, including static discharge, shock or vibration	Avoid freezing and extreme heat conditions.
Incompatible materials	Information not available.
Hazardous decomposition products	No hazardous decomposition products are known under conditions of normal use.

11. TOXICOLOGICAL INFORMATION

Experimental information relating to the toxicological properties of the products itself is not available.

Information on the likely routes of exposure

Inhalation Skin Eye Ingestion

Symptoms related to the physical, chemical and toxicological characteristics

Summary by routes of exposure:

Skin	Redness, swelling, burning sensation.
Eye	Irritation, pain, swelling, lacrimation.
Ingestion	Information not available.

Information by hazard category:

Acute toxicity	Acute oral and dermal toxicity estimate: >5000 mg/kg
Sodium (C10-C16) alkylbenzene sulfonate (CAS#: 68081-81-2)	Category 4- Acute oral toxicity
Skin corrosion/irritation	
Sodium (C10-C16) alkylbenzene sulfonate (CAS#: 68081-81-2)	Category 2- Skin irritation
Sodium (C14-C16) alkyl alpha-olefin sulfonate (CAS#: 68439-57-6)	Category 2- Skin irritation
Serious eye damage/eye irritation	Based on available ingredient data, criteria are not met.
Sodium (C10-C16) alkylbenzene sulfonate (CAS#: 68081-81-2)	Category 1- Eye corrosion
Sodium (C14-C16) alkyl alpha-olefin sulfonate (CAS#: 68439-57-6)	Category 2- Eye irritation
(C12-C14) Alkyl D-Glucopyranoside, oligomeric (CAS#: 110615-47-9)	Category 2- Eye irritation
Respiratory or skin sensitization	Based on available ingredient data, criteria are not met.

Germ cell mutagenecity	Based on available ingredient data, criteria are not met.
Carcinogenicity	Based on available ingredient data, criteria are not met.
Reproductive toxicity	Based on available ingredient data, criteria are not met.
Specific target organ toxicity- Single exposure	Based on available ingredient data, criteria are not met.
Sodium (C10-C16) alkylbenzene sulfonate (CAS#: 68081-81-2)	Category 3- Target organs- Respiratory system
Specific target organ toxicity- Repeated exposure	Based on available ingredient data, criteria are not met.
Aspiration hazards	Based on available ingredient data, criteria are not met.

Delayed and immediate effects, and chronic effects from short-term and long-term exposure
Frequent or prolonged skin contact may cause dryness or irritation.

12. ECOLOGICAL INFORMATION

Ecotoxicity	Data not available.
Persistence and degradability	More than 98% of the organic ingredients contained in the product are readily biodegradable according to the Organisation for Economic Cooperation and Development (OECD) 301 guidelines.
Bioaccumulative potential	Data not available
Mobility in soil	Data not available
Other adverse effects	Data not available.

13. DISPOSAL CONSIDERATIONS

Information on safe handling for disposal and methods of disposal, including any contaminated packaging.

Landfill or dispose of small quantities in sanitary sewers, if permitted by local regulations. Larger quantities should be disposed of in accordance with local authority standards. Rinse and recycle the bottle if local facilities permit.

14. TRANSPORT INFORMATION

This product is not classified as hazardous under the Transportation of Dangerous Goods (TDG) regulations.

15. REGULATORY INFORMATION

Safety, health and environmental regulations, made within or outside Canada, specific to the product in question.

This product has been classified in accordance with the hazard criteria of the Canadian Hazardous Products Regulations. The safety data sheet contains all the information required by the Hazardous Products Regulations. All components are listed on Canada's Domestic Substances List (DSL), as described by the Canadian Environmental Protection Act.

16. OTHER INFORMATION

Publication date: October 31, 2023.

Revision date: -

Version: 2.0

This safety data sheet summarizes, to the best of our knowledge, information on the health and safety risks of the product and general advice on how to handle the product safely in the workplace. Each user should evaluate and control the risks arising from his or her use of the product in the workplace, including in combination with other products, before use. This information is presented in good faith and is based on current data believed to be correct to the best of our knowledge.