

## **SAFETY DATA SHEETS**

**This SDS packet was issued with item:**

077076052

**The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).**

077075955



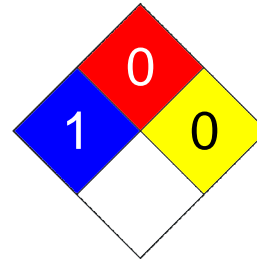
# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

**Product Name** VistaClean Irrigant Solution Concentrate  
**CAS #** Mixture  
**Product use** An aqueous cleaner derived from citrus botanicals which can emulsify contaminants, soils, and oxidation products in waterlines protecting the lines and system components from deposits and scale  
**Manufacturer** Hu-Friedy Mfg. Co., LLC  
 3232 N. Rockwell  
 Chicago, IL 60618-5982 US  
 Phone: 773.975.6100  
 Fax: 773.868.3599  
 Emergency Phone: 1-800-535-5053  
 Outside US: 001-352-323-3500

| LEGEND<br>HMIS/NFPA |   |
|---------------------|---|
| Severe              | 4 |
| Serious             | 3 |
| Moderate            | 2 |
| Slight              | 1 |
| Minimal             | 0 |

|                     |     |
|---------------------|-----|
| Health              | / 1 |
| Flammability        | 0   |
| Physical Hazard     | 0   |
| Personal Protection | X   |



## 2. Hazards Identification

**Emergency overview** WARNING  
 CAUSES EYE IRRITATION.  
 Avoid contact with eyes. Wash thoroughly after handling.

**Potential short term health effects**

**Routes of exposure** Eye, Skin contact, Inhalation, Ingestion.

**Eyes** Severe irritation to eyes when tested according to method 16 CFR 1500.42.

**Skin** Not expected to be a primary skin irritant.

**Inhalation** At 10 mg/cubic feet, mild mucous membrane inflammation and mild irritation to nasal cavity may occur.

**Ingestion** Irritating to mouth, throat, and stomach.

**Target organs** Eyes. Kidney. Respiratory system. Skin.

**Chronic effects** Prolonged or repeated exposure can cause drying, defatting and dermatitis.

**Signs and symptoms** Symptoms may include redness, edema, drying, defatting and cracking of the skin. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

**OSHA Regulatory Status** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**Potential environmental effects** See section 12.

## 3. Composition / Information on Ingredients

| Ingredient(s)       | CAS #      | Percent |
|---------------------|------------|---------|
| Grapefruit, extract | 90045-43-5 | 40 - 70 |
| Glycerol            | 56-81-5    | 30 - 60 |

## 4. First Aid Measures

**First aid procedures**

**Eye contact** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Obtain medical attention if irritation persists.

|                           |   |
|---------------------------|---|
| <b>Skin contact</b>       | Flush with cool water. Wash with soap and water. Obtain medical attention if irritation persists.   |
| <b>Inhalation</b>         | If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.  |
| <b>Ingestion</b>          | Do not induce vomiting. Never give anything by mouth if victim is unconscious, or is convulsing. Obtain medical attention.  |
| <b>Notes to physician</b> | Symptoms may be delayed.  |
| <b>General advice</b>     | If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children. |

## 5. Fire Fighting Measures

|   |   |
|---|---|
| <b>Flammable properties</b>                       | Not flammable by WHMIS/OSHA criteria.   |
| <b>Extinguishing media</b>                        |   |
| <b>Suitable extinguishing media</b>               | Alcohol foam. Water spray. Dry chemical. Carbon dioxide.  |
| <b>Unsuitable extinguishing media</b>             | Not available   |
| <b>Protection of firefighters</b>                 |   |
| <b>Specific hazards arising from the chemical</b> | Not available   |
| <b>Protective equipment for firefighters</b>      | Firefighters should wear full protective clothing including self contained breathing apparatus. |
| <b>Hazardous combustion products</b>              | May include and are not limited to: Oxides of carbon.   |
| <b>Explosion data</b>                             |   |
| <b>Sensitivity to mechanical impact</b>           | Not available   |
| <b>Sensitivity to static discharge</b>            | Not available   |

## 6. Accidental Release Measures

|                                  |   |
|----------------------------------|---|
| <b>Personal precautions</b>      | Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.   |
| <b>Environmental precautions</b> | Prevent entry into waterways, sewers, basements or confined areas.  |
| <b>Methods for containment</b>   | Stop leak if you can do so without risk.  |
| <b>Methods for cleaning up</b>   | Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. Never return spills to original containers for re-use. |

## 7. Handling and Storage

|                 |  |
|-----------------|--|
| <b>Handling</b> | Use good industrial hygiene practices in handling this material.<br>Avoid contact with eyes.<br>When using do not eat or drink.<br>Wash thoroughly after handling. |
| <b>Storage</b>  | Keep out of reach of children. Store in a closed container away from incompatible materials.   |

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## 8. Exposure Controls / Personal Protection

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### Exposure limits

| Ingredient(s)       | Exposure Limits   |
|---------------------|---|
| Glycerol            | <b>ACGIH-TLV</b><br>TWA: 10 mg/m <sup>3</sup><br><b>OSHA-PEL</b><br>TWA: 15 mg/m <sup>3</sup> |
| Grapefruit, extract | <b>ACGIH-TLV</b><br>Not established<br><b>OSHA-PEL</b><br>Not established                     |

### Engineering controls

General ventilation normally adequate.

### Personal protective equipment

|                                       |   |
|---------------------------------------|---|
| <b>Eye / face protection</b>          | Wear safety glasses with side shields.  |
| <b>Hand protection</b>                | Rubber gloves. Confirm with a reputable supplier first.   |
| <b>Skin and body protection</b>       | As required by employer code. Use of an impervious apron is recommended.  |
| <b>Respiratory protection</b>         | Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.  |
| <b>General hygiene considerations</b> | Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. Wash hands before breaks and immediately after handling the product. |

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## 9. Physical and Chemical Properties

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|   |                               |
|---|-------------------------------|
| <b>Appearance</b>                                     | Liquid.                       |
| <b>Color</b>  | Yellow                        |
| <b>Form</b>   | Liquid                        |
| <b>Odor</b>   | mild citrus                   |
| <b>Odor threshold</b>                                 | Not available                 |
| <b>Physical state</b>                                 | Liquid                        |
| <b>pH</b>   | 2 - 3 (10%)                   |
| <b>Melting point</b>                                  | Not available                 |
| <b>Freezing point</b>                                 | Not available                 |
| <b>Boiling point</b>                                  | 300 °F (148.88 °C)            |
| <b>Pour point</b>                                     | Not available                 |
| <b>Evaporation rate</b>                               | Not available                 |
| <b>Flash point</b>                                    | 350 °F (176.66 °C)            |
| <b>Auto-ignition temperature</b>                      | Not available                 |
| <b>Flammability limits in air, lower, % by volume</b> | Not available                 |
| <b>Flammability limits in air, upper, % by volume</b> | Not available                 |
| <b>Vapor pressure</b>                                 | Not available                 |
| <b>Vapor density</b>                                  | 4.1                           |
| <b>Specific gravity</b>                               | 1.110                         |
| <b>Octanol/water coefficient</b>                      | Not available                 |
| <b>Solubility (H<sub>2</sub>O)</b>                    | Soluble                       |
| <b>VOC (Weight %)</b>                                 | Not available                 |
| <b>Viscosity</b>                                      | Viscous                       |
| <b>Bulk density</b>                                   | 71 lb/cu ft / 9.5 lbs./gallon |
| <b>Percent volatile</b>                               | Non-volatile                  |

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## 10. Stability and Reactivity

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|                   |  |
|-------------------|--|
| <b>Reactivity</b> | Reacts vigorously with alkaline material. This product may react with reducing agents. |
|-------------------|--|

|   |  |
|---|--|
| <b>Possibility of hazardous reactions</b> | Hazardous polymerization does not occur.                   |
| <b>Chemical stability</b>                 | Stable under recommended storage conditions.               |
| <b>Conditions to avoid</b>                | Excessive heat. Do not mix with other chemicals.           |
| <b>Incompatible materials</b>             | Bases. Reducing agents. Oxidizers. Anionic wetting agents. |
| <b>Hazardous decomposition products</b>   | May include and are not limited to: Oxides of carbon.      |

## 11. Toxicological Information

### Component analysis - LC50

| Ingredient(s)       | LC50          |
|---------------------|---------------|
| Glycerol            | Not available |
| Grapefruit, extract | Not available |

### Component analysis - Oral LD50

| Ingredient(s)       | LD50            |
|---------------------|-----------------|
| Glycerol            | 12600 mg/kg rat |
| Grapefruit, extract | 5000 mg/kg rat  |

### Effects of acute exposure

|   |   |
|---|---|
| <b>Eye</b>  | Severe irritation to eyes when tested according to method 16 CFR 1500.42.                             |
| <b>Skin</b>   | Not expected to be a primary skin irritant.   |
| <b>Inhalation</b>                                   | At 10 mg/cubic feet, mild mucous membrane inflammation and mild irritation to nasal cavity may occur. |
| <b>Ingestion</b>                                    | Irritating to mouth, throat, and stomach.   |
| <b>Sensitization</b>                                | Non-hazardous by WHMIS/OSHA criteria.   |
| <b>Chronic effects</b>                              | Non-hazardous by WHMIS/OSHA criteria.   |
| <b>Carcinogenicity</b>                              | Non-hazardous by WHMIS/OSHA criteria.   |
| <b>Mutagenicity</b>                                 | Non-hazardous by WHMIS/OSHA criteria.   |
| <b>Reproductive effects</b>                         | Non-hazardous by WHMIS/OSHA criteria.   |
| <b>Teratogenicity</b>                               | Non-hazardous by WHMIS/OSHA criteria.   |
| <b>Name of Toxicologically Synergistic Products</b> | Not available   |

## 12. Ecological Information

|  |   |
|--|---|
| <b>Ecotoxicity</b>   | See below   |
| <b>Ecotoxicity - Freshwater Fish - Acute Toxicity Data</b> |   |
| Glycerol   | 56-81-5 96 Hr LC50 Oncorhynchus mykiss: 51 - 57 mL/L [static] |
| <b>Ecotoxicity - Water Flea - Acute Toxicity Data</b>      |   |
| Glycerol   | 56-81-5 24 Hr EC50 Daphnia magna: >500 mg/L                   |
| <b>Persistence / degradability</b>                         | Not available   |
| <b>Bioaccumulation / accumulation</b>                      | Not available   |
| <b>Mobility in environmental media</b>                     | Not available   |
| <b>Environmental effects</b>                               | Not available   |
| <b>Aquatic toxicity</b>                                    | Not available   |
| <b>Partition coefficient</b>                               | Not available   |
| <b>Chemical fate information</b>                           | Not available   |
| <b>Other adverse effects</b>                               | Not available   |

## 13. Disposal Considerations

|  |  |
|--|--|
| <b>Disposal instructions</b>                 | Review federal, state/provincial, and local government requirements prior to disposal. |
| <b>Waste from residues / unused products</b> | Not available  |
| <b>Contaminated packaging</b>                | Not available  |

## 14. Transport Information

### U.S. Department of Transportation (DOT)

Not regulated as dangerous goods.

### Transportation of Dangerous Goods (TDG - Canada)

Not regulated as dangerous goods.

## 15. Regulatory Information

**Canadian federal regulations** 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.

**WHMIS status** Controlled

**WHMIS classification** Class D - Division 2B

**WHMIS labeling**



### Occupational Safety and Health Administration (OSHA)

**29 CFR 1910.1200 hazardous chemical** Yes

**US Federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

### CERCLA (Superfund) reportable quantity

None

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories** Immediate Hazard - Yes  
Delayed Hazard - No  
Fire Hazard - No  
Pressure Hazard - No  
Reactivity Hazard - No

**Section 302 extremely hazardous substance** No

**Section 311 hazardous chemical** Yes

**Clean Air Act (CAA)** Not available

**Clean Water Act (CWA)** Not available

**State regulations** This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

#### U.S. - Massachusetts - Right To Know List

Glycerol 56-81-5 Present (mist)

#### U.S. - Minnesota - Hazardous Substance List

Glycerol 56-81-5 Present (mist)

#### U.S. - New Jersey - Right to Know Hazardous Substance List

Glycerol 56-81-5 sn 3319

#### U.S. - Pennsylvania - RTK (Right to Know) List

Glycerol 56-81-5 Present

#### U.S. - Rhode Island - Hazardous Substance List

Glycerol 56-81-5 Toxic; Flammable

### Inventory name

| Country(s) or region        | Inventory name                                | On inventory (yes/no)* |
|-----------------------------|---|------------------------|
| Canada                      | Domestic Substances List (DSL)                | Yes                    |
| Canada                      | Non-Domestic Substances List (NDSL)           | No                     |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | Yes                    |

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

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## 16. Other Information

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|                          |   |
|--------------------------|---|
| <b>Disclaimer</b>        | Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document. |
| <b>Issue date</b>        | 27-Oct-2011   |
| <b>Effective date</b>    | 15-Jan-2012   |
| <b>Expiry date</b>       | 15-Jan-2015   |
| <b>Prepared by</b>       | Dell Tech Laboratories Ltd. (519) 858-5021  |
| <b>Other information</b> | For an updated MSDS, please contact the supplier/manufacturer listed on the first page of the document.   |



How the best perform

# VistaClean Irrigant Solution Concentrate

## Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

Date of issue: 09/11/2017

Revision date: 09/11/2017

Version: 1.0

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
Product name : VistaClean Irrigant Solution Concentrate  
Product code : IMS-1452

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use : Cleaner

#### 1.3. Details of the supplier of the safety data sheet

##### Manufacturer

Hu-Friedy Mfg. Co., LLC  
3232 N Rockwell  
Chicago, IL 60618-5982 - US  
T 773-975-6100

##### Distributors

Acmedent Corp.  
91 Citation Dr, Unit 5, Concord L4K 2Y8  
905-761-6850  
Central Dental Supply  
103-251 Saulteaux Crescent, Winnipeg R3J 3C7  
204-885-7530

##### Distributors

Henry Schein Canada, Inc.  
345 Townline Road, SS4, Niagara-On-The-Lake L0S 1J0  
905-646-1711  
K-Dental Inc.  
750 Cochrane Drive, Markham L3R 8E1  
416-293-8365  
Patterson Dentaire Canada  
1205, Boul.henri-Bourassa West, Montreal H3M 3E6  
418-688-6546  
Sinclair Dental Company Ltd.  
900 Harbourside Drive, North Vancouver V7P 3T8  
604-986-1544

#### 1.4. Emergency telephone number

Emergency number : 1-800-535-5053

### SECTION 2: Hazard identification

#### 2.1. Classification of the substance or mixture

##### GHS classification

Skin Irrit. 2  
Skin Sens. 1

#### 2.2. Label elements

##### GHS labelling

Hazard pictograms (GHS) :



GHS07

Signal word (GHS) :

Warning

Hazard statements (GHS) :

Causes skin irritation. May cause an allergic skin reaction

Precautionary statements (GHS) :

Avoid breathing dust, fume, gas, mist, spray, vapours. Wash hands thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves, protective clothing. If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. Wash contaminated clothing before reuse. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

#### 2.3. Other hazards

No additional information available

#### 2.4. Unknown acute toxicity

Not applicable



# VistaClean Irrigant Solution Concentrate

## Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

| Name                | Product identifier   | %    |
|---------------------|----------------------|------|
| Grapefruit, extract | (CAS-No.) 90045-43-5 | 57.5 |
| Glycerin            | (CAS-No.) 56-81-5    | 38.5 |

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

- First-aid measures after inhalation : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
- First-aid measures after skin contact : IF ON SKIN: Wash with plenty of Water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention.
- First-aid measures after eye contact : 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 advice/attention.
- First-aid measures after ingestion : Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.

#### 4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/effects after inhalation : May cause irritation to the respiratory tract.
- Symptoms/effects after skin contact : Causes skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin. May cause an allergic skin reaction.
- Symptoms/effects after eye contact : May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.
- Symptoms/effects after ingestion : May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Symptoms may be delayed. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

- Suitable extinguishing media : Alcohol foam. Water spray. Dry chemical. Carbon dioxide (CO<sub>2</sub>).
- Unsuitable extinguishing media : None known.

#### 5.2. Special hazards arising from the substance or mixture

- Fire hazard : Products of combustion may include, and are not limited to: oxides of carbon.
- Reactivity : No dangerous reactions known under normal conditions of use.

#### 5.3. Advice for firefighters

- Protection during firefighting : Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

##### 6.1.1. For non-emergency personnel

No additional information available

##### 6.1.2. For emergency responders

No additional information available

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters.

# VistaClean Irrigant Solution Concentrate

## Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

### 6.3. Methods and material for containment and cleaning up

- For containment : Absorb and/or contain spill with inert material (sand, vermiculite or other appropriate material), then place in suitable container. Do not flush into surface water or sewer system. Wear recommended personal protective equipment.
- Methods for cleaning up : Sweep or shovel spills into appropriate container for disposal. Provide ventilation.

### 6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection"

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Precautions for safe handling : Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not swallow. Handle and open container with care. When using do not eat, drink or smoke. Provide adequate ventilation.
- Hygiene measures : Wash contaminated clothing before reuse. Always wash hands after handling the product.

### 7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Keep out of the reach of children. Keep container tightly closed. Store in a dry, cool and well-ventilated place.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

| Grapefruit, extract (90045-43-5) |                                     |   |
|----------------------------------|-------------------------------------|---|
| Not applicable                   |                                     |   |
| Glycerin (56-81-5)               |                                     |   |
| OSHA                             | OSHA PEL (TWA) (mg/m <sup>3</sup> ) | 15 mg/m <sup>3</sup> (mist, total particulate)<br>5 mg/m <sup>3</sup> (mist, respirable fraction) |

### 8.2. Exposure controls

- Appropriate engineering controls : Ensure good ventilation of the work station.
- Hand protection : Wear suitable gloves resistant to chemical penetration.
- Eye protection : Safety glasses or goggles are recommended when using product.
- Skin and body protection : Wear suitable protective clothing.
- Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
- Environmental exposure controls : Avoid release to the environment.
- Other information : Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

- Physical state : Liquid
- Appearance : Clear
- Colour : Yellow
- Odour : Mild Citrus.
- Odour threshold : No data available
- pH : 2 - 3 (10% solution)
- Melting point : No data available
- Freezing point : No data available
- Boiling point : 300 °F / 149 °C
- Flash point : No data available
- Relative evaporation rate (butylacetate=1) : No data available
- Flammability (solid, gas) : Not flammable
- Vapour pressure : No data available
- Relative vapour density at 20 °C : 4.1
- Relative density : 1.11

# VistaClean Irrigant Solution Concentrate

## Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

|                                       |                     |
|---------------------------------------|---------------------|
| Solubility                            | : Soluble           |
| Partition coefficient n-octanol/water | : No data available |
| Auto-ignition temperature             | : No data available |
| Decomposition temperature             | : No data available |
| Viscosity, kinematic                  | : No data available |
| Viscosity, dynamic                    | : No data available |
| Explosive limits                      | : No data available |
| Explosive properties                  | : No data available |
| Oxidising properties                  | : No data available |

### 9.2. Other information

|              |                              |
|--------------|------------------------------|
| Bulk density | : 71 lb/cu ft / 9.5 lbs./gal |
|--------------|------------------------------|

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No dangerous reactions known under normal conditions of use.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Heat. Incompatible materials. Do not mix with other chemicals.

### 10.5. Incompatible materials

Strong oxidizing agents.

### 10.6. Hazardous decomposition products

May include, and are not limited to: oxides of carbon.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

|                             |                   |
|-----------------------------|-------------------|
| Acute toxicity (oral)       | : Not classified. |
| Acute toxicity (dermal)     | : Not classified. |
| Acute toxicity (inhalation) | : Not classified. |

| Glycerin (56-81-5)  |  |
|---------------------|--|
| LD50 oral rat       | 12600 mg/kg                                  |
| LD50 dermal rabbit  | > 10 g/kg                                    |
| LC50 inhalation rat | > 570 mg/m <sup>3</sup> (Exposure time: 1 h) |

|                                     |  |
|-------------------------------------|--|
| Skin corrosion/irritation           | : Causes skin irritation.<br>pH: 2 - 3 (10% solution)  |
| Serious eye damage/irritation       | : Not classified.<br>pH: 2 - 3 (10% solution)  |
| Respiratory or skin sensitisation   | : May cause an allergic skin reaction.   |
| Germ cell mutagenicity              | : Not classified.  |
| Carcinogenicity                     | : Not classified.  |
| Reproductive toxicity               | : Not classified.  |
| STOT-single exposure                | : Not classified.  |
| STOT-repeated exposure              | : Not classified.  |
| Aspiration hazard                   | : Not classified.  |
| Symptoms/effects after inhalation   | : May cause irritation to the respiratory tract.   |
| Symptoms/effects after skin contact | : Causes skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin. May cause an allergic skin reaction. |

# VistaClean Irrigant Solution Concentrate

## Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

|                                    |   |
|------------------------------------|---|
| Symptoms/effects after eye contact | : May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling. |
| Symptoms/effects after ingestion   | : May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.  |
| Other information                  | : Likely routes of exposure: ingestion, inhalation, skin and eye.   |

### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - general : May cause long-term adverse effects in the aquatic environment.

#### Glycerin (56-81-5)

|             |  |
|-------------|--|
| LC50 fish 1 | 51 - 57 ml/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static]) |
|-------------|--|

#### 12.2. Persistence and degradability

##### VistaClean Irrigant Solution Concentrate

|                               |                  |
|-------------------------------|------------------|
| Persistence and degradability | Not established. |
|-------------------------------|------------------|

#### 12.3. Bioaccumulative potential

##### VistaClean Irrigant Solution Concentrate

|                           |                  |
|---------------------------|------------------|
| Bioaccumulative potential | Not established. |
|---------------------------|------------------|

#### Glycerin (56-81-5)

|            |                      |
|------------|----------------------|
| BCF fish 1 | (no bioaccumulation) |
|------------|----------------------|

|                                       |       |
|---------------------------------------|-------|
| Partition coefficient n-octanol/water | -1.76 |
|---------------------------------------|-------|

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

Effect on the global warming : No known effects from this product.

Other information : No other effects known.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. The generation of waste should be avoided or minimized wherever possible.

### SECTION 14: Transport information

#### Department of Transportation (DOT) and Transportation of Dangerous Goods (TDG)

In accordance with DOT/TDG

Not regulated

### SECTION 15: Regulatory information

#### 15.1. Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

All components of this product are listed, or excluded from listing, on the Canadian DSL (Domestic Substances List) and NDSL (Non-Domestic Substances List) inventories.

#### 15.2. International regulations

No additional information available

#### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

# VistaClean Irrigant Solution Concentrate

## Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

### SECTION 16: Other information

Revision date : 09/11/2017  
Other information : None.  
Prepared by : Nexreg Compliance Inc.  
[www.Nexreg.com](http://www.Nexreg.com)



SDS HazCom 2012 - WHMIS 2015 (NexReg)

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