



How the best perform

VistaClean Irrigant Solution Concentrate

Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2024 and the Hazardous Products Regulations (HPR) WHMIS 2022
Issue date: 2026-08-06 Revision date: 2026-08-06 Version: 3.0

SECTION 1 Identification

1.1. Product identifier

Product form : Mixture
Product name : VistaClean Irrigant Solution Concentrate
Product code : Not available

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

Recommended use : Cleaner

1.4. Supplier's details

Manufacturer

Hu-Friedy Mfg. Co., LLC
2501 Sanders Rd.
Northbrook, IL 60062 USA
T 1-800-483-7433

1.5. Emergency phone number

Emergency number : 1-800-535-5053

SECTION 2 Hazard identification

2.1. Classification of the substance or mixture

GHS classification

Flammable liquids, Category 3
Skin irritation, Category 2
Skin sensitization, Category 1

2.2. Label elements

GHS labelling

Hazard pictograms (GHS) :



Signal word (GHS) :

Warning

Hazard statements (GHS) :

Flammable liquid and vapour

Causes skin irritation

May cause an allergic skin reaction

Precautionary statements (GHS) :

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Keep container tightly closed.

Ground/Bond container and receiving equipment.

Use explosion-proof equipment.

Use non-sparking tools.

Take action to prevent static discharges.

Avoid breathing dust, fume, gas, mist, spray, vapours.

Wash hands thoroughly after handling.

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Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves, protective clothing.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
Take off contaminated clothing and wash it before reuse.
If skin irritation or rash occurs: Get medical advice or attention.
In case of fire: Use Alcohol foam. Water spray. Dry chemical. Carbon dioxide (CO2) to extinguish.
Store in a well-ventilated place. Keep cool.
Dispose of hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulations.

2.3. Hazards associated with known or reasonably anticipated uses

No additional information available

2.4. Hazards not otherwise classified

No additional information available

2.5. Unknown acute toxicity

Not applicable

SECTION 3 Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Chemical name / Synonyms	Product identifier	Conc. (% w/w)
Grapefruit, extract	Grapefruit, extract Extract, grapefruit / Grapefruit, extractives and their physically modified derivatives obtained from Citrus paradisi M., Rutaceae / Grapefruit, extractives and their physically modified derivatives such as essential oils, oleoresins, etc. (Citrus paradisi Macf.) / Grapefruit seed extract / Grapefruit extract / CITRUS GRANDIS EXTRACT / Grapefruit oil, expressed (Citrus paradisi Macf.) / Citrus grandis (grapefruit) seed oil unsaponifiables / Grapefruit, extract (Extractives and their physically modified derivatives such as tinctures, concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free fractions, distillates, residues, etc., obtained from Citrus paradisi M., Rutaceae.) / Citrus grandis (grapefruit) fruit extract / Citrus paradisi (grapefruit) fruit extract / Citrus grandis (grapefruit) leaf extract / Citrus grandis (grapefruit) peel extract / Citrus grandis (grapefruit) seed extract / CITRUS GRANDIS FRUIT EXTRACT / CITRUS GRANDIS FRUIT WATER / CITRUS GRANDIS LEAF EXTRACT / CITRUS GRANDIS PEEL / CITRUS GRANDIS PEEL EXTRACT / CITRUS GRANDIS PEEL POWDER / CITRUS GRANDIS PEEL WATER / CITRUS GRANDIS SEED EXTRACT / CITRUS GRANDIS SEED OIL UNSAPONIFIABLES / CITRUS PARADISI SEED EXTRACT / CITRUS PARADISI SEED OIL / Grapefruit, (Citrus grandis) extract	CAS-No.: 90045-43-5	30 – 60

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Name	Chemical name / Synonyms	Product identifier	Conc. (% w/w)
Glycerin	Glycerin GLYCERIN / 1,2,3-Trihydroxypropane / Glycerol / Glycerine / Glycerin / Propane-1,2,3-triol	CAS-No.: 56-81-5	15 – 40

*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

SECTION 4 First-aid measures

4.1. Description of necessary 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 (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. 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/effects, 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 immediate medical attention and special treatment needed, if necessary

Other medical advice or treatment	: Symptoms may be delayed. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
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SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	: Alcohol foam. Water spray. Dry chemical. Carbon dioxide (CO ₂).
Unsuitable extinguishing media	: Do not use water jet.

5.2. Specific hazards arising from the chemical

Fire hazard	: Products of combustion may include, and are not limited to: oxides of carbon. Flammable liquid and vapour.
Explosion hazard	: May form flammable/explosive vapour-air mixture.

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting	: Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).
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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. Use special care to avoid static electric charges. Remove all sources of ignition.

For non-emergency personnel

No additional information available

For emergency responders

Environmental precautions : Prevent entry to sewers and public waters.

6.2. Methods and materials for containment and cleaning up

For containment : Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).

Methods for cleaning up : Sweep or shovel spills into appropriate container for disposal. Provide ventilation.

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. Take precautionary measures against static discharge. Use only non-sparking tools. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment.

Hygiene measures : Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Wash hands, forearms and face thoroughly after handling.

Additional hazards when processed : Handle empty containers with care because residual vapours are flammable.

7.2. Conditions for safe storage, including incompatibilities

Technical measures : Proper grounding procedures to avoid static electricity should be followed.

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

Specific end uses : Cleaner.

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

Glycerin (56-81-5)	
USA - OSHA - Occupational Exposure Limits	
Local name	Glycerin (mist)
OSHA PEL TWA	15 mg/m ³ (mist, total particulate) 5 mg/m ³ (mist, respirable fraction)

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Glycerin (56-81-5)

Regulatory reference (US-OSHA)

OSHA Annotated Table Z-1

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.
Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures, such as personal protective equipment

Hand protection:

Wear suitable gloves resistant to chemical penetration. Consult glove manufacturer's product information on material suitability and material thickness.

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.

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. 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
Flammability (solid, gas) : Flammable liquid and vapour.
Vapour pressure : No data available
Relative vapour density at 20°C/ 68 °F : 4.1
Relative density : 1.11
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
Explosive limits : No data available
Particle characteristics : No data available

Grapefruit, extract

Boiling point

160 °C Atm. press.: 1019 hPa

Flash point

54.8 °C

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Grapefruit, extract

Vapour pressure	195.4 Pa Temp.: 25 °C
Particle characteristics	No data available

Glycerin

Boiling point	290 °C Atm. press.: 760 mm Hg
Flash point	199 °C
Auto-ignition temperature	392.78 °C
Vapour pressure	0.0033 hPa (at 50 °C)
Particle characteristics	No data available

9.2. Data relevant with regard to physical hazard classes (supplemental)

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. May form flammable/explosive vapour-air mixture.

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. Sources of ignition. Direct sunlight.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

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

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.

Grapefruit, extract (90045-43-5)

LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 dermal rabbit	> 5000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)

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Glycerin (56-81-5)	
LD50 oral rat	12600 mg/kg (Source: NLM_CIP)
LD50 dermal rabbit	> 10 g/kg (Source: NLM_CIP)
LC50 inhalation rat	> 2.75 mg/l/4h

Skin corrosion/irritation	: Causes skin irritation. pH: 2 – 3 (10% solution)
Serious eye damage/irritation	: Not classified. 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.

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Viscosity, kinematic	No data available

Grapefruit, extract (90045-43-5)	
Viscosity, kinematic	No data available

Glycerin (56-81-5)	
Viscosity, kinematic	No data available
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.
Other information	: Likely routes of exposure: ingestion, inhalation, skin and eye.

SECTION 12 Ecological information

12.1. Ecotoxicity

Ecology - general	: May cause long-term adverse effects in the aquatic environment.
Hazardous to the aquatic environment, short-term (acute)	: Not classified.
Hazardous to the aquatic environment, long-term (chronic)	: Not classified.

Glycerin (56-81-5)	
LC50 - Fish [1]	54000 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)

12.2. Persistence and degradability

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Persistence and degradability	Not established.

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Grapefruit, extract (90045-43-5)	
Persistence and degradability	Rapidly degradable

Glycerin (56-81-5)	
Persistence and degradability	Not rapidly degradable

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	-1.75 (at 25 °C (at pH 7.4)

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Ozone	: Not classified.
Fluorinated greenhouse gases	: No
Other information	: No other effects known.

SECTION 13 Disposal considerations

Product/Packaging disposal recommendations	: Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. The generation of waste should be avoided or minimised wherever possible.
Additional information	: Handle empty containers with care because residual vapours are flammable.

SECTION 14 Transport information

In accordance with DOT / TDG

14.1. UN Number

UN-No. (DOT)	: Not Determined
UN-No. (TDG)	: Not Determined

14.2. UN Proper Shipping Name

Proper Shipping Name (DOT)	: Not Determined
Proper Shipping Name (TDG)	: Not Determined

14.3. Transport hazard class(es)

DOT	
Transport hazard class(es) (DOT)	: Not Determined

TDG	
Transport hazard class(es) (TDG)	: Not Determined

14.4. Packing group

Packing group (DOT)	: Not Determined
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Packing group (TDG) : Not Determined

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Transport in bulk

Not applicable

14.7. Special precautions for user

DOT

Not Determined

TDG

Not Determined

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. 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

SECTION 16 Other Information

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2024 and the Hazardous Products Regulations (HPR) WHMIS 2022

Revision date : 2026-08-06
Issue date : 2026-08-06
Other information : None.
Prepared by : Nexreg Compliance Inc.
www.Nexreg.com



Indication of changes:

SDS update . GHS classification.

SDS HazCom 2024 - WHMIS 2022 (Nexreg) 2025

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