# 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: 12/06/2019 Revision date: 12/06/2019 Version: 1.0

## **SECTION 1: Identification**

#### 1.1. Identification

Product form : Mixture Product name : Microvac

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

Use of the substance/mixture : Enzymatic and Ultrasonic Cleaning Solution

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

#### Manufacturer

Germiphene Corperation 1379 Colborne Street East Brantford, N3T 5M1 - Canada T 519-759-7100 - F 519-759-1625

#### **Emergency telephone number**

Emergency number : CANUTEC 613-996-6666 (Transport only)

## **SECTION 2: Hazard identification**

## Classification of the substance or mixture

#### **GHS** classification

Resp. Sens. 1

#### 2.2. Label elements

#### **GHS** labelling

Hazard pictograms (GHS)



GHS08

Signal word (GHS) : Danger

Hazard statements (GHS) : May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Avoid breathing dust/fume/gas/mist/vapours/spray. Wear respiratory protection. If inhaled: If Precautionary statements (GHS)

breathing is difficult, remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a poison center/doctor. 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

#### **Unknown acute toxicity** 2.4.

Not applicable

# **SECTION 3: Composition/information on ingredients**

#### **Substances** 3.1.

Not applicable

#### **Mixtures** 3.2.

| Name  | Product identifier   | %         |
|---|----------------------|-----------|
| Poly(oxy-1,2-ethanediyl), .alpha[4-(1,1,3,3-tetramethylbutyl)phenyl]omegahydroxy- | (CAS-No.) 9002-93-1  | 1 - 5     |
| Polyethylene glycol branched nonylphenyl ether                                    | (CAS-No.) 68412-54-4 | 1 - 5     |
| Ethyl alcohol   | (CAS-No.) 64-17-5    | 0.5 – 1.5 |
| Subtilisins (proteolytic enzymes)   | (CAS-No.) 9014-01-1  | 0.1 - 1   |

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

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#### **SECTION 4: First-aid measures**

#### 4.1. Description of first aid measures

First-aid measures after inhalation : IF INHALED: Remove person to fresh air and keep comfortable for breathing. If experiencing

respiratory symptoms: Call a POISON CENTER/doctor.

First-aid measures after skin contact : If skin irritation occurs: Wash skin with plenty of water. Obtain medical attention if irritation

persists.

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. 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. May cause allergy or asthma symptoms or

breathing difficulties if inhaled.

Symptoms/effects after skin contact : May cause skin irritation. Repeated exposure may cause skin dryness or cracking.

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: Fire-fighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.

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.

#### 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.

#### 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"

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#### **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. Use only outdoors or in a well-ventilated area. Ethylene Oxide is subject to the standard 29 CFR 1910.1047, which may contain specific requirements for handling including protective equipment, regulated areas, monitoring and medical surveillance. The employer should review the standard and assure compliance with applicable requirements.

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 well-ventilated place.

## SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

#### Poly(oxy-1,2-ethanediyl), .alpha.-[4-(1,1,3,3-tetramethylbutyl)phenyl]-.omega.-hydroxy- (9002-93-1)

Not applicable

### Polyethylene glycol branched nonylphenyl ether (68412-54-4)

Not applicable

| Ethyl alcohol (64-17-5) |                         |                    |
|-------------------------|-------------------------|--------------------|
| ACGIH                   | ACGIH STEL (ppm)        | 1000 ppm           |
| OSHA                    | OSHA PEL (TWA) (mg/m³)  | 1900 mg/m³         |
| OSHA                    | OSHA PEL (TWA) (ppm)    | 1000 ppm           |
| IDLH                    | US IDLH (ppm)           | 3300 ppm (10% LEL) |
| NIOSH                   | NIOSH REL (TWA) (mg/m³) | 1900 mg/m³         |
| NIOSH                   | NIOSH REL (TWA) (ppm)   | 1000 ppm           |

| Subtilisins (proteolytic enzymes) (9014-01-1) |                          |                             |
|---|--------------------------|-----------------------------|
| ACGIH   | ACGIH Ceiling (mg/m³)    | 0.00006 mg/m³ (Subtilisins) |
| NIOSH   | NIOSH REL (STEL) (mg/m³) | 0.00006 mg/m³ (Subtilisins) |

## 8.2. Exposure controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Hand protection : Wear suitable gloves.

Eye protection : Safety glasses or goggles are recommended when using product.

Skin and body protection : Wear suitable protective clothing.

Respiratory protection : Wear respiratory protection. 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 : Opaque. May have a thin layer of oil on surface.

Colour : White

Odour : No data available
Odour threshold : No data available

pH : 7.5 - 9.5

Melting point : No data available
Freezing point : No data available
Boiling point : No data available

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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 : No data available
Relative density : No data available

Density :  $0.905 - 1.105 \text{ g/ml} @ 25 ^{\circ}\text{C} \pm 1 (77 ^{\circ}\text{F} \pm 1.8)$ 

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

9.2. Other information

Refractive index :  $1.336 - 1.346 @ 25 °C \pm 1 (77 °F \pm 1.8)$ 

### **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.

## 10.5. Incompatible materials

Strong acids. Strong bases. 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.

| Poly(oxy-1,2-ethanediyl), .alpha[4-(1,1,3,3-tetramethylbutyl)phenyl]omegahydroxy- (9002-93-1) |                  |  |
|---|------------------|--|
| LD50 oral rat   | 1800 mg/kg       |  |
| Subtilisins (proteolytic enzymes) (9014-01-1)   |                  |  |
| LD50 oral rat   | 3700 mg/kg       |  |
| Skin corrosion/irritation   | · Not classified |  |

pH: 7.5 - 9.5
Serious eye damage/irritation : Not classified.
pH: 7.5 - 9.5

Respiratory or skin sensitisation : May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Germ cell mutagenicity : Not classified.

Carcinogenicity : Not classified.

| Ethyl alcohol (64-17-5) |                            |
|-------------------------|----------------------------|
| IARC group              | 1 - Carcinogenic to humans |

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Reproductive toxicity : Not classified. STOT-single exposure : Not classified.

| Subtilisins (proteolytic enzymes) (9014-01-1) |   |  |
|---|---|--|
| STOT-single exposure                          | May cause respiratory irritation.   |  |
| STOT-repeated exposure                        | : Not classified.   |  |
| Aspiration hazard                             | : Not classified.   |  |
| Symptoms/effects after inhalation             | : May cause allergy or asthma symptoms or breathing difficulties if inhaled.  |  |
| Symptoms/effects after skin contact           | : May cause skin irritation. Repeated exposure may cause skin dryness or cracking.  |  |
| 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.

| Ethyl alcohol (64-17-5)                       |  |  |
|---|--|--|
| LC50 fish 1                                   | 12.0 - 16.0 ml/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static]) |  |
| EC50 Daphnia 1                                | 9268 - 14221 mg/l (Exposure time: 48 h - Species: Daphnia magna)               |  |
| LC50 fish 2                                   | > 100 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])       |  |
| EC50 Daphnia 2                                | 2 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])                 |  |
| Subtilisins (proteolytic enzymes) (9014-01-1) |  |  |
| LC50 fish 1                                   | 200 mg/l   |  |

## 12.2. Persistence and degradability

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

## 12.3. Bioaccumulative potential

| Microvac                              |                  |
|---------------------------------------|------------------|
| Bioaccumulative potential             | Not established. |
| Ethyl alcohol (64-17-5)               |                  |
| Partition coefficient n-octanol/water | -0.32            |

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

Other information : No other effects known.

## **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

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.

## **SECTION 14: Transport information**

## **Department of Transportation (DOT)**

In accordance with DOT/TDG

UN-No.(DOT/TDG) : UN3082

Proper Shipping Name (DOT/TDG) : Environmentally hazardous substances, liquid, n.o.s.

Class (DOT/TDG) : Class 9 - Miscellaneous hazardous material 49 CFR 173.140

Packing group (DOT/TDG) : III

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Hazard labels (DOT/TDG)



## **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 except for:

Calcium chloride CAS-No. 10035-04-8

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 except for:

| Subtilisins (proteolytic enzymes) | CAS-No. 9014-01-1  |
|-----------------------------------|--------------------|
| Calcium chloride                  | CAS-No. 10035-04-8 |

#### 15.2. International regulations

No additional information available

#### 15.3. US State regulations

MARNING:

This product can expose you to Ethylene oxide, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

## **SECTION 16: Other information**

Revision date : 12/06/2019
Other information : None.

Prepared by : Nexreg Compliance Inc.

www.Nexreg.com



SDS HazCom 2012 - WHMIS 2015 (NexReg)

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