

# Genie Plus

## Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

Issue date: 06-30-2020

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Version: 1.0

### SECTION 1: Identification

#### 1.1. Product identifier

Product form : Mixture  
Product name : Genie Plus

#### 1.2. Recommended use and restrictions on use

Recommended use : Disinfectant

#### 1.3. Supplier

##### Manufacturer

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

#### 1.4. Emergency telephone number

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

### SECTION 2: Hazard identification

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

##### Classification (GHS CA)

Flam. Liq. 3 H226  
Eye Dam. 1 H318

#### 2.2. GHS Label elements, including precautionary statements

##### GHS-CA labelling

Hazard pictograms (GHS-CA) :



Signal word (GHS CA) : Danger

Hazard statements (GHS-CA) : H318 - Causes serious eye damage.

Precautionary statements (GHS-CA) : P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 - Immediately call a POISON CENTER or doctor.

#### 2.3. Other hazards

No additional information available

#### 2.4. Unknown acute toxicity (GHS CA)

Not applicable

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%
Ethyl (S)-2-hydroxypropionate	(CAS-No.) 687-47-8	1 – 5
Citric acid	(CAS-No.) 77-92-9	0.5 – 1.5
Alcohols, C12-14, ethoxylated propoxylated	(CAS-No.) 68439-51-0	0.1 – 1

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

### 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 (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. Get medical attention if irritation develops and persists.

# Genie Plus

## Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

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|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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. Immediately call a POISON CENTER/doctor. |
| 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 (acute and delayed)

- |                                     |                                                                                                                                                                                  |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Symptoms/effects after inhalation   | : May cause irritation to the respiratory tract.                                                                                                                                 |
| Symptoms/effects after skin contact | : May cause skin irritation. Repeated exposure may cause skin dryness or cracking.                                                                                               |
| Symptoms/effects after eye contact  | : Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. May cause burns. |
| Symptoms/effects after ingestion    | : May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.                                                                             |

### 4.3. Immediate medical attention and special treatment, 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). |
|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|

## SECTION 5: Fire-fighting measures

### 5.1. Suitable extinguishing media

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

### 5.2. Unsuitable extinguishing media

- |                                |               |
|--------------------------------|---------------|
| Unsuitable extinguishing media | : None known. |
|--------------------------------|---------------|

### 5.3. Specific hazards arising from the hazardous product

- |             |                                                                                 |
|-------------|---------------------------------------------------------------------------------|
| Fire hazard | : Products of combustion may include, and are not limited to: oxides of carbon. |
|-------------|---------------------------------------------------------------------------------|

### 5.4. 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). |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------|

## 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. |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------|

### 6.2. Methods and materials 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. Stop leak if safe to do so. |
| Methods for cleaning up | : Sweep or shovel spills into appropriate container for disposal. Provide ventilation.                                                                                                                                                                              |

### 6.3. 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. Wear personal protective equipment. |
| Hygiene measures              | : Take off immediately all contaminated clothing and wash it before reuse. Wash hands, forearms and face thoroughly after handling.                                                                                   |

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

- |                    |                                                                                                                                                                                |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Technical measures | : Proper grounding procedures to avoid static electricity should be followed. Use only non-sparking tools. Use explosion-proof electrical, ventilating and lighting equipment. |
| Storage conditions | : Keep out of the reach of children. Keep container tightly closed and in a well-ventilated place.                                                                             |

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

### 8.2. Appropriate engineering controls

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

# Genie Plus

## Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

### 8.3. Individual protection measures/Personal protective equipment

#### Hand protection:

Wear suitable gloves

#### Eye protection:

Wear eye/face protection

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

Physical state	: Liquid
Appearance	: No data available
Colour	: No data available
Odour	: No data available
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Relative evaporation rate (ether=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not flammable
Vapour pressure	: No data available
Vapour pressure at 50 °C	: No data available
Relative density	: No data available
Solubility	: No data available
Partition coefficient n-octanol/water	: No data available
Viscosity, kinematic	: No data available
Explosive limits	: No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reactivity	: No dangerous reactions known under normal conditions of use.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No dangerous reactions known under normal conditions of use.
Conditions to avoid	: Heat. Incompatible materials.
Incompatible materials	: Strong oxidizing agents
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.

# Genie Plus

## Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

Citric acid (77-92-9)	
LD50 oral rat	3 g/kg
LD50 dermal rat	> 2000 mg/kg

Ethyl (S)-2-hydroxypropionate (687-47-8)	
LD50 oral rat	> 2000 mg/kg
LC50 inhalation rat	> 5.4 mg/l/4h

Alcohols, C12-14, ethoxylated propoxylated (68439-51-0)	
LD50 oral rat	3530 mg/kg

Skin corrosion/irritation	: Not classified.
Serious eye damage/irritation	: Causes serious eye damage.
Respiratory or skin sensitization	: Not classified.
Germ cell mutagenicity	: Not classified.
Carcinogenicity	: Not classified.
Reproductive toxicity	: Not classified.
STOT-single exposure	: Not classified.

Ethyl (S)-2-hydroxypropionate (687-47-8)	
STOT-single exposure	May cause respiratory irritation.

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	: May cause skin irritation. Repeated exposure may cause skin dryness or cracking.
Symptoms/effects after eye contact	: Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. May cause burns.
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.

Citric acid (77-92-9)	
LC50 fish 1	1516 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus)

Ethyl (S)-2-hydroxypropionate (687-47-8)	
LC50 fish 1	320 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [semi-static])
EC50 Daphnia 1	683 mg/l (Exposure time: 48 h - Species: Daphnia magna)

### 12.2. Persistence and degradability

Genie Plus	
Persistence and degradability	Not established.

### 12.3. Bioaccumulative potential

Genie Plus	
Bioaccumulative potential	Not established.

Citric acid (77-92-9)	
Partition coefficient n-octanol/water	-1.72 (at 20 °C)

Ethyl (S)-2-hydroxypropionate (687-47-8)	
BCF fish 1	(hydrolysis)
Partition coefficient n-octanol/water	0.06

### 12.4. Mobility in soil

Citric acid (77-92-9)	
Partition coefficient n-octanol/water	-1.72 (at 20 °C)

Ethyl (S)-2-hydroxypropionate (687-47-8)	
Partition coefficient n-octanol/water	0.06

### 12.5. Other adverse effects

Ozone	: Not classified.
Other information	: No other effects known.

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### SECTION 13: Disposal considerations

#### 13.1. Disposal 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.
- Additional information : Handle empty containers with care because residual vapours are flammable.

### SECTION 14: Transport information

#### 14.1. Basic shipping description

In accordance with TDG

#### Transportation of Dangerous Goods

Not regulated for transport

#### 14.2. Transport information/DOT

No additional information available

#### 14.3. Air and sea transport

No additional information available

### SECTION 15: Regulatory information

#### 15.1. National regulations

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

### SECTION 16: Other information

- Issue date : 06-30-2020
- Revision date : 06-30-2020
- Other information : None.
- Prepared by : Nexreg Compliance Inc.  
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