## 1. IDENTIFICATION OF SUBSTANCE / MIXTURE AND OF SUPPLIER

**Product Identifier:** Green Treat Trigger
**Product Form:** Liquid
**Other means of identification:** Item No. 60102
**Product Use:** pH adjustment for Green Treat System

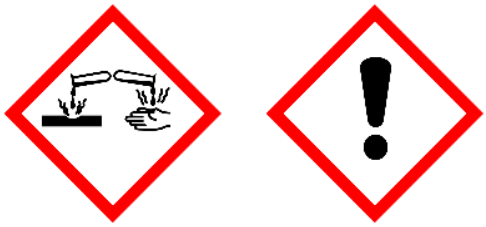
**Supplier Details:**
maxill inc.
80 Elm St.
St. Thomas, ON
Canada, N5R 6C8

**Emergency Contact:** maxill inc. 519-631-7370, CANUTEC: 613.996.6666, ChemTel: 1-800-255-3924

## 2. HAZARDS IDENTIFICATION

**GHS Classification for Mixture:**
Acute toxicity (oral) (Category 4)
Skin corrosion/irritation (Category 1B)
Serious eye damage/eye irritation (Category 1)

**GHS Label Elements:**



**Signal Word:** DANGER
**Hazard Statements:**
Harmful if swallowed
Causes severe skin burns and eye damage
**Precautionary Statements:**
Do not breathe mist, vapors, spray
Wash exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Wear protective gloves, protective clothing, eye protection, face protection
**Response:**
IF SWALLOWED: rinse mouth. Do NOT induce vomiting
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
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 or doctor/physician
Wash contaminated clothing before reuse
**Storage:** Store locked up
**Disposal:** Dispose of contents/container to comply with local, state and federal regulations
**Hazards Not Otherwise Classified:** If inhaled: Remove person to fresh air and keep comfortable for breathing

## 3. COMPOSITION AND INFORMATION ON INGREDIENTS

**Mixture**

| Name | Product Identifier | % (w/w) |
|---|---|---|
| Purified Water | (CAS) 7732-18-5 | 60 - 85 |
| Potassium Hydroxide | (CAS) 1310-58-3 | 15 - 40 |

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

**There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.**

**Occupational exposure limits, if available, are listed in Section 8.**

## 4. FIRST AID MEASURES

**Description of First Aid Measures**

**Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician.

**Skin Contact**: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a poison center or doctor/physician.

**Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.

**Ingestion:** Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell. Immediately call a poison center or doctor/physician.

**Most important symptoms/effects, acute and delayed**

**Eyes:** Causes serious eye damage.

**Skin:** Burns

**Ingestion:** Swallowing a small quantity of this material will result in serious health hazard. Burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

**Inhalation:** May cause irritation to the respiratory tract, sneezing, coughing, burning sensation of throat with constricting sensation of the larynx and difficulty in breathing.

**Indication of Any Immediate Medical Attention and Special Treatment Needed**

**Notes to physician:** Gastric lavage is not recommended.

See toxicological information (Section 11)

## 5. FIRE FIGHTING MEASURES

**Extinguishing Media**

**Suitable Extinguishing Media:** Foam. Dry powder. Carbon dioxide. Water spray. Sand.

**Special Hazards Arising from the Substance or Mixture**

Thermal decomposition generates corrosive vapors.

**Special protective equipment for fire-fighters:**

Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment. Do not enter fire area without proper protective equipment, including respiratory protection

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions, Protective Equipment and Emergency Procedures**

Safety glasses. Protective clothing. Gloves. Face-shield

**Environmental precautions:** Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

**Methods and materials for containment and cleaning up**

Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

## 7. HANDLING AND STORAGE

**Precautions for Safe Handling**

**General Procedures:** Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Do not breathe mist, vapors, spray.

**Storage:** Keep only in the original container in a cool, well ventilated place away from : incompatible materials. Keep container closed when not in use.

**Incompatible Products/Materials:** Strong acids. Sources of ignition. Direct sunlight

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure Controls**

There is no exposure data pertaining to the Product. This section reflects exposure data pertaining to individual ingredients.

**Occupational exposure limits**

| Ingredient name | Value Type (form of exposure) | Control Parameters/ Permissible concentration | Basis |
|---|---|---|---|
| Potassium hydroxide | TLV (Ceiling) | 2 mg/m$^3$ | ACGIH |
| | REL (Ceiling) | 2 ppm | NIOSH |

**Appropriate engineering controls**

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure exposure is below occupational exposure limits (where available).

**Respiratory protection:** In the event of mist formation: aerosol mask.
**Eye protection:** Chemical goggles or face shield.

**Skin and body protection:** Wear suitable protective clothing.
**Hand protection:** Wear protective gloves.
**Hygiene measures:** Do not eat, drink or smoke during use.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|---|
| **Appearance *(physical state)*** | Liquid. |
| **Colour** | Clear, colourless |
| **Odor** | Odourless |
| **Initial boiling point** | 120°C |
| **Freezing point** | -25°C |
| **Flash point** | Not available |
| **Upper / Lower flammability or explosive limits** | Not flammable |
| **Vapor pressure** | 2 mmHg |
| **Vapor density** | Not available |
| **Specific gravity** | 1.34 |
| **Partition coefficient: n-octanol/water** | Not available |
| **Auto-ignition temperature** | Not available |
| **Solubility(ies)** | Soluble |
| **pH** | > 13.0 |

## 10. STABILITY AND REACTIVITY

**Reactivity:** Thermal decomposition generates corrosive vapors

**Chemical Stability:** Absorbs atmospheric $CO_2$

**Conditions to Avoid:** Direct sunlight. Extremely high or low temperatures.

**Incompatible Materials:** Strong acids.

**Hazardous Decomposition Products:** Potassium oxide. Thermal decomposition generates corrosive vapors.

## 11. TOXICOLOGICAL INFORMATION

**Information on Toxicological Effects – Product and Components**

**Acute Toxicity:**

| Ingredient name | $LD_{50}$ Oral | Species | ATE US (oral) |
|---|---|---|---|
| Potassium hydroxide 30% w/v | 1083 mg/kg | Rat | 1083 mg/kg |
| Potassium hydroxide (CAS 1310-58-3) | 333 mg/kg | Rat | 333 mg/kg |

**Information on toxicological Effects**

**Likely routes of exposure:** Skin and eye contact

**Acute toxicity:** Oral: Harmful if swallowed

**Irritation/Corrosion Information for Component**

**Skin corrosion/irritation** Remarks: Irritating to skin.

**Serious eye damage/eye irritation:** Remarks: Irritating to eyes.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

| | |
|---|---|
| **Sensitization** | No information available. |
| **Mutagenic Effects** | No information available. |
| **Carcinogenicity** | |
| **Reproductive Toxicity** | No information available. |
| **STOT - single exposure** | No information available. |
| **STOT - repeated exposure** | No information available. |
| **Chronic Toxicity** | No known effect based on information supplied. |
| **Aspiration Hazard** | No information available. |

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity information for product and components:**

| Ingredient name | $LC_{50}$ Fish | Species |
|---|---|---|
| Potassium hydroxide 30% w/v | 318 mg/L | |
| Potassium hydroxide (CAS 1310-58-3) | 80 mg/L (96 h) | *Gambusia affinis* |

**Persistence and degradability:** No available data
**Bio-accumulative potential:** No available data
**Mobility in soil:** No available data
**Other adverse effects:** No available data

## 13. DISPOSAL CONSIDERATIONS

**Disposal methods:** Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to comply with local, state and federal regulations.

## 14. TRANSPORT INFORMATION

**POTASSIUM HYDROXIDE, SOLUTION**

| | DOT Classification | TDG Classification | IMDG | IATA |
|---|---|---|---|---|
| **UN number** | UN1814 | UN1814 | UN1814 | UN1814 |
| **Environmental hazards** | Class 8<br>Packing group II | Class 8<br>Packing group II | Class 8<br>Packing group II | Class 8<br>Packing group II |

**Special precautions for user:** none

## 15. REGULATORY INFORMATION

**Safety, Health and Environmental Regulations for Product**

**US Federal Regulations**

**SARA 311/312 Hazard Categories**

| | |
|---|---|
| Immediate (Acute) Health Hazard | Yes |
| Chronic Health Hazard | No |
| Fire Hazard | No |
| Sudden release of pressure hazard | No |
| Reactive Hazard | No |

## 16. OTHER INFORMATION: INCLUDING INFORMATION ON PREPARATION AND REVISION OF THE SDS

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