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

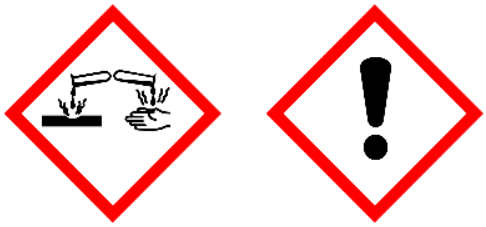
Supplier Details:
maxill inc.
80 Elm St.
St. Thomas, ON
Canada, N5R 6C8

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 Packing group II	Class 8 Packing group II	Class 8 Packing group II	Class 8 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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