

MATERIAL SAFETY DATA SHEET



1. Product Information

Product: Green Treat Trigger
Product Use: pH adjustment for Green Treat System
Supplier: maxill inc.

Product Code: 60705 60102 – 30 mL

80 Elm Street, St. Thomas, ON
Canada N5R 6C8

Contacts: Head Office: (519) 631-7370 Fax: (519) 631-3388 Emergency 24 hour CANUTEC: (613) 996-6666

WHMIS Classification: CLASS E



2. Preparation Information

Date Prepared: 30 January 2008

Supersedes: 10 November 2006

Revision: 4

Prepared by: Operations Department

Glossary of Terms: NAV – Not Available

NAP – Not Applicable

DG – Dangerous Goods

3. Hazardous Ingredients

<u>Ingredient</u>	<u>CAS</u>	<u>% Range</u>	<u>LD50 Oral</u> mg/kg Species	<u>LD50 Dermal</u> mg/kg Species	<u>LC50 Inhalation</u> mg/L Species
Sodium Hydroxide	1310-73-2	10 - 30	500 Rat	NAV NAV	NAV NAV

4. Physical Data

Physical State: Liquid

Boiling Point: 142°C

Appearance: Water white, turbid

Odour: Odourless

Specific Gravity: 1.26

Freezing Point: -25°C

Evaporation Rate: NAV (BuAc = 1)

Odour Threshold: NAV

Vapour Density: NAV (air = 1)

Vapour Pressure: 1 mm Hg

pH: > 13.0

Coeff. of H₂O / Oil Distribution: NAV

5. Fire and Explosion Data

WHMIS CLASS B? No

Upper Explosion Limit: NAP

Lower Explosion Limit: NAP

Extinguishment Media: Product is not combustible. Use dry chemical, foam (neither CO₂ nor water) for a surrounding fire.

Conditions to Avoid: Contact with heat will make a molten material and water may react violently with product.

Hazardous Combustion Products: NAV

Flash Point: None

Auto Ignition Temperature: NAV

Sensitivity to Static Charge: No

Sensitivity to Impact: No

6. Toxicological Properties

Route of Entry: Ingestion, Skin and Eye

Effects of Acute Exposure:

Eyes: Causes severe eye irritation. Will damage tissue. Solutions are extremely corrosive. May cause permanent eye damage.

Inhalation: Corrosive to respiratory passages. Inhalation of dusts or mists can cause damage to the upper respiratory tract and to the lung tissue depending on the severity of exposure. Effects can range mild irritation of mucous membranes, severe pneumonitis and destruction of lung tissue.

Ingestion: Causes burns to the mouth, throat and stomach. Ingestion may cause gastrointestinal irritation or ulceration. May cause pain, nausea, vomiting and diarrhea. Aspiration into the lungs may occur during ingestion of vomiting, resulting in lung injury.

Skin: Causes severe burns. Corrosive action causes burns and frequently causes deep ulcerations with subsequent scarring. Prolonged contact destroys tissue.

LD50 Oral: 1000 mg/kg (Rat)

LD50 Dermal: NAV

LC50 Inhalation: NAV

Irritancy of Product: Eye, skin and gastrointestinal irritant

Exposure Limit: NAV

Carcinogenicity: No

Sensitization to Product: NAV

Teratogenicity: NAV

Reproductive Toxicity: NAV

Mutagenicity: NAV

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6. Toxicological Properties (continued)

Effects of Chronic Exposure: Prolonged and repeated exposure to skin will cause chemical burns. Repeated or prolonged contact will cause tissue damage.

Synergistic Materials: No

7. First Aid Measures

Eye Contact: Rinse immediately with cool water, remove contact lenses if any, and continue rinsing with water for at least 15 minutes while holding eyelids open. Get immediate medical attention.

Ingestion: Do not induce vomiting. Get immediate medical attention. Do not give anything by mouth if person is unconscious or convulsing.

Inhalation: Remove victim to fresh air. If breathing is difficult or if symptoms persist, consult a physician.

Skin Contact: Remove contaminated clothing and shoes. Wash well the skin with copious amounts of water. Wash the face first before removing chemical splash goggles. Even if mild irritation develops, consult a physician. Wash clothing before wearing again.

8. Preventive Measures

Engineering Controls: General ventilation.

Handling Procedures: Avoid ingestion, eye and skin contact.

Storage Requirements: Store in original container in a dry place at a cool or controlled room temperature, away from incompatible materials. Keep container closed when not in use.

Leak and Spill Procedure: For small spills, dilute spill with large amounts of water and neutralize with dilute acid. Collect with absorbent material such as paper, vermiculite or floor absorbent. Dispose of product in accordance with applicable regulations.

Waste disposal: Dispose of product in accordance with applicable federal, provincial and municipal regulations.

Protective Equipment for Bulk Handling of Sealed Containers:

Respiratory: Not required under normal conditions of handling.

Eyewear: Safety goggles are recommended.

Gloves: Impermeable gloves (rubber, synthetic) are recommended.

Footwear: Not required under normal conditions of handling.

Other: Eye wash fountains are recommended.

Protective Equipment for End-Users:

Respiratory: Not required under normal conditions of use.

Eyewear: Safety goggles.

Gloves: Impermeable gloves (rubber, synthetic).

Footwear: Not required under normal conditions of handling.

Other: Eye wash fountains are recommended.

9. Reactivity Data

Conditions of Instability: Stable

Incompatible Materials: Avoid contact with organic materials and concentrated acids may cause violent reactions. Contact with magnesium, aluminum, galvanized zinc, tin, chromium, brass and bronze generates explosive hydrogen gas.

Reactions with various food sugars may form carbon monoxide. Heat is generated when mixed with water. Spattering and boiling can occur.

Conditions of Reactivity: Open containers will allow absorption of carbon dioxide and moisture from the air.

Hazardous Decomposition Products: Carbon monoxide.

10. Special Shipping Information

<u>DG</u>	<u>Proper Shipping Name</u>	<u>TDG Hazard Class</u>	<u>UN Number</u>	<u>Packing Group</u>
Yes*	SODIUM HYDROXIDE SOLUTION	8	1824	II

* Where the product-contact container does not exceed containing 1 litre of product, a *Limited Quantity Exemption* applies.

