

## SAFETY DATA SHEET

### *Tramline*

Date of Issue: 03/31/2019 (m/j/a)

#### SECTION 1: IDENTIFICATION

**Product name:** Tramline

Norac Concepts Inc.  
P.O. Box 31097  
Guelph, ON, N1H 8K1

**Product use:** Agricultural foam marker.

**Restriction of use:** None known.

**Additional Product Information:** 519-821-3633

**In Case of Emergency, Call: 613-787-5620 All hours**

#### SECTION 2: HAZARDS IDENTIFICATION

**GHS Classification:**

Causes skin irritation  
Eye irritation

Category 2  
Category 2A

**GHS Label Elements:**



**Signal Word:**

WARNING

**GHS Hazard Statements:**

H314 Causes skin irritation  
H319 Causes serious eye irritation

**GHS Precautionary Statements:**

**Prevention**

P102 Keep out of reach of children  
P103 Read label before using  
P264 Wash hands thoroughly after handling  
P280 Wear protective gloves, eye protection and face protection

**Response**

P362+P364 Take off contaminated clothing and wash it before reuse.  
P303+P352 IF ON SKIN: Wash with plenty of water.  
P332+P313 If skin irritation occurs, Get medical advice or attention.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.  
Remove contact lenses, if present and easy to do. Continue rinsing.

**Storage**

No storage statements

**Disposal**

No disposal statements

**Physical Hazards Not Otherwise Classified:**

None known

**Health Hazards Not Otherwise Classified:**

None known

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	% (w/w)
Ethylene glycol butyl ether	111-76-2	10 – 30 %
Hexylene ether	107-41-5	3 - 7 %

**Common Name:** None

**Synonyms:** None

### SECTION 4: FIRST-AID MEASURES

**Inhalation:** Move person to fresh air. Call a Poison Control Center or Doctor for further advice.

**Skin contact:** Remove contaminated clothing immediately. Rinse skin with plenty of water for minimum of 20 minutes. Seek medical attention if irritation persists.

**Eye contact:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing. Seek medical attention if irritation persists.

**Ingestion:** Call a Poison Control Center or Doctor immediately for treatment advice. Do not induce vomiting unless directed to do so by a Poison Control Center or Doctor. Do not give anything by mouth to an unconscious person.

**Most Important Symptoms and Effects, Acute and Delayed:**

**If inhaled:** Mists may cause respiratory irritation.

**If on skin or in eyes:** May cause skin and eye irritation

**If swallowed:** May cause mouth, throat and gastrointestinal irritation.

**Indication of any immediate medical attention and special treatment needed:** There is no specific antidote, treat symptomatically.

### SECTION 5: FIRE-FIGHTING MEASURES

**Suitable Extinguishing media:** For large fires, apply aqueous film forming foam or water in the form of a fog. For small fires, use carbon dioxide or dry chemical.

**Unsuitable Extinguishing media:** None known

**Specific Hazards arising from the substance or mixture:** Contain fire-fighting water for disposal if contaminated with product.

**Special Protective Equipment and Precautions for Fire-fighters:** Wear self-contained breathing apparatus and impervious clothing. Minimize the amount of water used and contain the run-off from entering water supplies or the environment by dyking.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

**Personal Precautions, Protective Equipment and Emergency Procedures:** Wear personal protective equipment as described in Section 8.

**Environmental Precautions:** Do not allow product to enter sewers, ground water or any water course. Inform applicable government authority if release is reportable or could adversely affect the environment.

**Methods and Materials for Containment and Cleaning Up:** Wash hard surfaces with heavy duty detergent and water. Absorb spilled material and washings with suitable liquid binding material and place in suitable containers for disposal. Dispose of contaminated material as waste according to Section 13.

## SECTION 7: HANDLING AND STORAGE

**Precaution for Safe Handling:** Avoid contact with eyes, skin and clothing. Wear appropriate personal protective equipment. Wash thoroughly after use. If clothing becomes contaminated, wash thoroughly before re-use.

**Conditions for Safe Storage:** Store in a cool, well-ventilated area. Keep away from food, drink, feedstuffs and fertilizer. Keep out of reach of children and pets.

**Storage temperature:** Do not allow product to freeze

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### Ingredients with Workplace Control Parameters:

Ingredients	CAS Number	Value/Form of Exposure	Permissible Concentration
Ethylene glycol butyl ether	111-76-2	TWA	97 mg/m <sup>3</sup>
Hexylene ether	107-41-5	TWA	121 mg/m <sup>3</sup>
		TLV	25 ppm

**Appropriate Engineering Controls:** Provide local exhaust and/or adequate ventilation.

### Individual Protection Measures:

**Eye protection:** Use chemical safety goggles if there is a potential for eye contact.

**Skin protection:** Chemical-resistant gloves and protective clothing that is impervious under conditions of use.

**Respiratory protection:** If misting conditions exist, use NIOSH/MSDS approved respirator

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Clear yellow liquid
<b>Odour:</b>	Mild glycol odour
<b>Odour Threshold:</b>	Not determined
<b>pH:</b>	7 to 8 at 20°C (5.0 w/w)
<b>Melting point/Freezing Point:</b>	Not determined
<b>Initial Boiling Point/Range:</b>	Not determined
<b>Flash Point:</b>	> 93.3 °C PMCC
<b>Evaporation rate (ether=1):</b>	Not determined
<b>Flammability (Solid or gas):</b>	Not applicable
<b>Lower flammability or explosive limit:</b>	Not determined
<b>Upper flammability or explosive limit:</b>	Not determined
<b>Vapour pressure (mm Hg at 20°C):</b>	No data
<b>Vapour density (air=1):</b>	No data
<b>Specific gravity:</b>	1.02 at 20 °C
<b>Solubility (water):</b>	Miscible in water
<b>Solubility (other):</b>	No data
<b>Partition coefficient (n-octanol/water):</b>	No data
<b>Auto-ignition temperature:</b>	No data
<b>Decomposition temperature:</b>	No data
<b>Viscosity:</b>	Not Determined

## SECTION 10: STABILITY AND REACTIVITY

**Reactivity:** Not reactive. Not sensitive to mechanical impact.

**Chemical stability:** Stable under normal conditions.

**Possibility of hazardous reactions:** None expected.

**Conditions to avoid:** High temperatures.  
**Incompatible materials:** Strong oxidizing agents and acids.  
**Hazardous decomposition products:** Thermal decomposition may generate hazardous fumes and decomposition products.

## SECTION 11: TOXICOLOGICAL INFORMATION

**Likely Routes of Exposure:** Eye, ingestion, skin and inhalation.

### Acute Toxicity:

#### Hexylene Glycol

Oral LD<sub>50</sub> (rat) = 3700 mg/Kg  
 Dermal LD<sub>50</sub> (rabbit) = 7892 mg/Kg  
 Inhalation LC<sub>50</sub> (rat) = No data

#### Ethylene glycol butyl ether

Oral LD<sub>50</sub> (rat) = 880 mg/Kg  
 Dermal LD<sub>50</sub> (rabbit) = 1060 mg/Kg  
 Inhalation LC<sub>50</sub> (rat) = No data

### Delayed and Immediate Effects:

**Inhalation:** High misting conditions may cause respiratory irritation.  
**Skin contact:** May cause skin irritation. Prolonged or repeated contact may cause irritation.  
**Eye contact:** Direct contact may cause eye irritation.  
**Ingestion:** May cause nausea, abdominal discomfort and diarrhea.

**Respiratory or skin sensitization:** None known

**Aspiration Hazard:** None known

**Chronic Effects:** Based on available data, repeated exposures are not expected to cause any significant adverse effects.

**Carcinogenicity:** The ingredients in this product are not classified as carcinogenic by the ACGIH, IARC, OSHA and NTP.

**Mutagenicity:** No data

**Reproductive effects:** No data

**Other information:** None known

## SECTION 12: ECOLOGICAL INFORMATION

### Ecotoxicity:

#### Ethylene glycol butyl ether

Toxicity to Fish – *Oncorhynchus mykiss* (rainbow trout): 1474 mg/L 96h  
 Toxicity to daphnia, other invertebrates – *Daphnia magna* (water flea): 1550 mg/L 48 h.  
 Toxicity to algae – Growth inhibition LC50 *Pseudokirchnerella subcapitata* (green algae) – 1840 mg/L 72 h.

#### Hexylene ether

Toxicity to Fish – *Pimephales promelas* (fathead minnow): 10.700 mg/L 96h  
 Toxicity to daphnia, other invertebrates – *Daphnia magna* (water flea): 3200 mg/L 48 h.

**Persistence and Degradability:** No data available

**Bioaccumulative Potential:** No data available

**Mobility in Soil:** No data.

**Other Adverse Effects:** No data.

## SECTION 13: DISPOSAL CONSIDERATIONS

**Container Disposal:** Non-refillable container. Do not reuse. Triple rinse container and place rinse water into the spray tank. If available, offer for recycling or puncture and dispose of in a sanitary landfill, or by other procedures approved by provincial and local authorities.

**Waste Disposal:** Dispose of waste material at an approved (hazardous) waste treatment/disposal facility in accordance with applicable local, provincial and federal regulations. Do not dispose of waste with normal garbage or to sewer systems.

## SECTION 14: TRANSPORT INFORMATION

**Canadian TDG classification:** Not regulated

**Transportation Emergency Telephone Number:** 613-787-5620.

**Special Precautions:** None known

**Marine Pollutant:** No

## SECTION 15: REGULATORY INFORMATION

**WHMIS Classification:** Class D2B Moderate skin eye irritation

**Domestic Substance List (DSL):** All ingredients are listed on the DSL

**CEPA – National Pollutant Release Inventory:** Not listed on the NPRI

## SECTION 16: OTHER INFORMATION

The information contained herein is offered only as a guide to the handling of this specific material and has been prepared in good faith by technically knowledgeable personnel. It is not intended to be all-inclusive and the manner and conditions of use and handling may involve other and additional considerations. No warranty of any kind is given or implied and Norac Concepts Inc. will not be liable for any damages, losses, injuries or consequential damages which may result from the use of or reliance on any information contained herein.

**SDS Prepared By:** Norac Concepts Inc  
Technical Department

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