



# Material Safety Data Sheet

This MSDS is prepared in accordance with OSHA 29 CFR 1910.1200



**CLASS B-3:** Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F).  
**CLASS D-1A:** Material causing immediate and serious toxic effects (VERY TOXIC).

Class: Combustible liquid having a flash point between 37.8°C (100°F) and 93.3°C (200°F).

WHMIS (Pictograms)

WHMIS (Classification)

HCS

## Section 1. Chemical Product and Company Identification

<b>Product Name/ Trade name</b>	<b>Scorch Plus 1021</b>	<b>Code</b>	<b>352</b>
<b>Synonym</b>	Vegetation Killer	<b>CAS #</b>	Mixture.
<b>Chemical Family</b>	Not available.	<b>Validation Date</b>	3/2/2007
<b>Chemical Formula</b>	Not applicable.	<b>Print Date</b>	3/24/2007
<b>Manufacturer/ Supplier</b>	Betco Corporation 1001 Brown Avenue Toledo, Oh 43607 (419) 241-2156	<b>In Case of Emergency</b>	Emergency (800) 451-8346
<b>TSCA</b>	TSCA Inventory: All components listed or are exempt from listing.		
<b>DSL/ NDSL</b>	All components listed unless noted elsewhere on this MSDS		
		<b>Protective Clothing</b> 	

## Section 2. Composition and Information on Ingredients

Name	CAS #	% by Weight	Exposure Limits	LC <sub>50</sub> /LD <sub>50</sub>
Aliphatic Hydrocarbon Mixture	8008-20-6	>75	TWA: 100 (ppm) TWA: 100 (ppm) from OSHA (PEL) [United States]	Not available.
Prometon: 2,4-Bis (isopropylamino)-6-Methoxy-S-Triazi	1610-18-0	3.73	Not available.	Not available.
2-Butoxyethanol	111-76-2	0-5	TWA: 20 (ppm) from ACGIH (TLV) [United States] TWA: 50 (ppm) from OSHA (PEL) [United States]	ORAL (LD50): Acute: 1746 mg/kg [Rat].
Nonionic Surfactant	9016-45-9	0-5	Not available.	Not available.

## Section 3. Hazards Identification

<b>Potential Acute Health Effects</b>	Slightly hazardous in case of skin contact (permeator), of ingestion, . Non-corrosive for skin. Non-corrosive to the eyes. Non-corrosive for lungs.
<b>Potential Chronic Health Effects</b>	Over-exposure by inhalation may cause respiratory irritation. Repeated skin exposure can produce local skin destruction, or dermatitis.
<b>Carcinogenic Effects</b>	Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.

### Section 4. First Aid Measures

<b>Eye Contact</b>	Flush eyes with large quantities of water. Seek medical attention if irritation persists.
<b>Skin Contact</b>	Remove contaminated clothing. Wash affected area with soap and water. Seek medical attention if irritation persists.
<b>Inhalation</b>	Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration., preferably mouth to mouth if possible. Call a poison control center or doctor for further treatment advice.
<b>Ingestion</b>	Call a poison control center immediately for treatment advice. NEVER give an unconscious person anything to ingest.

### Section 5. Fire Fighting Measures

<b>Products of Combustion</b>	Not available.
<b>Fire Fighting Media and Instructions</b>	Foam, CO2, halon, or dry chemical.
<b>Special Remarks on Fire Hazards</b>	Avoid use of water streams.
<b>Special Remarks on Explosion Hazards</b>	Drums heated by a fire can explode.

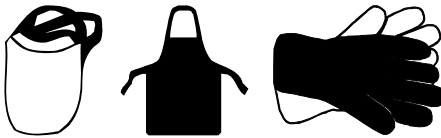
### Section 6. Accidental Release Measures

<b>Small Spill and Leak</b>	Safety glasses.
<b>Large Spill and Leak</b>	Absorb with DRY earth, sand or other non-combustible material. Call for assistance on disposal.
<b>Personal Protection in Case of a Large Spill</b>	Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

### Section 7. Handling and Storage

<b>Precautions</b>	Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapor/spray. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label.
<b>Incompatibility</b>	Strong oxidizers.
<b>Storage</b>	Combustible materials should be stored away from extreme heat and away from strong oxidizing agents. Keep out of the reach of children. Not for use or storage in or around the home.

### Section 8. Exposure Controls/Personal Protection

<b>Engineering Controls</b>	Good general ventilation should be sufficient to control airborne levels.
<b>Personal Protection</b>	
<i>Eyes</i>	Face shield.
<i>Body</i>	Wear overalls or long sleeved shirt and long trousers, nitrile rubber or neoprene gloves, rubber boots.
<i>Respiratory</i>	Wear appropriate respirator when ventilation is inadequate.
<i>Hands</i>	Gloves (impervious).
<b>Protective Clothing (Pictograms)</b>	

**Exposure Limits****Aliphatic Hydrocarbon Mixture**

TWA: 100 (ppm)

TWA: 100 (ppm) from OSHA (PEL) [United States]

**2-Butoxyethanol**

TWA: 20 (ppm) from ACGIH (TLV) [United States]

TWA: 50 (ppm) from OSHA (PEL) [United States]

**Isopropyl Alcohol**

TWA: 400 (ppm)

TWA: 400 (ppm) from OSHA (PEL) [United States]

STEL: 500 (ppm)

Consult local authorities for acceptable exposure limits.

**Section 9. Physical and Chemical Properties****Physical State and Appearance**

Liquid.

**Odor**

Characteristic.

**Molecular Weight**

Not applicable.

**Taste****pH**

Not available.

**Color**

Brown.

**Boiling/Condensation Point**

350°F initial

**Melting/Freezing Point**

Not available.

**Critical Temperature**

Not available.

**Instability Temperature**

Not available.

**Specific Gravity**

0.82-0.84 (Water = 1)

**Vapor Pressure**

&lt;10mm Hg @ 68°F

**Vapor Density**

&gt;1 (Air = 1)

**Volatility**

80

**VOC**

Not available.

**Evaporation Rate**

&lt;1

**Dispersion Properties**

See solubility in water.

**Solubility**

Not available.

**The Product is:**

Flammable.

**Auto-ignition Temperature**

Not available.

**Flash Points**

CLOSED CUP: 45.7778°C (114.4°F).

**Flammable Limits**

LOWER: 1% UPPER: 6%

**Fire Hazards in Presence of Various Substances**

Not available.

**Explosion Hazards in Presence of Various Substances**

Containers may explode when heated.

### Section 10. Stability and Reactivity Data

**Stability** The product is stable.

**Incompatibility with Various Substances** Strong oxidizers.

**Hazardous Decomposition Products** Will not occur.

### Section 11. Toxicological Information

**Routes of Entry** Absorbed through skin. Eye contact. Inhalation. Ingestion.

**Toxicity to Animals** Acute oral toxicity (LD50): 1746 mg/kg [Rat]. (2-Butoxyethanol).

#### Acute Effects on Humans

*Eyes* May be irritating to the eyes.

*Skin* Defatting to the skin. Prolonged or repeated contact may cause irritation or dermatitis.

*Inhalation* May be irritating to the nose and throat. High concentrations may cause headache, nausea, vomiting, and dizziness.

*Ingestion* May cause nausea, vomiting, diarrhea, and restlessness. Aspiration into the lungs of even small amounts can result in chemical pneumonitis.

**Chronic Effects on Humans** Over-exposure by inhalation may cause respiratory irritation. Repeated skin exposure can produce local skin destruction, or dermatitis.

**Special Remarks on Toxicity to Animals** Not available.

**Special Remarks on Chronic Effects on Humans** Not available.

### Section 12. Ecological Information

**Ecotoxicity** Not available.

**BOD5 and COD** Not available.

**Products of Biodegradation** Not available.

**Toxicity of the Products of Biodegradation** Not available.

**Special Remarks on the Products of Biodegradation** Not available.

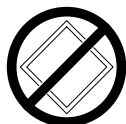
### Section 13. Disposal Considerations

**Waste Information** Waste must be disposed of in accordance with federal, state and local environmental control regulations.

**Waste Stream** Not available.

### Section 14. Transport Information

**DOT (U.S.A) (Pictograms)**



**TDG Classification** Class 3: Flammable liquid.



**PIN UN, Proper Shipping Name, PG** Shipping name: FLAMMABLE LIQUIDS, N.O.S. UNNA: UN1993 PG: III

**Maritime Transportation** Not available.

**Special Provisions for Transport** Not available.

**Section 15. Other Regulatory Information and Pictograms**

**WHMIS (Classification)** CLASS B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F).  
CLASS D-1A: Material causing immediate and serious toxic effects (VERY TOXIC).



**Regulatory Lists** No products were found.

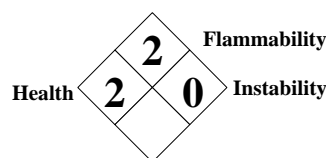
**Other Regulations** OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

<b>Other Classifications</b>	<b>HCS (U.S.A.)</b>	Class: Combustible liquid having a flash point between 37.8°C (100°F) and 93.3°C (200°F).
	<b>USA Regulatory Lists</b>	California prop. 65: This product contains the following ingredients for which the State of California has found to cause reproductive harm (female) which would require a warning under the statute: Ethylene Oxide < 1 ppm California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: Ethylene Oxide < 1 ppm Pennsylvania RTK: Propylene Glycol SARA 311/312 MSDS distribution - chemical inventory - hazard identification: 2-Butoxyethanol: immediate health hazard, delayed health hazard; Isopropyl Alcohol: fire SARA 313 toxic chemical notification and release reporting: 2-Butoxyethanol
	<b>DSD (EEC)</b>	R10- Flammable.
	<b>International Regulations Lists</b>	No products were found.

**Hazardous Material Information System (U.S.A.)**

Health	*	3
Flammability		2
Physical Hazard		0

**National Fire Protection Association (U.S.A.)**



The Hazard Ranking systems presented on this MSDS provide only a quick reference for hazard information. The ENTIRE MSDS must be consulted to determine any specific hazards, First Aid measures, and PPE associated with this product.

**Section 16. Other Information**

Validated by CRushton on 3/2/2007.

Verified by CRushton.

Printed 3/24/2007.

**Information Contact Betco Corporation**  
1001 Brown Avenue  
Toledo, Ohio 43607

Notice to Reader

*To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.*

*Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.*

Validated on 3/2/2007.

**Scorch Plus 1021**

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