





Material Safety Data Sheet

This MSDS is prepared in accordance with OSHA 29 CFR 1910.1200

 WHMIS (Pictograms)	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). WHMIS (Classification)	Class: Combustible liquid having a flash point between 37.8°C (100°F) and 93.3°C (200°F). HCS
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Section 1. Chemical Product and Company Identification

Product Name/ Trade name Scorch Plus 1021	Code 352
Synonym Vegetation Killer	CAS # Mixture.
Chemical Family Not available.	Validation Date 3/26/2004
Chemical Formula Not applicable.	Print Date 3/27/2004
Manufacturer/ Supplier Betco Corporation 1001 Brown Avenue Toledo, Oh 43607 (419) 241-2156	In Case of Emergency Emergency (800) 451-8346
TSCA TSCA Inventory: All components listed or are exempt from listing.	Protective Clothing 
DSL/ NDSL All components listed unless noted elsewhere on this MSDS	

Section 2. Composition and Information on Ingredients

Name	CAS #	% by Weight	Exposure Limits	LC ₅₀ /LD ₅₀
1) Aliphatic Hydrocarbon Mixture	8008-20-6	>75	TWA: 100 (ppm) TWA: 100 (ppm) from OSHA (PEL) [United States]	Not available.
2) Prometon: 2,4-Bis (isopropylamino)-6-Methoxy-S-Triazine	1610-18-0	3.73	Not available.	Not available.
3) 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].
4) Nonionic Surfactant	9016-45-9	0-5	Not available.	Not available.

Section 3. Hazards Identification

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

Section 4. First Aid Measures

Eye Contact	Flush eyes with large quantities of water. Seek medical attention if irritation persists.
Skin Contact	Remove contaminated clothing. Wash affected area with soap and water. Seek medical attention if irritation persists.
Inhalation	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.
Ingestion	Call a poison control center immediately for treatment advice. NEVER give an unconscious person anything to ingest.

Section 5. Fire Fighting Measures

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


Section 6. Accidental Release Measures

Small Spill and Leak	Safety glasses.
Large Spill and Leak	Absorb with DRY earth, sand or other non-combustible material. Call for assistance on disposal.
Personal Protection in Case of a Large Spill	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

Precautions	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.
Incompatibility	Strong oxidizers.
Storage	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

Engineering Controls	Good general ventilation should be sufficient to control airborne levels.
Personal Protection	
<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).
Protective Clothing (Pictograms)	

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	<10mm Hg @ 68°F		
Vapor Density	>1 (Air = 1)		
Volatility	80		
VOC	Not available.		
Evaporation Rate	<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.	


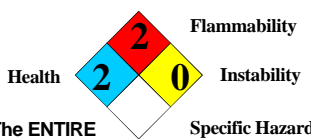
Section 15. Other Regulatory Information and Pictograms

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).	
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Regulatory Lists	No products were found.
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Other Regulations	OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).
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Other Classifications	HCS (U.S.A.)	Class: Combustible liquid having a flash point between 37.8°C (100°F) and 93.3°C (200°F).
	USA Regulatory Lists	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
	DSD (EEC)	R10- Flammable.
	International Regulations Lists	No products were found.

Hazardous Material Information System (U.S.A.)		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 3/26/2004.	Verified by CRushton. Printed 3/27/2004.
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Information Contact	Betco Corporation 1001 Brown Avenue Toledo, Ohio 43607
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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.*

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