FIREWORKS Safety Data Sheet

USFT™

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1. IDENTIFICATION

Product Name: FIREWORKS

Other means of identification: SDS # USFT-002 UN/ID No: UN1760

Recommended use: Floor wax stripper / concentrate

Prepared by: Safety Department Source: US Formula Technology / 1000 McFarland 400 Blvd / Alpharetta, GA 30004 USA

Company Phone Number: 770-813-0008 or 800-728-7972 / Fax: 770-813-0470

Emergency Telephone (24 Hours) INFOTRAC 352-323-3500 (International) 1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Classification

Acute toxicity - Oral Category 4 Acute toxicity - Dermal Acute toxicity - Inhalation (Dusts/Mists) Category 4 Category 4

Category 1 Sub-category B Skin corrosion/irritation

Serious eye damage/eye irritation Specific target organ toxicity (single exposure) Category 1 Category 3 Flammable liquids Category 4

Signal word: Danger

Hazard statements

Harmful if swallowed Harmful in contact with skin.

Harmful if inhaled

Causes severe skin burns and eye damage. May cause respiratory irritation

May cause drowsiness or dizziness Combustible liquid

Appearance: Clear green to brown liquid Physical state: Liquid / Odor: Ether



Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Wear protective gloves/protective clothing/eye protection/face protection
Use in a well-ventilated area. Do not breathe dust/fume/gas/mist/vapors/spray
Keep away from heat/sparks/open flames/hot surfaces — No smoking

Precautionary Statements: RESPONSE

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

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a POISON CENTER or doctor/physician if you feel unwell Wash contaminated clothing before reuse

Wash Collection of the Collect

Rinse mouth. Do NOT induce vomiting

IN CASE OF FIRE: Use CO2, dry chemical, or foam for extinction

Precautionary Statements: STORAGE

Store locked up. Store in a well-ventilated place. Keep container tightly closed

Precautionary Statements: DISPOSAL

Dispose of contents/container at an approved waste disposal plant

Hazards not otherwise classified (HNOC): Not Applicable

Other Information: Harmful to aquatic life with long lasting effects

3. COMPOSITION / INFORMATION on INGREDIENTS

Chemical Name CAS No Weight-% 2-Butoxyethanol 15-30 141-43-5 5-15 Ethanolamine Potassium hydroxide 1310-58-3 5-10

4. FIRST AID MEASURES

INHALATION: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a physician immediately.

EYE CONTACT: Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get immediate medical advice/attention.

INGESTION: Rinse mouth. DO NOT induce vomiting (aspiration risk). Drink 1/2 cup water, citrus fruit juice, or milk. Call a physician or poison control center immediately

SKIN CONTACT: Wash off immediately with plenty of water for at least 15 minutes. Take off contaminated clothing. Wash contaminated clothing before reuse Call a physician if you feel unwell.

(continued next column)

section 4 continued (FIRST AID MEASURES)

Most important symptoms and effects, both acute and delayed

Contact will cause irritation and redness to exposed areas. Causes painful stinging or burning of eyes and lids, watering of eyes. Prolonged contact may even cause severe skin irritation or mild burn. Overexposure by inhalation may cause CNS depression, drowsiness, dizziness, confusion, headache or loss of coordination. Ingestion may cause severe burns to mouth, throat or stomach. Indication of any immediate medical attention and special treatment needed Note to physicians: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Water spray (fog). Alcohol resistant foam. Dry chemical. Unsuitable Extinguishing Media: Not determined

Specific hazards arising from the chemical: Combustible material. Keep containers cool. Protective equipment and precautions for firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Use personal protective equipment as required. Remove all sources of

ignition. Spills may be slippery. Prevent foot traffic.
Environmental precautions: Do not discharge outside. Do not permit to escape directly into creeks or other natural waterways

Methods for containment. Prevent further leakage or spillage if safe to do so

Methods for cleaning up large spills: Reclaim liquid with mop and bucket. Filter and save for some use where quality is not critical. Rinse area with clean water and dry before permitting

Methods for cleaning up small spills: Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Clean up in accordance with all applicable regulations.

7. HANDLING AND STORAGE

Precautions for safe handling Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Do not breathe dust/fume/gas/mist/vapors/spray. Use personal protection recommended in Section 8. Use only in well-ventilated areas. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Protect product quality by keeping containers tightly closed when not in use, avoid pouring unused material back into original container. Never use food or beverage containers to measure or transport this product. Empty containers contain residues and should not be used for food or beverage.

Storage Conditions: Keep containers tightly closed in a dry, cool and well-ventilated place. Keep locked up and out of reach of children and pets. Protect from direct sunlight. Store at

Packaging materials: Keep in original container Incompatible materials: Bleach, strong acids

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

	ACGIH TLV OSHA PEL		NIOSH IDLH	
2-Butoxyethanol CAS #111-76-2	TWA: 20 ppm	TWA: 50 ppm TWA: 240 mg/m3 (vacated) TWA: 25 ppm (vacated) TWA: 120 mg/m3 (vacated) S*	IDLH: 700 ppm TWA: 5 ppm TWA: 24 mg/m3	
Ethanolamine CAS #141-43-5	STEL: 6 ppm TWA: 3 ppm	TWA: 3 ppm TWA: 6 mg/m3 (vacated) TWA: 3 ppm (vacated) TWA: 8 mg/m3 (vacated) STEL: 6 ppm (vacated) STEL: 15 mg/m3	IDLH: 30 ppm TWA: 3 ppm TWA: 8 mg/m3 STEL: 6 ppm STEL: 15 mg/m3	
Potassium hydroxide CAS #1310-58-3	Ceiling: 2 mg/m3	(vacated) Ceiling: 2 mg/m3	Ceiling: 2 mg/m3	

Appropriate Engineering Controls

Apply technical measures to comply with the occupational exposure limits. Individual protection measures, Appropriate Personal Protective Equipment: Eye/face protection: Wear approved safety goggles.

Skin and body protection: Wear butyl rubber or neoprene gloves.

Avoid sneakers, wear rubber overshoes with attached pads for traction, rubber gloves, rubber apron, as appropriate, to prevent skin contact.

Respiratory protection: Under normal conditions, respirator is not normally required. General Hygiene: Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

>13 Melting point/freezing point Not determined Boiling point/boiling range 100 °C / 212 °F > 60 °C / > 140 °F Flash point Evaporation rate 1.0 Flammability (solid, gas) Flammability limits in air: n/a-liquid Upper flammability limits 10.6% Lower flammability limit 1.1% Vapor pressure Vapor density Not determined Heavier than air

Specific gravity Water solubility Solubility in other solvents Partition coefficient Autoignition temperature Decomposition temperature Kinematic viscosity Dynamic viscosity Explosive properties Oxidizing properties

Complete Not determined Not determined

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10. STABILITY AND REACTIVITY

Reactivity: Not reactive under normal conditions

Chemical stability: Stable under recommended storage conditions. Possibility of Hazardous Reactions: None under normal processing. Hazardous polymerization: Hazardous polymerization does not occur.

Conditions to avoid: Incompatible materials. Heat. Incompatible materials: Bleach, Strong acids, Hazardous Decomposition Products: Not determined

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure Inhalation: Harmful if inhaled.

Eye contact: Causes severe eye damage.

Skin Contact: Harmful in contact with skin: Causes severe skin burns.

Ingestion: Harmful if swallowed.

Component Information

	Oral LD50 Dermal LD50		Inhalation LC50	
2-Butoxyethanol	= 470 mg/kg	= 2270 mg/kg (Rat)	= 2.21 mg/L (Rat) 4 h	
CAS #111-76-2	(Rat)	= 220 mg/kg (Rabbit)	= 450 ppm (Rat) 4 h	
Ethanolamine	= 1720 mg/kg	= 1 mL/kg (Rabbit)	-	
CAS #141-43-5	(Rat)	= 1025 mg/kg (Rabbit)		
Potassium hydroxide CAS #1310-58-3	= 214 mg/kg (Rat)	-	-	

Information on physical, chemical and toxicological effects: please see section 4 of this SDS

Delayed and immediate effects as well as chronic effects from short and long-term exposure CarcinogenicityNot classifiable as a human carcinogen.

ACGIH IARC Chemical Name OSHA 2-Butoxyethanol 111-76-2 A3 Group 3

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 3 IARC components are "not classifiable as human carcinogens"

STOT - single exposure

May cause respiratory irritation. May cause drowsiness or dizziness.

Numerical measures of toxicity - Not determined

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral) 672 mg/kg ATEmix (dermal) 1467 mg/kg ATEmix (inhalation-gas) 50000 mg/L ATEmix (inhalation-dust/mist) 2.5 mg/L

12. ECOLOGICAL INFORMATION

Algae /

Ecotoxicity Harmful to aquatic life with long lasting effects

Chemical	Aquatic plants	Fish	Microorganisms	Crustacea
2-Butoxyethanol CAS #111-76-2		1490: 96 h Lepomis macrochirus mg/L LC50 static 2950: 96 h Lepomis macrochirus mg/L LC50		1698 - 1940: 24 h Daphnia magna mg/L EC50 1000: 48 h Daphnia magna mg/L EC50
Ethanolamine 141-43-5	15: 72 h Desmodesmus subspicatus mg/L EC50	227: 96 h Pimephales promelas mg/L LC50 flow-through 3684: 96 h Brachydanio rerio mg/L LC50 static 300 - 1000: 96 h Lepomis macrochirus mg/L LC50 static 114 - 196: 96 h Oncorhynchus my/kiss mg/L LC50 static 200: 96 h Oncorhynchus mykiss mg/L LC50 flow-through	EC50 = 110 mg/L 17 h EC50 = 12200 mg/L 2 h EC50 = 13.7 mg/L 30 min	65: 48 h Daphnia magna mg/L EC50
Potassium hydroxide 1310-58-3		80: 96 h Gambusia affinis mg/L		

Persistence and degradability: Not determined.

Bioaccumulation: Not determined. Contains no known bioaccumulative ingredients.

Mobility: Not determined.

Chemical Name Partition coefficient

2-Butoxyethanol CAS #111-76-2 0.81 Ethanolamine CAS #141-43-5 -1.91 Potassium hydroxide CAS #1310-58-3 0.65 / 0.83

Other adverse effects

13. DISPOSAL CONSIDERATIONS

Waste treatment methods: dispose of wastes in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging Disposal should be in accordance with applicable regional,

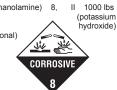
California Hazardous Waste Status: for Potassium Hydroxide #1310-58-3: Toxic /Corrosive

14. TRANSPORT INFORMATION

UN ID No Proper Shipping Name (same for DOT, IATA and IMDG)

UN1760 Corrosive liquid, n.o.s (potassium hydroxide, ethanolamine) 8,

Emergency Telephone INFOTRAC 352-323-3500 (International) 1-800-535-5053 (North America) Note: Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.



15. REGULATORY INFORMATION

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List EINECS/ ELINCS - European Inventory of Existing Chemical Substances/

/ European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances IECSC - China Inventory of Existing Chemical Substances KECL - Korean Existing and Evaluated Chemical Substances PICCS - Philippines Inventory of Chemicals and Chemical Substances

US Federal Regulations

SARA 313 - Threshold Value Chemical Name CAS No Weight-% 2-Butoxyethanol 111-76-2

SARA 311/312 Hazard Categories

CWA - Reportable Quantities: 1000 lb (Potassium Hydroxide)

CWA - Toxic Pollutants CWA - Priority Pollutants

CWA - Hazardous Substances: Yes (Potassium Hydroxide)

Hazardous Substances RQ: 1000 lb (Potassium Hydroxide)

CERCLA/SARA RO

Reportable Quantity: 1000 lb final / 454 kg final (Potassium Hydroxide)

US State Regulations: U.S. State Right-to-Know Regulations

New Jersey	Massachusetts	Pennsylvania
X	X	X
X	X	X
X	X	X
	New Jersey X X X	X X

16. OTHER INFORMATION

HMIS

Health hazards: Not determined Flammability: Not determined Physical hazards: Not determined Personal protection: Not determined



Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.