EXCESSIVE FORCE Safety Data Sheet

Issue Date: 06-Feb-2013 Revision Date: 21-Feb-2013 v.4
Prepared by: Safety Department

1. IDENTIFICATION

Product Name: EXCESSIVE FORCE
Other means of identification: SDS # USFT-001 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 Number (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	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin corrosion/irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1
Specific target organ toxicity (single exposure)	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

Precautionary Statements: **PREVENTION**
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
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
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	111-76-2	30-50
Ethanolamine	141-43-5	15-25
Potassium hydroxide	1310-58-3	10-20

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.

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

Combustible.
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 traffic.
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 40-95°F.
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

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

Specific gravity	<1
Water solubility	Complete
Solubility in other solvents	Not determined
Partition coefficient	Not determined
Autoignition temperature	Not determined
Decomposition temperature	Not determined
Kinematic viscosity	Not determined
Dynamic viscosity	Not determined
Explosive properties	Not determined
Oxidizing properties	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 CAS #111-76-2	= 470 mg/kg (Rat)	= 2270 mg/kg (Rat) = 220 mg/kg (Rabbit)	= 2.21 mg/L (Rat) 4 h = 450 ppm (Rat) 4 h
Ethanolamine CAS #141-43-5	= 1720 mg/kg (Rat)	= 1 mL/kg (Rabbit) = 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 for Symptoms

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

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

Legend:
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

Ecotoxicity Harmful to aquatic life with long lasting effects

Chemical	Algae / 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 mykiss 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 Not determined

13. DISPOSAL CONSIDERATIONS

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

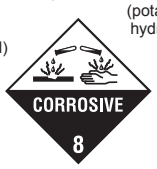
Contaminated packaging Disposal should be in accordance with applicable regional, national and local laws.

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)	Class	PG	RQ
UN1760	Corrosive liquid, n.o.s (potassium hydroxide, ethanolamine)	8,	II	1000 lbs (potassium hydroxide)

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

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Value
2-Butoxyethanol	111-76-2	30 - 50	1 %

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

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

Chemical Name	New Jersey	Massachusetts	Pennsylvania
2-Butoxyethanol 111-76-2	X	X	X
Ethanolamine 141-43-5	X	X	X
Potassium hydroxide1310-58-3	X	X	X

16. OTHER INFORMATION

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

NFPA

0 = minimal risk
1 = slight risk
2 = moderate risk
3 = serious risk
4 = extreme risk

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.

End of SDS