



MATERIAL SAFETY DATA SHEET

Section 1. Product and Company Identification

Product Name: EzFlow Tip Blender
Formula: 30-1303
Item#: 87-5168, 66034

DATE: 12/27/2007
REV. 00

Manufacturer: American International Industries
2220 Gaspar Ave
Los Angeles, CA 90040
Chem-Tel: (800) 255-3924

Section 2. Composition / Information on Ingredients

Hazardous Ingredients:

Component	CAS #	%	Exposure Limits
Gamma-Butyrolactone	96-48-0	70-80	Not available
Alcohol Denat.	64-17-5	20-30	TWA: 1000ppm from OSHA (PEL) TWA: 1000ppm from ACGIH (TLV)

Section 3. Hazardous Identification

Emergency Overview: **WARNING!**
BIRTH DEFECT HAZARD. CONTAINS MATERIAL WHICH CAN CAUSE BIRTH DEFECT.
CONTAINS MATERIAL WHICH CAUSES DAMAGE TO THE FOLLOWING ORGANS: BLOOD,
NERVOUS SYSTEM, REPRODUCTIVE SYSTEM, LIVER, RESPIRATORY TRACT, EYES,
CENTRAL NERVOUS SYSTEM.
FLAMMABLE LIQUID AND VAPOR. VAPOR MAY CAUSE FLASH FIRE. MAY CAUSE EYE AND
SKIN IRRITATION.
Keep away from heat, sparks and flame. Avoid contact with eyes, skin and clothing. Keep
container closed. Use only with adequate ventilation. Avoid exposure during pregnancy. Wash
thoroughly after handling.

Potential Health Effects, Signs and Symptoms of Exposure:

Primary Route of Entry: Eyes, skin, inhalation and ingestion.

Eye: Irritation and tearing may result if exposed to above exposure limits.

Skin: May cause drying, redness and irritation. May be absorbed through damaged skin.

Ingestion: One ounce of pure ethanol may cause reddening of face and neck, and an exaggerated feeling of well-being. Three ounces of pure ethanol may cause an initial burst of excitement and activity followed by increasing loss of coordination, slurred speech, nausea and drowsiness. This may proceed to stupor, coma, and death. Lethal dose of ethanol ranges from two to five ounces, depending on age and size of the individual.



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Inhalation:	Levels of 5000ppm to 10000ppm may result in irritation of mouth, nose, and throat, coughing, and leading to sleep and stupor.
Potential Chronic Health Effects:	CARCINOGENIC EFFECTS: Classified A4 (Not classifiable for human or animal.) by ACGIH Long term exposure: Prolonged inhalation may produce symptoms listed under inhalation and additional symptoms of headache, dizziness, tremor and fatigue. Alcohol has been linked to birth defects in humans.
Medical Conditions Aggravated by Overexposure:	Repeated or prolonged exposure to this product may aggravate existing skin, eye, and/or respiratory condition.
Overexposure/ Signs/Symptoms:	Not available.

Section 4. First Aid Measures

First Aid for Eye:	Check for and remove and contact lenses. Immediately flush with water for at least 15 minutes, including under eyelids. Cold water may be used. Get medical attention.
First Aid for Skin:	In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
First Aid for Inhalation:	If symptoms of prolonged exposure to concentrated materials vapors appear, remove to fresh air. If breathing is difficult, loosen any restrictive clothing and provide oxygen and get medical care if necessary.
First Aid for Ingestion:	Do NOT induce vomiting unless otherwise directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as collar, tie, belt or waistband. Get medical attention if symptoms appear.
Notes to physicians:	Medical surveillance: For those with frequent or potential high exposure, liver function tests are recommended. Ethanol can be measured in the blood, urine, and exhaled breath.

Section 5. Fire Fighting Measures

Flash Point (°F/°C):	The lowest known value is CLOSED CUP: 12°C (53.6°F). (Ethanol)
Flammable Limit (vol%):	The greatest known range is LOWER: 3.3% UPPER: 19% (Ethanol)
Auto-ignition Temp. (vol%):	The lowest known value is 455°C (851°F)
Products of Combustion:	These products are carbon oxides (CO, CO2)



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Fire Hazards in Presence of Various Substances: Not available.

Explosion Hazards in Presence of Various Substances: None known.

Fire Fighting Media: Carbon Dioxide (CO₂)

Protective Clothing (Fire): Be sure to use an approved/certified respirator or equivalent.

Special Remarks on Fire Hazards: Not available.

Special Remarks on Explosion Hazards: Not available.

Section 6. Accidental Release Measures

Small Spill and Leak: Absorb with inert dry material and place in an appropriate waste disposal container.

Large Spill and Leak: Flammable Liquid
Keep away from heat. Keep away from source of ignition. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all ignition sources.

Section 7. Handling and Storage

Handling: Keep away from heat, sparks or flames. Keep container closed. Only use with adequate ventilation. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Use explosion-proof electrical (ventilating, lighting and material handling) equipment.

Storing: Product containing ethanol must be stored to avoid contact with strong oxidizers such as perchlorates, peroxides, chlorates, nitrates, and permanganates, because violent reactions occur. Store in tightly closed containers in cool, well-ventilated area away from heat or flame. Sources of ignition such as smoking and open flames are prohibited. Metal container involving transfer of 5 gallons or more should be grounded and bonded. Drums must be equipped with self-closing valves and pressure vacuum bung. Use only non-sparking tools and equipment, especially when opening and closing container.

Section 8. Exposure Controls / Personal Protective Equipment



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Engineering Controls: Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal Protection: Eyes: Splash goggles.
Body: Synthetic apron.
Respiratory: Vapor respirator. Be sure to use an approved/certified respirator or equivalent.
Wear appropriate respirator when ventilation is inadequate.
Hands: Gloves (Impervious)
Feet: Not applicable.

Personal Protection in Case of a Large Spill: Splash goggles. Full suit. Boots. Gloves.

Section 9. Physical and Chemical Properties

Appearance @ 25°C:	Liquid. (Light Yellow)	Viscosity (RVT):	Not applicable
Odor @ 25°C:	Ester	Vapor Pressure:	The highest known value is 0.2kPa @ 20°C
pH (1% soln/water)	Acidic.	Vapor Density:	The highest known value is 1.6 (Air=1) (Ethanol)
Specific Gravity:	0.9 (Water=1)	Evaporation Rate:	9.2 (Ethanol) compared to Butyl Acetate
Ignition:	Not applicable	VOC:	34%
Boiling Point:	The lowest known value is 78.4 (173.1°F) (Ethanol). Weighted average: 173.35°C (344°F)		
Melting/Freezing:	May start to solidify at -43.5°C (-46.3°F)		
Solubility in Water	Soluble in cold water, hot water.		

Section 10. Stability and Reactivity

Stability: The product is stable

Hazardous Decomposition Products:
Not available

Incompatibility (Materials to Avoid):
Reactive with oxidizing agents, acids, alkalis.

Hazardous Polymerization:
Will not Occur

Section 11. Toxicological Information



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Chronic Effects on Humans: Carcinogenic effects: Classified A4 (Not classifiable for human or animal.) by ACGIH.
Developmental Toxicity: Classified Reproductive system/toxin/female, Reproductive system/toxin/male

Other Toxic Effects on Humans: Prolonged inhalation may produce symptoms listed under inhalation and additional symptoms of headache, dizziness, tremor and fatigue. Alcohol has been linked to birth defects in humans.

Section 12. Ecological Information

No data available.

Section 13. Disposable Considerations

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

Section 14. Transportation Information

<DOT Information>

Proper Shipping Name: Flammable Liquid , n.o.s. (Ethanol)
Hazard Class: 3
UN/NA: UN1993
Packing Group: II

Section 15. Regulatory Information

HCS Classification Class: Flammable Liquid having a flash point lower than 37.8°C (100°F)
Class: Target organ effects.
Class: Reproductive toxins.

U.S Federal Regulations: TSCA 8(b) inventory: Ethanol
SARA 302/304/311/312 extremely hazardous substances: No products were found.
SARA 302/304 emergency planning and notification: No products were found.
SARA 302/304/311/312 hazardous chemicals: No products were found.
SARA 311/312 MSDS distribution - chemical inventory - hazard identification: No products
SARA 313 toxic chemical notification and release reporting: No products were found.
Clean water Act (CWA) 307: No products were found
Clean water Act (CWA) 311: No products were found
Clean air act (CAA) 112 accidental release prevention: No products were found.
Clean air act (CAA) 112 regulated flammable substances: Ethanol
Clean air act (CAA) 112 regulated toxic substances: No products were found.
International Regulations: EINECS: Not available
DSCL (EEC) R11-Highly flammable. R36/38-Irritating to eyes and skin.



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State Regulations: Pennsylvania RTK: Ethanol
 Florida: Ethanol
 Minnesota: Ethanol
 Massachusetts RTK: Ethanol
 New Jersey: Ethanol

Section 16. Other Information

Hazard Material Information System (U.S.A.)

Fire=3

Health=1

Reactivity=0

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

Fire=3

Health=1

Reactivity=0