

Material Safety Data Sheet

Section 1. Chemical Product and Company Identification

Common Name	Tip Blender	Code
Supplier	EZ Flow Nail Ssystem 13720 Rosecrans Ave Santa Fe Springs, C 96070	MSDS#
Synonym	Not available.	Validation Date 10/16/2001
Trade name		Print Date 10/16/2001
Material Uses	Not available.	Responsible Name
Manufacturer		In Case of Emergency Monday-Friday, 830-500pm, 513-779-7300 EST. CHEMTREC - 1-800-9300 - 24 hours.

Section 2. Composition, Information on Ingredients

Name	CAS #	% by Weight	Exposure Limits
1) Gamma-Butyrolactone 2) Ethanol	96-48-0 64-17-5	70-80 20-30	Not available. TWA: 1000 (ppm) from OSHA (PEL) [United States] TWA: 1000 (ppm) from ACGIH (TLV) [United States]

Section 3. Hazards Identification

Physical State and Appearance	Liquid. (Light Yellow)
Emergency Overview	<p>WARNING!</p> <p>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.</p> <p>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.</p>
Routes of Entry	Absorbed through skin. Eye contact. Inhalation. Ingestion.
Potential Acute Health Effects	
Eyes	Irritation and tearing may result if exposed to above exposure limits.
Skin	May cause drying, redness and irritation. May be absorbed through damaged skin.
Inhalation	Levels of 5000 ppm to 10 000 ppm may result in irritation of mouth, nose, and throat, coughing, and leading to sleep and stupor.
Ingestion	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.
Potential Chronic Health Effects	<p>CARCINOGENIC EFFECTS: Classified A4 (Not classifiable for human or animal.) by ACGIH</p> <p>Long term exposure: Prolonged inhalation may produce symptoms listed under inhalation and additional symptoms of headache, dizziness, tremor and fatigue. Alcohol has been linked t birth defects in humans.</p>

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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.
See Toxicological Information (section 11)	

Section 4. First Aid Measures

Eye Contact	Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Get medical attention.
Skin Contact	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.
Inhalation	If symptoms of prolonged exposure to concentrated material vapors appear, remove to fresh air. If breathing is difficult, loosen any restrictive clothing and provide oxygen and get medical care if necessary.
Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.
Notes to Physician	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

Flammability of the Product	Flammable.
Auto-Ignition Temperature	The lowest known value is 455°C (851°F).
Flash Points	The lowest known value is CLOSED CUP: 12°C (53.6°F). (Ethanol)
Flammable Limits	The greatest known range is LOWER: 3.3% UPPER: 19% (Ethanol)
Products of Combustion	These products are carbon oxides (CO, CO2).
Fire Hazards in Presence of Various Substances	Not available.
Explosion Hazards in Presence of Various Substances	None known.
Fire Fighting Media and Instructions	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

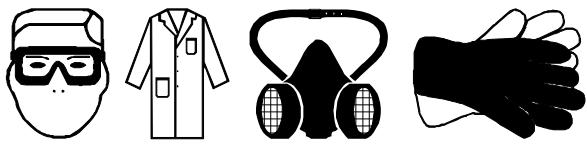
Small Spill and Leak	Absorb with an inert dry material and place in an appropriate waste disposal container. If necessary:
Large Spill and Leak	Flammable liquid. Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed.

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Section 7. Handling and Storage

Handling	Keep away from heat, sparks and flame. Keep container closed. Use only 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.
Storage	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, pressure vacuum bungs, and flame arresters. Use only non-sparking tools and equipment, especially when opening and closing container.

Section 8. Exposure Controls, Personal Protection

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	
<i>Eyes</i>	Splash goggles.
<i>Body</i>	Synthetic apron.
<i>Respiratory</i>	Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.
<i>Hands</i>	Gloves (impervious).
<i>Feet</i>	Not applicable.
Protective Clothing (Pictograms)	
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Boots. Gloves.
Product Name	Exposure Limits
1) Dihydro-1 (3H) -Furanone	Not available.
2) Ethanol	TWA: 1000 (ppm) from OSHA (PEL) [United States] TWA: 1000 (ppm) from ACGIH (TLV) [United States]
Consult local authorities for acceptable exposure limits.	

Section 9. Physical and Chemical Properties

Physical State and Appearance	Liquid. (Light Yellow)	Odor	Ester like.
Molecular Weight	Not applicable.	Taste	Not available.
Molecular Formula	Not applicable.	Color	Clear Yellow. (Light.)
pH (1% Soln/Water)	Acidic.		
Boiling/Condensation Point	The lowest known value is 78.4 (173.1°F) (Ethanol). Weighted average: 173.35°C (344°F)		
Melting/Freezing Point	May start to solidify at -43.5°C (-46.3°F)		
Critical Temperature	Not available.		
Specific Gravity	0.9 (Water = 1)		

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Vapor Pressure	The highest known value is 0.2 kPa (@ 20°C).
Vapor Density	The highest known value is 1.6 (Air = 1) (Ethanol).
Volatility	34% (v/v). (Ethanol.)
Odor Threshold	The highest known value is 180 ppm (Ethanol)
Evaporation Rate	9.2(Ethanol) compared to Butyl acetate.
VOC	34 (%)
Viscosity	Not available.
LogK_{ow}	Not available.
Ionicity (in Water)	Not available.
Dispersion Properties	See solubility in water.
Solubility	Soluble in cold water, hot water.
Physical Chemical Comments	Not available.

Section 10. Stability and Reactivity

Stability and Reactivity	The product is stable.
Conditions of Instability	Not available.
Incompatibility with Various Substances	Reactive with oxidizing agents, acids, alkalis.
Hazardous Decomposition Products	Not available.
Hazardous Polymerization	Will not occur.

Section 11. Toxicological Information

Toxicity to Animals	Acute oral toxicity (LD50): 3450 mg/kg [Mouse]. (Ethanol).
Chronic Effects on Humans	CARCINOGENIC EFFECTS: Classified A4 (Not classifiable for human or animal.) by ACGIH [Ethanol]. DEVELOPMENTAL TOXICITY: Classified Reproductive system/toxin/female, Reproductive system/toxin/male [PROVEN] [Ethanol].
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 t birth defects in humans.
Special Remarks on Toxicity to Animals	No additional remark.
Special Remarks on Chronic Effects on Humans	Not available.
Special Remarks on Other Toxic Effects on Humans	Loss of consciousness and coma. If inhaled, ingested or absorbed, the liquid or vapors may cause CNS effects, including nausea, headache, dizziness and drawsiness. (Gamma-Butyrolactone)

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Section 12. Ecological Information

Ecotoxicity	Not available.
BOD5 and COD	Not available.
Biodegradable/OECD	Not available.
Mobility	Not available.
Products of Degradation	Not available.
Toxicity of the Products of Biodegradation	None known.
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.
Consult your local or regional authorities.	

Section 14. Transport Information

DOT Classification	CLASS 3: Flammable liquid.	
	FLAMMABLE LIQUIDS, N.O.S., 3, UN1993, II	
Marine Pollutant	Not available.	
Special Provisions for Transport	Not available.	
ADR/RID Classification	CLASS 3: Flammable liquid A.	
IMO/IMDG Classification	CLASS 3.2: Flammable liquid (Intermediate flashpoint group of liquids having a flashpoint of -18°C (0°F) up to, but not including, 23°C (73°F) c.c.).	
ICAO/IATA Classification	CLASS 3: Flammable liquid.	

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 were found. 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

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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.

International Lists

No products were found.

State Regulations

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

California prop. 65: This product contains the following ingredients for which the State of California has found to cause birth defects which would require a warning under the statute: Ethanol

Section 16. Other Information

Label Requirements

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.

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

Health	*	1
Fire Hazard		3
Reactivity		0
Personal Protection		H

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



References

-Manufacturer's Material Safety Data Sheet.

Other Special Considerations

Not available.

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Monday-Friday, 830-500pm, 513-779-7300 EST.
CHEMTREC - 1-800-9300 - 24 hours.

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.