

**SAFETY DATA SHEET**

NEW



Date Issued : 4/18/2014

MSDS No : 3025

**3:1 Ethyl Acetate/Ethanol Solution****1. PRODUCT AND COMPANY IDENTIFICATION****PRODUCT NAME:** 3:1 Ethyl Acetate/Ethanol Solution**PRODUCT CODE:** 3025**MANUFACTURER**

Distributed by Tarr Acquisition, LLC

4115 W. Turney Ave.

Phoenix, AZ 85019

**Service Number:** 602-233-2000**24 HR. EMERGENCY TELEPHONE NUMBERS****CANUTEC (Canadian Transportation) :**(613) 996 - 6666**CHEMTREC (US Transportation) :**(800) 424 - 9300**2. HAZARDS IDENTIFICATION****GHS CLASSIFICATIONS****Physical:**

Flammable Liquids

**GHS LABEL**Exclamation  
mark

Flame

**SIGNAL WORD:** DANGER**HAZARD STATEMENTS**

H225: Highly flammable liquid and vapour.

H319: Causes serious eye irritation.

**PRECAUTIONARY STATEMENT(S)****General:**

P210: Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

P233: Keep container tightly closed.

P312: Call a POISON CENTER or doctor/physician if you feel unwell.

P370+P378: P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

P242: Use only non-sparking tools.

P403+P233: Store in a well-ventilated place. Keep container tightly closed.

P264: Wash skin thoroughly after handling.

### 3:1 Ethyl Acetate/Ethanol Solution

#### EMERGENCY OVERVIEW

**IMMEDIATE CONCERNS:** WARNING! Flammable liquid and vapor. Harmful or fatal if swallowed. Vapor harmful. May cause central nervous system depression. May be irritating to eyes and skin.

#### POTENTIAL HEALTH EFFECTS

**EYES:** Liquid is moderately irritating to the eyes. High vapor concentrations may also be irritating. Direct contact with the liquid or exposure to its vapors or mists may cause stinging, tearing, redness, swelling and eye damage.

**SKIN:** Liquid is mildly irritating to the skin. Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).

**INGESTION:** Ingestion of excessive quantities may cause irritation of the digestive tract and signs of nervous system depression (headache, drowsiness, dizziness, loss of coordination and fatigue).

**INHALATION:** May cause mild irritation to the nose, throat and respiratory tract and may result in central nervous system (CNS) depression.

**MEDICAL CONDITIONS AGGRAVATED:** Preexisting diseases in or history of ailments involving skin, central nervous system, liver and kidney.

**TARGET ORGAN STATEMENT:** Blood, Central Nervous System, Kidney, Liver

**CANCER STATEMENT:** This material is not listed as a carcinogen by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP), or the Occupational Safety and Health Administration (OSHA).

**IRRITANCY:** Causes eye irritation and slight skin irritation.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Vol. %	CAS
Ethyl Acetate	75	141-78-6
Ethanol	25	64-17-5

### 4. FIRST AID MEASURES

**EYES:** Immediately flush eyes with plenty of water for at least 15 minutes while holding eyelids open. Get medical attention.

**SKIN:** Flush skin with water while removing contaminated clothing. If irritation occurs, get medical attention. Do not reuse clothing or shoes until cleaned.

**INGESTION:** DO NOT INDUCE VOMITING. Do not attempt to give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs. Get medical attention.

**INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, oxygen should be administered by qualified personnel. Seek immediate medical attention.

#### SIGNS AND SYMPTOMS OF OVEREXPOSURE

**ACUTE TOXICITY:** Shortness of breathing, confused behavior, redness of skin, swelling of tissues, watery eyes, and nausea.

### 5. FIRE FIGHTING MEASURES

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**FLAMMABLE CLASS:** Class IB flammable liquid.

**EXTINGUISHING MEDIA:** Use "alcohol resistant" foam, dry chemical, or CO<sub>2</sub>. Water may be ineffective, but water applied as a spray can absorb some of the fire's heat and should be used to keep fire-exposed containers cool.

**HAZARDOUS COMBUSTION PRODUCTS:** Carbon monoxide and unidentified organic compounds may be formed during combustion.

**EXPLOSION HAZARDS:** When heated above the flash point, this material emits flammable vapors which, when mixed with air, can burn or be explosive. Fine mists or sprays may be flammable at temperatures below the flash point.

**FIRE FIGHTING PROCEDURES:** WARNING! Flammable Liquid. Clear fire area of unprotected personnel. Do not enter confined fire space without full bunker gear, including a positive pressure NIOSH approved SCBA. Cool fire exposed containers with water.

## 6. ACCIDENTAL RELEASE MEASURES

**SMALL SPILL:** Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Eliminate sources of ignition.

### ENVIRONMENTAL PRECAUTIONS

**WATER SPILL:** Stop leak. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

**GENERAL PROCEDURES:** WARNING. Flammable. Ventilate area of leak or spill. Remove all sources of ignition. Clean-up personnel require protective clothing and respiratory protection from vapors. Only specially trained or qualified personnel should handle the emergency.

## 7. HANDLING AND STORAGE

**GENERAL PROCEDURES:** Keep away from heat, sparks, and flame. Surfaces that are hot may ignite even liquid product in the absence of sparks or flame. Extinguish pilot lights, cigarettes and turn off other sources of ignition prior to use and until all vapors are gone.

**HANDLING:** Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Wash hands thoroughly with soap and water after handling.

**ELECTROSTATIC ACCUMULATION HAZARD:** Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy.

**COMMENTS:** KEEP OUT OF REACH OF CHILDREN! Empty containers retain product residue (liquid and/or vapor) and can be dangerous. Do not pressurize, cut weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks static electricity, or other sources of ignition; they may explode and cause injury or death.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**3:1 Ethyl Acetate/Ethanol Solution****EXPOSURE GUIDELINES**

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)							
		EXPOSURE LIMITS					
		OSHA PEL		ACGIH TLV		Supplier OEL	
Chemical Name		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Ethyl Acetate	TWA	400 <sup>[1]</sup>	1400 <sup>[1]</sup>	400	1440	NL	NL
	STEL					NL	NL
Ethanol	TWA	1000	1900	1000	1884	400	980
	STEL					400	1,225

**OSHA TABLE COMMENTS:**  
1. US OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910-1000)

**ENGINEERING CONTROLS:** Provide exhaust ventilation sufficient to keep the airborne concentration of this product below its exposure limits. Exhaust air may need to be cleaned by scrubbers or filters to reduce environmental contamination.

**PERSONAL PROTECTIVE EQUIPMENT**

**EYES AND FACE:** Use chemical safety goggles and/or full face shield where splashing is possible. Contact lenses should not be worn when working with this material. Maintain eye wash fountain and quick-drench facilities in work areas.

**SKIN:** Wear resistant gloves (consult your safety equipment supplier). To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

**RESPIRATORY:** If exposure may or does exceed occupational exposure limits (Sec. 8) use a NIOSH approved respirator to prevent overexposure. In accord with 29 CFR 1910.134 use either an atmosphere-supplying respirator or an air-purifying respirator for organic vapors.

**PROTECTIVE CLOTHING:** Where splashing is possible, full chemically resistant protective clothing (e.g., acid suit) and boots are required.

**WORK HYGIENIC PRACTICES:** Use good personal hygiene when handling this product. Wash hands after use, before eating, drinking, smoking, or using the toilet.

**OTHER USE PRECAUTIONS:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**PHYSICAL STATE:** Liquid

**ODOR:** Sweet, ester.

**APPEARANCE:** Clear

**COLOR:** Water-white.

**pH:** NA = Not Applicable

**PERCENT VOLATILE:** 100

**FLASHPOINT AND METHOD:** Between 24 deg F (-4 deg C) of ethyl acetate and 56 deg F (13.3 deg C) of

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ethanol.

**FLAMMABLE LIMITS:** 2 %Vol to 19 %Vol

**AUTOIGNITION TEMPERATURE:** Between 685 deg F and 800 deg F, that being the auto-ignition temperature of the two components.

**VAPOR PRESSURE:** Between 44.6 mm Hg for ethanol component and 73.0 mm Hg for the ethyl acetate component at 20 deg C.

**VAPOR DENSITY:** Heavier than air.

**BOILING POINT:** 171 - 173 deg F

**FREEZING POINT:** Between -119 deg F for ethyl acetate component and -173 deg F for ethanol component.

**MELTING POINT:** No data available.

**SOLUBILITY IN WATER:** Soluble

**EVAPORATION RATE:** Slower than ether.

**DENSITY:** 7.315 at 15.5°C (60°F)

**SPECIFIC GRAVITY:** ~ 0.877 15.5°C/60°F

**(VOC):** 7.315 LBS./gal.

**10. STABILITY AND REACTIVITY**

**STABLE:** Yes

**HAZARDOUS POLYMERIZATION:** No

**STABILITY:** Avoid heat, flame, and other sources of ignition.

**POLYMERIZATION:** Will not occur.

**CONDITIONS TO AVOID:** Avoid heat, sparks, flame. Direct sunlight.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon monoxide, Carbon dioxide

**INCOMPATIBLE MATERIALS:** Strong oxidizing agents, strong acids, strong alkalies.

**11. TOXICOLOGICAL INFORMATION****ACUTE**

**EYES:** Ethyl acetate: Eye irritation (rabbit): slight

**DERMAL LD<sub>50</sub>:** > 20 mL/kg (rabbit)

**Notes:** Results are for Ethyl acetate. Highest dose tested.

**INHALATION LC<sub>50</sub>:** 16000 (Results are for Ethyl acetate) ppm/6 hours, Rat

**CARCINOGENICITY**

**Notes:** Neither component is listed as carcinogenic by ACGIH, IARC, NIOSH, NTP, or OSHA.

**TARGET ORGANS:** This product contains ethanol. Alcoholic beverage consumption has been associated with brain damage, heart damage, and pancreatitis in humans. The relevance of these findings to ethanol exposure in industrial environments is uncertain.

**12. ECOLOGICAL INFORMATION**

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**ECOTOXICOLOGICAL INFORMATION:** Avoid uncontrolled releases of this material. Where spills are possible, a comprehensive spill response plan should be developed and implemented.

**BIOACCUMULATION/ACCUMULATION:** Bioaccumulation is unlikely.

**13. DISPOSAL CONSIDERATIONS**

**DISPOSAL METHOD:** The preferred options for disposal are to send to licensed reclaimers, or to permitted incinerators. Any disposal practice must be in compliance with federal, state, and local regulations. Do not dump into sewers, ground, or any body of water.

**EMPTY CONTAINER: KEEP OUT OF REACH OF CHILDREN!** Empty containers retain product residue and can be dangerous. Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse. Do not pressurize, cut weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks static electricity, or other sources of ignition.

**RCRA/EPA WASTE INFORMATION:** Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

**14. TRANSPORT INFORMATION****DOT (DEPARTMENT OF TRANSPORTATION)**

**PROPER SHIPPING NAME:** Flammable Liquids, N.O.S. (Ethyl Acetate, Ethanol)

**PRIMARY HAZARD CLASS/DIVISION:** 3

**UN/NA NUMBER:** UN 1993

**PACKING GROUP:** II

**NAERG:** 127

**REPORTABLE QUANTITY (RQ) UNDER CERCLA:** 5000 lbs RQ for ethyl acetate is 5,000 lbs. To reach that RQ you would have to spill 6666 lbs of this product.

**LABEL:** Flammable liquid

**MARINE POLLUTANT #1:** No

**MARINE POLLUTANT #2:** No

**15. REGULATORY INFORMATION****UNITED STATES****SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)**

**311/312 HAZARD CATEGORIES:** This product should be reported as an immediate (acute) health hazard, delayed (chronic) health hazard, and a fire hazard.

**FIRE:** Yes **PRESSURE GENERATING:** No **REACTIVITY:** No **ACUTE:** Yes **CHRONIC:** Yes

**313 REPORTABLE INGREDIENTS:** To the best of our knowledge, chemicals in this product are not listed as toxic chemicals under Section 313 of SARA Title III.

**302/304 EMERGENCY PLANNING**

**EMERGENCY PLAN:** To the best of our knowledge, this product is not listed as an extremely hazardous

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substance.

**TSCA (TOXIC SUBSTANCE CONTROL ACT)**

**TSCA REGULATORY:** All components of this product are on the TSCA inventory or are exempt from TSCA Inventory requirements under CFR 40 CFR 720.30.

**TSCA STATUS:** All ingredients in this mixture are listed with TSCA.

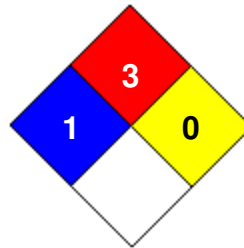
**16. OTHER INFORMATION**

**REASON FOR ISSUE:** New product.

**PREPARED BY:** Compliance

**HMIS RATING**

<b>HEALTH</b>	<input type="checkbox"/>	<b>2</b>
<b>FLAMMABILITY</b>	<input type="checkbox"/>	<b>3</b>
<b>PHYSICAL HAZARD</b>	<input type="checkbox"/>	<b>0</b>
<b>PERSONAL PROTECTION</b>	<input type="checkbox"/>	<b>H</b>

**NFPA CODES**

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