MATERIAL SAFETY DATA SHEET

Date Issued: 05/07/2008
MSDS No: 3040

HBB SOLVENT

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: HBB SOLVENT
PRODUCT CODE: 3040

MANUFACTURER

Tarr Acquisition, LLC
4115 W. Turney Ave.
Phoenix AZ 85019
Service Number: 602-233-2000

24 HR. EMERGENCY TELEPHONE NUMBERS

CHEMTREC (US Transportation) :(800) 424 - 9300
CANUTEC (Canadian Transportation) :(613) 996 - 6666

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

IMMEDIATE CONCERNS: WARNING! FLAMMABLE LIQUID AND VAPOR. HIGH VAPOR CONCENTRATIONS MAY CAUSE DROWSINESS AND IRRITATION OF THE EYES OR RESPIRATORY TRACT. PROLONGED OR REPEATED SKIN CONTACT MAY CAUSE DRYING, CRACKING, OR IRRITATION.

POTENTIAL HEALTH EFFECTS

EYES: Material may cause eye irritation. Direct contact with the liquid or exposure to its vapors or mists may cause stinging, tearing, redness.

SKIN: Irritating to skin. Repeated exposure may cause skin dryness or cracking.

INGESTION: Liquid is moderately toxic and may be harmful if swallowed; may product CNS depression. Ingestion of product may result in vomiting; aspiration (breathing) of vomitus into the lungs must be avoided as even small quantities may result in aspiration pneumonitis.

INHALATION: Vapors may be irritating to the nose, throat, and respiratory tract. Exposure to high vapor concentrations may cause central nervous system (CNS) depression.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

ACUTE TOXICITY: Contact may cause eye irritation and injury, skin irritation and respiratory tract irritation. May cause nausea, intoxication, central nervous system depression, headache, decreased blood rate, coma.

MEDICAL CONDITIONS AGGRAVATED: Preexisting eye, skin and respiratory disorders may be aggravated by exposure to this product.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
Acetic Acid Ethyl Ester	75 - 85	000141-78-6
2-Pentanone	15 - 25	000107-87-9

4. FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water for at least 15 minutes while holding eyelids open. Get medical attention, if irritation occurs or persists.

SKIN: Remove contaminated clothing/shoes. Flush skin with water for at least 15 minutes. Follow by washing with soap and water. If irritation occurs, get medical attention. Do not reuse clothing until cleaned.

INGESTION: Do not give liquids if victim is unconscious or drowsy. Otherwise, give 2 glasses of water or milk and induce vomiting immediately as directed by medical personnel. Keep victim's head below hips while vomiting. Call doctor.

INHALATION: Move to fresh air. Treat symptomatically. Get medical attention if symptoms persist.

5. FIRE FIGHTING MEASURES

FLASHPOINT AND METHOD: -4°C (24.8°F) Lowest flash of chemical constituents within product.

FLAMMABLE LIMITS: 1.5 to 8.0

AUTOIGNITION TEMPERATURE: 448.89°C (840°F) to 485°C (905°F)

EXTINGUISHING MEDIA: Use regular foam, water fog, carbon dioxide, dry chemical.

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

EXPLOSION HAZARDS: When heated above the flash point, releases flammable vapors. When mixed with air and exposed to ignition source, vapors can burn in open or explode if confined. Vapors may be heavier than air. May travel long distances along the ground before igniting and flashing back to vapor source. Fine sprays/mists may be combustible at temperatures below normal 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

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: Avoid breathing of or contact with material. Only use in well ventilated areas. Wash thoroughly after handling. For guidance on selection of personal protective equipment see Section 8 of this Material Safety Data Sheet. Use the information in this data sheet as input to risk assessment of local circumstances to help determine appropriate controls for safe handling storage and disposal of this material.

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

EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)							
		EXPOSURE LIMITS					
		OSHA PEL		ACGIH TLV		SupplierOEL	
Chemical Name		**ppm**	**mg/m³**	**ppm**	**mg/m³**	**ppm**	**mg/m³**
Acetic Acid Ethyl Ester	**TWA**	400 [1]	1400 [1]	400	1440	NL	NL
	STEL					NL	NL
2-Pentanone	**TWA**	200		200			
	STEL	250		250			
OSHA TABLE COMMENTS: **1**. US OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910-1000)							

ENGINEERING CONTROLS: Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. Local exhaust ventilation or an enclosed handling system may be needed to control airborne levels below recommended exposure limits.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

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-suppling 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.

COMMENTS: May be harmful or fatal if swallowed. May irritate body tissues. Use with adequate ventilation. Avoid breathing vapor. Do not get in eyes, on skin, on clothing. Wash thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

ODOR: Sweet, ester.

COLOR: Clear, colorless liquid.

VAPOR DENSITY: Heavier than air.

BOILING POINT: 78°C (172.4°F) to 105°C (221°F)

FREEZING POINT: -77.7°C (-108.0°F) to -83.0°C (-117.4°F)

FLASHPOINT AND METHOD: -4°C (24.8°F) Lowest flash of chemical constituents within product.

SOLUBILITY IN WATER: Moderate

EVAPORATION RATE: Faster than Butyl Acetate.

DENSITY: 7.36

SPECIFIC GRAVITY: 0.806 to 0.902 @ 20°C

10. STABILITY AND REACTIVITY

STABLE: Yes

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

POLYMERIZATION: None Expected.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide and unidentified organic compounds may be formed during combustion.

INCOMPATIBLE MATERIALS: Acids, oxidizers, halogens and halogen compounds, amines.

11. TOXICOLOGICAL INFORMATION

ACUTE

DERMAL LD_{50}: Dermal LD50 for Ethyl acetate: greater than 20 mL/kg (rabbit). Highest dose tested.

ORAL LD_{50}: Oral LD50 for ethyl acetate: 5600 mg/kg (rat).

INHALATION LC_{50}: 16000 ppm/6 hours, Rat
Notes: Ethyl Acetate: Inhalation LC50: 16000 ppm/6 hours, Rat

Methyl propyl ketone: Tests on laboratory animals indicate that methyl propyl ketone causes no central nervous system damage in animals.

EYE EFFECTS: Ethyl acetate: Slight irritation (rabbit).

SKIN EFFECTS: Skin irritation for Ethyl acetate: very slight (rabbit).

GENERAL COMMENTS: None identified.

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: Acute toxicity data ethyl acetate, if available, are listed below.
Oxygen Demand Data:
BOD-5: 1,240 mg/g
BOD-20: 1,240 mg/g
BOD-20: 1,430 mg/g

COD: 1,540 mg/g
ThBOD: 1,820 mg/g

Acute Aquatic Effects Data:
48 h LC-50 (golden orfe): 270 mg/l
48 h LC-50 (golden orfe): 333 mg/l
24 h LC-50 (daphnid): 3090 mg/l
24 h EC-50 (daphnid): 3090 mg/l

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. 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.

TECHNICAL NAME: (ethyl acetate, methyl propyl ketone)

PRIMARY HAZARD CLASS/DIVISION: 3

UN/NA NUMBER: UN 1993

PACKING GROUP: II

NAERG: 128

LABEL: Flammable liquid

OTHER SHIPPING INFORMATION: Important Note: Shipping descriptions may vary based on mode of transport, quantities, package size and/or origin and destination. Consult your company's Hazardous Materials/Dangerous Goods expert for information specific to your situation.

15. REGULATORY INFORMATION

UNITED STATES

DOT LABEL SYMBOL AND HAZARD CLASSIFICATION

Flammable liquid

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

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

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

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 substance.

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA STATUS: Listed.

16. OTHER INFORMATION

PREPARED BY: Compliance Dept.

REVISION SUMMARY: New MSDS

HMIS RATING

HEALTH:	**1**
FLAMMABILITY:	**3**
PHYSICAL HAZARD:	**0**
PERSONAL PROTECTION:	

HMIS RATINGS NOTES: The HMIS rating involves data interpretations that may vary from company to company. They are intended only for rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of this material, all the information contained in the MSDS must be considered.

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