

**MATERIAL SAFETY DATA SHEET****Ethyl acetate**

MSDS Name:	Ethyl acetate
Synonyms:	Acetic acid ethyl ester
Company Identification:	Hazel Mercantile Limited
Company Identification: (INDIA)	701, Embassy Centre , Nariman Point , Mumbai – 400 021
For information in the INDIA, call:	+91-22-2282 4444 (50 Lines)

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name:	%	EINECS#
141-78-6	Ethyl acetate	>99%	205-500-4

Hazard Symbols:	XI F
	
Risk Phrases:	11 36 66 67

Section 3 - Hazards Identification**EMERGENCY OVERVIEW**

Highly flammable. Irritating to eyes. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.

Potential Health Effects

Eye:	Causes eye irritation. Vapors may cause eye irritation.
Skin:	Causes skin irritation. May be harmful if absorbed through the skin. Repeated or prolonged exposure may cause drying and cracking of the skin.
Ingestion:	Aspiration hazard. May cause irritation of the digestive tract. May be harmful if swallowed.
Inhalation:	Causes respiratory tract irritation. Inhalation of high concentrations may cause narcotic effects. May be harmful if inhaled. Inhalation of vapors may cause drowsiness and dizziness.
Chronic:	Prolonged or repeated skin contact may cause defatting and dermatitis. May cause liver and kidney damage. Prolonged exposure may produce a narcotic effect.

Section 4 - First Aid Measures

Eyes:	Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
Skin:	Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists.
Ingestion:	Possible aspiration hazard. Get medical aid. Wash mouth out with water. Vomiting may occur spontaneously. If vomiting occurs and the victim is conscious, give water to further dilute the chemical.
Inhalation:	Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.
Notes to Physician:	Treat symptomatically and supportively.



Section 5 - Fire Fighting Measures

General Information:	As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Vapors may form an explosive mixture with air. Vapors can travel to a source of ignition and flash back. Will burn if involved in a fire. Containers may explode in the heat of a fire. Flammable liquid and vapor.
Extinguishing Media:	Use water spray to cool fire-exposed containers. Use foam, dry chemical, or carbon dioxide. Water may be ineffective.

Section 6 - Accidental Release Measures

General Information:	Use proper personal protective equipment as indicated in Section 8.
Spills/Leaks:	Avoid runoff into storm sewers and ditches which lead to waterways. Wear a self contained breathing apparatus and appropriate personal protection. (See Exposure Controls, Personal Protection section). Remove all sources of ignition. Absorb spill using an absorbent, non-combustible material such as earth, sand, or vermiculite. Do not use combustible materials such as sawdust. Use a spark-proof tool.

Section 7 - Handling and Storage

Handling:	Use spark-proof tools and explosion proof equipment. Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes. Take precautionary measures against static discharges. Avoid ingestion and inhalation.
Storage:	Keep away from sources of ignition. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Flammables-area.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls:	Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.
Exposure Limits	<p>CAS# 141-78-6:</p> <p>United Kingdom, WEL - TWA: 200 ppm TWA United Kingdom, WEL - STEL: 400 ppm STEL</p> <p>United States OSHA: 400 ppm TWA; 1400 mg/m3 TWA</p> <p>Belgium - TWA: 400 ppm VLE; 1461 mg/m3 VLE</p> <p>France - VME: 400 ppm VME; 1400 mg/m3 VME</p> <p>Germany: 400 ppm TWA; 1500 mg/m3 TWA</p> <p>Japan: 200 ppm OEL; 720 mg/m3 OEL</p> <p>Malaysia: 400 ppm TWA; 1440 mg/m3 TWA</p> <p>Netherlands: 300 ppm STEL; 1100 mg/m3 STEL Netherlands: 150 ppm MAC; 550 mg/m3 MAC</p> <p>Russia: 50 mg/m3 TWA (vapour)</p> <p>Spain: 400 ppm VLA-ED; 1460 mg/m3 VLA-ED</p>

Personal Protective Equipment

Eyes:	Wear chemical splash goggles.
Skin:	Wear appropriate protective gloves to prevent skin exposure.
Clothing:	Wear appropriate protective clothing to prevent skin exposure.
Respirators:	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.



Section 9 - Physical and Chemical Properties

Physical State:	Clear liquid
Color:	APHA: 15 max
Odor:	sweet, fruity odor
pH:	Not available
Vapor Pressure:	103mbar @20 deg C
Viscosity:	0.45 cP @20 deg C
Boiling Point:	75 - 77.5 deg C @760mmHg
Freezing/Melting Point:	-83.5 deg C (-118.30°F)
Autoignition Temperature:	427 deg C (800.60 deg F)
Flash Point:	-4 deg C (24.80 deg F)
Explosion Limits: Lower:	2 Vol %
Explosion Limits: Upper:	12 Vol %
Decomposition Temperature:	Not available
Solubility in water:	80 g/l (20°C)
Specific Gravity/Density:	0.902
Molecular Formula:	C4H8O2
Molecular Weight:	88.11

Section 10 - Stability and Reactivity

Chemical Stability:	Moisture sensitive.
Conditions to Avoid:	Incompatible materials, light, ignition sources, exposure to air, excess heat, exposure to moist air or water.
Incompatibilities with Other Materials	Strong oxidizing agents, strong acids, strong bases, alkali metals, fluorine, nitrates, plastics, chlorosulfonic acid, oleum, potassium tert-butoxide.
Hazardous Decomposition Products	Carbon monoxide, carbon dioxide, ethyl alcohol, acetic acid.
Hazardous Polymerization	Will not occur.

Section 11 - Toxicological Information

RTECS#:	CAS# 141-78-6: AH5425000
LD50/LC50:	RTECS: CAS# 141-78-6: Inhalation, mouse: LC50 = 45 gm/m3/2H; Inhalation, rat: LC50 = 200 gm/m3; Oral, mouse: LD50 = 4100 mg/kg; Oral, rabbit: LD50 = 4935 mg/kg; Oral, rat: LD50 = 5620 mg/kg; Skin, rabbit: LD50 = >20 microL/kg;
Carcinogenicity:	Ethyl acetate - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
Other:	See actual entry in RTECS for complete information.

Section 12 - Ecological Information

Ecotoxicity:	Daphnia: 2500 mg/l; 96H; LC50 Fish: Gold orfe: 270 mg/l; 48H; LC50
Other:	Biodegradable. This chemical is not likely to bioconcentrate. Avoid entering into waters or underground water. log Pow: 0.66Biodegradability:100%/28D aerobic 2mg/L (OECD 301 D)BOD5=1240mgO2/LCOD=1540mg/LBOD5/COD=0.81



Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - Transport Information

	IATA	IMO	RID/ADR
Shipping Name:	ETHYL ACETATE	ETHYL ACETATE	ETHYL ACETATE
Hazard Class:	3	3	3
UN Number:	1173	1173	1173
Packing Group:	II	II	II

USA RQ: CAS# 141-78-6: 5000 lb final RQ; 2270 kg final RQ

Section 15 - Regulatory Information

European/International Regulations
European Labeling in Accordance with EC Directives
Hazard Symbols: XI F
Risk Phrases:
➤ R 11 Highly flammable.
➤ R 36 Irritating to eyes.
➤ R 66 Repeated exposure may cause skin dryness or cracking.
➤ R 67 Vapours may cause drowsiness and dizziness.
Safety Phrases:
➤ S 16 Keep away from sources of ignition - No smoking.
➤ S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
➤ S 33 Take precautionary measures against static discharges.
WGK (Water Danger/Protection)
➤ CAS# 141-78-6: 1
Canada
➤ CAS# 141-78-6 is listed on Canada's DSL List
US Federal
➤ TSCA
➤ CAS# 141-78-6 is listed on the TSCA Inventory.

Section 16 - Other Information

MSDS Creation Date:	September 16, 2007
Revision #0 Date	

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