

Samuel Banner & Co. Ltd.**SAFETY DATA SHEET****ETHYL ACETATE****1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY**

PRODUCT NAME: ETHYL ACETATE
PART No.: 0373
APPLICATIONS: Solvent
SUPPLIER: SAMUEL BANNER & Co Ltd
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2 COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT NAME	EINECS No.	CAS No.	CONTENTS	SYMBOL	RISK (R No.)
ETHYL ACETATE	205-500-4	141-78-6	100 %	F, Xi	36, 66, 67, 11

The full text for all R-phrases are shown in section 16

EU INDEX No.: 607-022-00-5
FORMULA: C4-H8-O2
CAS No: 141-78-6

3 HAZARDS IDENTIFICATION

Highly flammable
 Repeated exposure may cause skin dryness or cracking
 Vapours may cause drowsiness and dizziness

4 FIRST AID MEASURES

INHALATION: Move the exposed person to fresh air at once. Perform artificial respiration if breathing has stopped. Keep the affected person warm and at rest. Get prompt medical attention.
INGESTION: Rinse mouth thoroughly. DO NOT induce vomiting. Get medical attention immediately. If breathing stops or shows signs of failing, apply artificial respiration. Give water to drink.
SKIN: Remove affected person from source of contamination. Promptly flush contaminated skin with water. Promptly remove clothing if soaked through and flush the skin with water. Get medical attention if irritation persists after washing.
EYES: Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.

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5 FIRE FIGHTING MEASURES

- EXTINGUISHING MEDIA:** Alcohol resistant foam Carbon dioxide (CO₂). Dry chemicals sand dolomite etc
- SPECIAL FIRE FIGHTING PROCEDURES:** Keep run-off water out of sewers and water sources Dike for water control Cool containers exposed to flames with water until well after the fire is out Use water spray to reduce vapours. If risk of water pollution occurs, notify appropriate authorities
- UNUSUAL FIRE & EXPLOSION HAZARDS:** May explode in a fire May develop highly toxic or corrosive fumes if heated May explode when heated or when exposed to flames or sparks May travel considerable distance to source of ignition and flash back Vapour explosion and poison hazard indoors, outdoors and in sewers
- HAZARDOUS DECOMPOSITION PRODUCTS:** Toxic gases/vapors/fumes of: Carbon monoxide (CO) Carbon dioxide (CO₂) Irritating gases/vapors/fumes of: phosphides
- PROTECTIVE MEASURES IN FIRE:** Wear suitable respiratory protection when dealing with a fire Wear fully protective suit

6 ACCIDENTAL RELEASE MEASURES

- PERSONAL PRECAUTIONS DURING SPILL:** Vapour may cause drowsiness and dizziness Repeated exposure can cause skin dryness and cracking Ensure good ventilation Avoid breathing vapour Use respiratory protection if vapours are released Wear appropriate protective clothing and respiratory protection
- PRECAUTIONS TO PROTECT ENVIRONMENT:** Do not let the product or washing down water enter natural water courses or the sewers Inform relevant authorities if this occurs
- SPILL CLEANUP METHODS:** Extinguish all ignition sources Avoid sparks, flames heat and smoking Ventilate Clean-up personnel should use respiratory and/or liquid contact protection Absorb in vermiculite, dry sand or earth and place into containers

7 HANDLING AND STORAGE

- USAGE PRECAUTIONS:** Keep away from heat, sparks and open flame Avoid spilling skin and eye contact Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level. Avoid acids, moisture, and combustible materials. Wear full protective clothing for prolonged exposure and/or high concentrations. Keep in tightly closed, clearly labelled containers
- USAGE DESCRIPTION:** Storage tanks must be positioned within bunded area.
- STORAGE PRECAUTIONS:** Flammable/combustible - Keep away from oxidizers, heat and flames May attack some plastics, rubber and coatings. Keep in cool, dry, ventilated storage and closed containers. Ground container and transfer equipment to eliminate static electric sparks.
- STORAGE CRITERIA:** Flammable liquid storage

8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

INGREDIENT NAME	CAS No	STD	LT EXP (8 hrs)	ST EXP (15 min)
ETHYL ACETATE	141-78-6	OES	400 ppm	

PROTECTIVE EQUIPMENT:



- PROCESS CONTROL MEASURES:** Use engineering controls to reduce air contamination to permissible exposure level Provide eyewash station Wash all splashes from the skin immediately.
- VENTILATION:** Provide adequate general and local exhaust ventilation
- RESPIRATORS:** CCROVF, CCR with organic vapour respirator and full facepiece
- PROTECTIVE GLOVES:** For exposure of 4 to 8 hours use gloves made of: Butyl rubber Polyvinyl alcohol (PVA) P T F E (Teflon) Ensure gloves are manufactured/tested in accordance with BS EN 374. Determined penetration times carried out in accordance with EN 374 part III are not performed under practical conditions Therefore a maximum wearing time corresponding to 50% of the penetration time is recommended

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EYE PROTECTION:	Wear splash-proof eye goggles to prevent any possibility of eye contact. Ensure safety glasses conform to EN 166
OTHER PROTECTION:	Use engineering controls to reduce air contamination to permissible exposure level. Provide eyewash, quick drench. Wear appropriate clothing to prevent any possibility of skin contact. Impervious clothing, gloves and minimum 8 inches face shield
HYGIENIC WORK ROUTINES:	Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes wet. Promptly remove any clothing that becomes wet. Contaminated clothing to be placed in closed container until disposal or decontamination. Warn cleaning personnel of chemical's hazardous properties.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Liquid	COLOUR:	Colourless.
ODOUR/TASTE:	Fruity. Characteristic.		
SOLUBILITY DESCRIPTION:	Slightly soluble in water. Soluble in: Organic solvents (most). Decomposes in water.		
SOLUBILITY VALUE (g/100g H₂O/20°C):	7.94	MOL WEIGHT (AT WT):	88.12
BOILING POINT (°C):	77	MELTING POINT (°C):	-82
SPECIFIC GRAVITY (Water=1):	0.90 @ 20 °C	VAPOUR DENSITY (air=1):	3.4
VAPOUR PRESSURE:	9.72 kPa @ 20 °C	EVAPORATION RATE:	8.02
VISCOSITY:	0.49 cSt @ 20 °C	ODOUR THRESHOLD (lower):	50.00 ppm
ODOUR THRESHOLD (upper):	ppm	FLASH POINT (°C):	-4
FLASH POINT METHOD:	PM Closed cup		
AUTO IGNITION TEMPERATURE (°C):	425	FLAMMABILITY LIMIT (lower %):	2.20
FLAMMABILITY LIMIT (upper %):	11		
PARTITION COEFF. (Water/Octanol):	0.66		

10 STABILITY AND REACTIVITY

STABILITY:	Unstable. Avoid: Heat, sparks, flames. Moisture. Contact with acids. Contact with alkalis.
MATERIALS TO AVOID:	AMMONIUM HYDROXIDE, ANTIMONY PENTAFLUORIDE, CHLOROSULPHONIC ACID, OLEUM, POTASSIUM-tert-BUTOXIDE, TRICHLOROACETIC ACID. Bases, alkalies (inorganic). Strong oxidizing agents. Inorganic nitrates.
HAZARDOUS DECOMPOSITION PRODUCTS:	Toxic gases/vapours/fumes of: Carbon monoxide (CO). Irritating gases/vapours/fumes of: Phosphides of: Carbon dioxide (CO ₂).

11 TOXICOLOGICAL INFORMATION

TOXIC DOSE1- LD50:	5600.00 mg/kg (oral rat)
HEALTH WARNINGS:	Gas or vapour is harmful on prolonged exposure or in high concentration. This chemical may cause skin/eye irritation and burns (corrosive). Irritant of eyes and mucous membranes. Toxic through skin absorption (percutaneous). Narcotic effect. CNS depressant. Repeated exposure may cause chronic eye irritation. Swallowing concentrated chemical may cause severe internal injury. Liver and/or kidney damage. Unconsciousness. death. Acute eczematous dermatitis.
ROUTE OF ENTRY:	Inhalation. Ingestion. Skin and/or eye contact.
TARGET ORGANS:	Central nervous system. Eyes. Gastro-intestinal tract. Kidneys. Liver. Respiratory system, lungs. Skin.
MEDICAL SYMPTOMS:	Extreme irritation of eyes and mucous membranes, including burning and tearing. Dilated pupils. Rhinitis (inflammation of the nasal mucous membranes). Upper respiratory irritation. General respiratory distress. unproductive cough. May cause suffocation. Severe skin irritation. Nausea, vomiting. Unconsciousness, possibly death. Central nervous system depression. Drowsiness. dizziness, disorientation. vertigo. Behavioral changes. Hypotension (low blood pressure). Dizziness.
MEDICAL CONSIDERATIONS:	Skin disorders and allergies. Liver and/or kidney problems. Convulsive disorders. CNS problems.

12 ECOLOGICAL INFORMATION

ENVIRONMENTAL HAZARDS:	No information available.
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13 DISPOSAL CONSIDERATIONS

GENERAL/CLEANING: Contaminated packages must be completely emptied before sending away for laundering and re-use.

DISPOSAL METHODS: Incinerate in suitable combustion chamber. Absorb in vermiculite or dry sand dispose in licensed special waste. Confirm disposal procedures with environmental engineer and local regulations. Do not cut, puncture or weld on or near to the container. Do not incinerate closed containers. EWC Number: Allocation of a waste code number in accordance with the European Waste catalogue, should be carried out in agreement with an EA authorised waste disposal company.

14 TRANSPORT INFORMATION

LABEL FOR CONVEYANCE:



ROAD:

UN No:	1173	ADR CLASS No:	3
HAZARD CLASS (ADR):	Class 3: Flammable liquids	ADR LABEL No:	3
ADR PACK GR:	3(b)	CEFIC TEC(R) No:	76
HAZCHEM CODE:	3YE		

RAIL:

RAIL TRANSPORT CLASS No:	3	RID PACK GR:	3a
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SEA:

SEA TRANSPORT CLASS No:	3.2	IMDG Page No:	3320
SEA PACK GR:	II		

AIR:

AIR TRANSPORT CLASS No:	3	AIR PACK GR:	II
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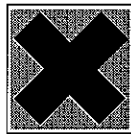
15 REGULATORY INFORMATION

EEC (EINECS) No.: 205-500-4

LABEL FOR SUPPLY:



HIGHLY FLAMMABLE



IRRITANT

RISK PHRASES:

R-36	Irritating to eyes.
R-66	Repeated exposure may cause skin dryness or cracking
R-67	Vapours may cause drowsiness and dizziness
R-11	Highly flammable

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

16 OTHER INFORMATION

USER NOTES:

For further Health and Safety information contact: Health and Safety Officer. Since emptied containers retain product residue follow label warnings even after container is emptied. Residual vapours may explode on ignition; do not cut, drill, grind or weld on or near this container. Labels should not be removed from containers until they have been cleaned and

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no product remains within

REVISION COMMENTS: Amendment to section/s :- (1), (2), (16) Classification Packaging and Labelling of Chemicals: CHIP 3

REVISION DATE: 23/01/03

REVISION No. /REPLACES SDS ISSUED: 3-31/05/00

SDS No.: 0373

R-PHRASES (Full Text): 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 DATA SHEET STATUS: Approved

DATE: 23/01/03

SIGNATURE: D.Dalton

DISCLAIMER

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