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MATERIAL SAFETY DATA SHEET (MSDS)

ETHYL ACETATE AR

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name : ETHYL ACETATE AR

Product code : SS0102802500

Identification of the product : Ethyl acetate
 CAS No :141-78-6
 EC No :205-500-4
 Annex No :607-022-00-5

Chemical formula : C₄H₈O₂

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use : Industrial. For professional use only.

1.3. Details of the supplier of the safety data sheet

Company identification : SUVCHEM
 Chaitanya Tower, 2nd Floor, Office # 206,
 Siddharth Nagar, S.V. Road,
 Goregaon (West), Mumbai - 400062,
 Maharashtra, India.
 Contact: +91 22 28725393 / 94 / 95
 Email ID: info@suvchem.com/care@suvchem.com

1.4. Emergency telephone number

Phone no. : + 91 22 28725393 / 94 / 95 (9:00am - 6:00 pm) [Office hours]

2. Hazards identification -DSD

2.1. Classification of the substance or mixture

Classification EC 67/548 or EC 1999/45

Classification : F; R11
 R66
 R67
 Xi; R36

Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

Health hazards : Specific Target Organ Toxicity - Single exposure - Narcotic effects - Category 3 -
 Warning (CLP : STOT SE 3) H336
 Acute toxicity, Inhalation - Category 4 - Warning (CLP : Acute Tox. 4) H332
 Eye irritation - Category 2A - Warning (CLP : Eye Irrit. 2) H319

MATERIAL SAFETY DATA SHEET (MSDS)
ETHYL ACETATE AR
2. Hazards identification -DSD (continued)

Physical hazards : Flammable liquids - Category 2 - Danger (CLP : Flam. Liq. 2) H225

2.2. Label elements
Labelling EC 67/548 or EC 1999/45
Symbol(s)

Symbol(s)

: F : Highly flammable
 Xi : Irritant

R Phrase(s)

: R11 : Highly flammable.
 R36 : Irritating to eyes.
 R66 : Repeated exposure may cause skin dryness or cracking.
 R67 : Vapours may cause drowsiness and dizziness.

S Phrase(s)

: S2 : Keep out of the reach of children.
 S16 : Keep away from sources of ignition - No smoking.
 S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 S33 : Take precautionary measures against static discharges.

Contains

: Ethyl acetate

Labelling Regulation EC 1272/2008 (CLP)
Hazard pictograms

Signal words

: Danger

Hazard statements

: H225 : Highly flammable liquid and vapour.
 H319 : Causes serious eye irritation.
 H332 : Harmful if inhaled.
 H336 : May cause drowsiness or dizziness.

Precautionary statements
• General

: P102: Keep out of reach of children.
 P103: Read label before use.
 P101: If medical advice is needed, have product container or label at hand.

• Prevention

: P240: Ground/bond container and receiving equipment.
 P241: Use explosion-proof electrical, ventilating, lighting, ..., equipment.
 P210: Keep away from heat, sparks, open flames or hot surfaces. - No smoking.
 P280: Wear protective gloves, protective clothing, eye protection, face protection.
 P271: Use only outdoors or in a well-ventilated area.
 P261: Avoid breathing dust, fume, gas, mist, vapours, spray.
 P233: Keep container tightly closed.
 P264: Wash thoroughly after handling.

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MATERIAL SAFETY DATA SHEET (MSDS)

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2. Hazards identification -DSD (continued)

- **Response** : P305+P351+P338: IF IN EYES : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P304+P340: IF INHALED : Remove to fresh air and keep at rest in a position comfortable for breathing.
 P303+P361+P353: IF ON SKIN (or hair) : Remove immediately all contaminated clothing. Rinse skin with water/shower.
 P337+P313: If eye irritation persists: Get medical advice/attention.
 P370+P378: In case of fire: Use for extinction.
- **Storage** : P403+P233: Store in well-ventilated place. Keep container tightly closed.
 P403+P235: Store in well-ventilated place. Keep cool.
 P405: Store locked up.
- **Disposal considerations** : P501: Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
- Contains** : Ethyl acetate

2.3. Other hazards

- Other hazards** : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

3. Composition/information on ingredients

Substance / Preparation : Ethyl acetate
 CAS No :141-78-6
 EC No :205-500-4
 Annex No :607-022-00-5
 Substance.

Substance name	Contents	CAS No	EC No	Annex No	REACH Ref.	Classification
Ethyl acetate	100 %	141-78-6	205-500-4	607-022-00-5	----	F: R11 R66 R67 Xi: R36
						Flam. Liq. 2 _ H225 Acute Tox. 4 (inhal) _ H332 Eye irrit 2 _ H319 STOT SE 3 _ H336 STOT RE _ EUH066

Contains no other components or impurities which will influence the classification of the product.

4. First aid measures

4.1. Description of first aid measures

- Inhalation** : Call a POISON CENTER or doctor if you feel unwell. Remove to fresh air and keep at rest in a position comfortable for breathing.
- Skin contact** : Wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing.

MATERIAL SAFETY DATA SHEET (MSDS)
ETHYL ACETATE AR
4. First aid measures (continued)

- Eye contact** : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists : Get medical advice.
- Ingestion** : Obtain emergency medical attention. Rinse mouth. Do NOT induce vomiting.

4.2. Most important symptoms and effects, both acute and delayed

- Symptoms relating to use** : Danger of serious damage to health by prolonged exposure through inhalation. Causes serious eye irritation. May cause drowsiness or dizziness. Repeated exposure may cause skin dryness or cracking.

4.3. Indication of any immediate medical attention and special treatment needed

- General information** : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

5. Fire-fighting measures
5.1. Extinguishing media

- Suitable extinguishing media** : Foam. Dry powder. Carbon dioxide. Water spray. Sand.
- Unsuitable extinguishing media** : Do not use a heavy water stream.
- Surrounding fires** : Use water spray or fog for cooling exposed containers.

5.2. Special hazards arising from the substance or mixture

- Flammable class** : Highly flammable liquid and vapour.
- Hazardous combustion products** : Under fire conditions, hazardous fumes will be present.

5.3. Advice for fire-fighters

- Protection against fire** : Do not enter fire area without proper protective equipment, including respiratory protection.
- Special procedures** : Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

6. Accidental release measures
6.1. Personal precautions, protective equipment and emergency procedures

- For emergency responders** : Equip cleanup crew with proper protection. Ventilate area. Avoid breathing dust, fume, gas, mist, vapours, spray.

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6. Accidental release measures (continued)

Technical measures	: Use special care to avoid static electric charges.
Special precautions	: Remove ignition sources. No naked lights. No smoking.
For non-emergency personnel	: Evacuate unnecessary personnel.

6.2. Environmental precautions

Environmental precautions	: Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.
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6.3. Methods and material for containment and cleaning up

Clean up methods	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.
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6.4. Reference to other sections

See section 8. Exposure controls/personal protection

7. Handling and storage
7.1. Precautions for safe handling

Handling	: Handle empty containers with care because residual vapours are flammable. Wash thoroughly after handling. Avoid breathing dust, fume, gas, mist, vapours, spray. Use only outdoors or in a well-ventilated area.
Technical protective measures	: Provide good ventilation in process area to prevent formation of vapour. Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof electrical, ventilating, lighting, ..., equipment.
Special precautions	: No naked lights. No smoking. Avoid breathing dust, fume, gas, mist, vapours, spray.

7.2. Conditions for safe storage, including any incompatibilities

Storage	: Keep only in the original container in a cool, well ventilated place. Keep in fireproof place. Ground/bond container and receiving equipment. Keep container tightly closed.
Storage - away from	: Strong bases. Strong acids. Sources of ignition. Direct sunlight. Heat sources.

7.3. Specific end use(s)

Specific end use(s)	: None.
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MATERIAL SAFETY DATA SHEET (MSDS)
ETHYL ACETATE AR
8. Exposure controls/personal protection
8.1. Exposure controls

Personal protection	: Avoid all unnecessary exposure.
• Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment. Where exposure through inhalation may occur from use, respiratory protection equipment is recommended.
• Hand protection	: Wear protective gloves.
• Eye protection	: Chemical goggles or safety glasses.
• Others	: When using, do not eat, drink or smoke.

8.2. Control parameters

Occupational Exposure Limits	: No data available.
VLA-ED [ppm]	: 400
VLA-ED [mg/m³]	: 1460
OEL (UK)-LTEL [ppm]	: 200
OEL (UK)-STEL [ppm]	: 400

9. Physical and chemical properties
9.1. Information on basic physical and chemical properties

Physical state at 20 °C	: Liquid.
Colour	: Clear Colorless
Odour	: Fruity odor
Odour threshold	: No data available.
pH value	: No data available.
Melting point [°C]	: -84
Decomposition point [°C]	: 4260C
Critical temperature [°C]	: N/A
Auto-ignition temperature [°C]	: N/A
Flammability (solid, gas)	: Flammable. Highly flammable liquid and vapour.
Flash point [°C]	: -40C
Boiling point [°C]	: 770C
Initial boiling point [°C]	: N/A
Final boiling point [°C]	: N/A
Evaporation rate	: 6
Vapour pressure [20°C]	: N/A
Vapour pressure mm/Hg	: 73.7 (20° C)

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9. Physical and chemical properties (continued)

Vapour density	: 3
Density [g/cm ³]	: 0.914
Relative density, gas (air=1)	: 3
Relative density, liquid (water=1)	: N/A
Solubility in water [% weight]	: 8.5 (20° C)
Solubility in water	: N/A
Log Pow octanol / water at 20°C	: No data available.
Solubility	: N/A
Viscosity at 40°C [mm ² /s]	: N/A

9.2. Other information

Explosive properties	: N/A
Explosion limits - upper [%]	: 12
Explosion limits - lower [%]	: 2
Oxidising properties	: No data available.

10. Stability and reactivity
10.1. Reactivity

Reactivity	: Not established.
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10.2. Chemical stability

Chemical stability	: Stable under recommended storage conditions.
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10.3. Possibility of hazardous reactions

Hazardous reactions	: Not established.
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10.4. Conditions to avoid

Conditions to avoid	: Direct sunlight. Extremely high or low temperatures. Open flame.
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10.5. Incompatible materials

Materials to avoid	: Strong acids. Strong bases.
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10.6. Hazardous decomposition products

Hazardous decomposition products	: Fumes. Carbon monoxide. Carbon dioxide. May release flammable gases.
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MATERIAL SAFETY DATA SHEET (MSDS)
ETHYL ACETATE AR
11. Toxicological information
11.1. Information on toxicological effects
Acute toxicity

- Inhalation : Harmful if inhaled.
- Dermal : Based on available data, the classification criteria are not met.
- Ingestion : Based on available data, the classification criteria are not met.

Corrosion

: Based on available data, the classification criteria are not met.

Irritation

 : Causes serious eye irritation.
 Repeated exposure may cause skin dryness or cracking.

Sensitization

: Based on available data, the classification criteria are not met.

Mutagenicity

: Based on available data, the classification criteria are not met.

Carcinogenicity

: Based on available data, the classification criteria are not met.

Toxic for reproduction

: Based on available data, the classification criteria are not met.

STOT-single exposure

: May cause drowsiness or dizziness.

STOT-repeated exposure

: Based on available data, the classification criteria are not met.

Aspiration hazard

: Based on available data, the classification criteria are not met.

12. Ecological information
12.1. Toxicity
Toxicity information : Not established.

WGK class (Germany) : 1

12.2. Persistence - degradability
Persistence - degradability : Biodegradable.

12.3. Bioaccumulative potential
Bioaccumulative potential : Not established.

12.4. Mobility in soil
Mobility in soil : Not established.

12.5. Results of PBT and vPvB assessment
Results of PBT and vPvB assessment : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

12.6. Other adverse effects

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MATERIAL SAFETY DATA SHEET (MSDS)
ETHYL ACETATE AR
12. Ecological information (continued)

Environmental precautions : Avoid release to the environment.

13. Disposal considerations
13.1. Waste treatment methods

General : Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations.
 Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Special precautions : Handle empty containers with care because residual vapours are flammable.

14. Transport information
14.1. Land transport (ADR-RID)

Proper shipping name : ETHYL ACETATE
UN N° : 1173
H.I. nr : 33
ADR - Class : 3
Labelling - Transport : 3 : Flammable liquid.



ADR - Classification code : F1
ADR - Group : II
ADR - Packing instructions : P001 R001
ADR - Limited Quantity : 1 L
ADR - Tunnel code : D/E : Bulk or tank carriage: Passage forbidden through tunnels of category D and E. Other carriage: Passage forbidden through tunnels of category E.


14.2. Sea transport (IMDG) [English only]

Proper shipping name : ETHYL ACETATE
UN N° : 1173

MATERIAL SAFETY DATA SHEET (MSDS)
ETHYL ACETATE AR
14. Transport information (continued)

IMO-IMDG - Class or division	: 3 : Flammable liquid.
IMO-IMDG - Packing group	: II
IMO- IMDG - Packing instructions	: P001
IMO-IMDG - Limited quantities	: 1 L
IMO-IMDG - Marine pollution	: No
EMS-Nr	: F-E S-D

14.3. Air transport (ICAO-IATA) [English only]

Proper shipping name	: ETHYL ACETATE
UN N°	: 1173
IATA - Class or division	: 3 : Flammable liquid.
IATA - Packing group	: II
IATA - Passenger and Cargo Aircraft	: ALLOWED
- Passenger and Cargo - Packing instruction	: 353
- Passenger and Cargo - Maximum Quantity/Packing	: 5 L
IATA - Cargo only	: ALLOWED
- Cargo only - Packing instruction	: 364
- Cargo only - Maximum Quantity/Packing	: 60 L
IATA - Limited Quantities	: 1 L
ERG-Nr	: 3L

15. Regulatory information
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Safety, health and environmental regulations/legislation specific for the substance or mixture	: Ensure all national/local regulations are observed.
REACH Restrictions - Annex XVII	: The components of this product are not subject to restrictions.
REACH Authorisation - Annex XIV	: The components of this product are not subject to authorization.

15.2. Chemical Safety Assessment

Chemical Safety Assessment	: It has not been carried out.
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MATERIAL SAFETY DATA SHEET (MSDS)

ETHYL ACETATE AR

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

DISCLAIMER:

- **SUVCHEM** Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
- **SUVCHEM** shall not be responsible for any damage resulting from handling or from contact with the above product.
- **SUVCHEM** provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

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