

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

**1.1 Product identifier**

|              |  |
|--------------|--|
| Product name | ETHYL ACETATE  |
| CAS-No.      | 141-78-6   |
| Product code | AH1071, AH1315, AR1070, GP1070, IR1070, LC1070, LV1070, PC1070, PS1070, RP1070 |

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

|                 |                                       |
|-----------------|---------------------------------------|
| Identified uses | Chemical for analysis and production. |
|-----------------|---------------------------------------|

**1.3 Details of the supplier of the safety data sheet**

|                  |   |
|------------------|---|
| Company          | RCI LABSCAN LIMITED.<br>24 Rama 1 Road, Pathumwan, Bangkok 10330 Thailand |
| Telephone number | (662) 613-7911-4  |
| Fax number       | (662) 613-7915  |

**1.4 Emergency Telephone Number**

|                 |                  |
|-----------------|------------------|
| Emergency phone | (662) 613-7911-4 |
|-----------------|------------------|

**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

**Classification according to Regulation (EC) No 1272/2008**

Flammable liquids (Category 2), H225

Eye irritation (Category 2), H319

Specific target organ toxicity - single exposure (Category 3), Central nervous system, H336

For the full text of the H-Statements mentioned in this Section, see Section 16.

**2.2 Label elements**

**Labelling according Regulation (EC) No 1272/2008**

Pictogram



|             |        |
|-------------|--------|
| Signal word | Danger |
|-------------|--------|

Hazard statement(s)

|        |   |
|--------|---|
| H225   | Highly flammable liquid and vapour.                   |
| H319   | Causes serious eye irritation.                        |
| H336   | May cause drowsiness or dizziness.                    |
| EUH066 | Repeated exposure may cause skin dryness or cracking. |

Precautionary statement(s)

|      |  |
|------|--|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P233 | Keep container tightly closed.   |
| P240 | Ground and bond container and receiving equipment.   |
| P242 | Use non-sparking tools.  |
| P243 | Take action to prevent static discharges.  |
| P261 | Avoid breathing fume/gas/mist/vapours/spray.   |

|                    |  |
|--------------------|--|
| P264               | Wash hand thoroughly after handling.   |
| P271               | Use only outdoors or in a well-ventilated area.  |
| P280               | Wear protective gloves/protective clothing/eye protection/face protection.   |
| P303 + P361 + P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].                         |
| P304 + P340        | IF INHALED: Remove person to fresh air and keep comfortable for breathing.   |
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P319               | Get medical help if you feel unwell.   |
| P337 + P317        | If eye irritation persists: Get medical help.  |
| P403 + P235        | Store in a well-ventilated place. Keep cool.   |
| P405               | Store locked up.   |

### 2.3 Other hazards

None

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Synonyms Acetic acid ethyl ester, acetic ether, vinegar naphtha.

| CAS-No   | EC-No     | EC-Index-No  | Formula  | Molecular Weight | Weight % |
|----------|-----------|--------------|--|------------------|----------|
| 141-78-6 | 205-500-4 | 607-022-00-5 | CH <sub>3</sub> COOC <sub>2</sub> H <sub>5</sub> | 88.11 g/mol      | <=100    |

### Hazardous ingredients according to Regulation (EC) No 1272/2008

| Component                | Concentration | Classification  |
|--------------------------|---------------|---|
| <b>Ethyl acetate</b>     |               |   |
| CAS-No 141-78-6          | <=100%        | Flammable liquids (Category 2), H225  |
| EC-No 205-500-4          |               | Eye irritation (Category 2), H319   |
| EC-Index-No 607-022-00-5 |               | Specific target organ toxicity - single exposure (Category 3), Central nervous system, H336 |

For the full text of the H-Statements mentioned in this Section, see Section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

|                |   |
|----------------|---|
| General advice | Show this safety data sheet to the doctor in attendance.  |
| Inhalation     | Move to fresh air in case of accidental inhalation of vapors. Keep patient warm. In case of shortness of breath, give oxygen. Apply artificial respiration only if patient is not breathing or under medical supervision. No artificial aspiration mouth to mouth or mouth to nose. Use suitable instruments/apparatus.   |
| Skin contact   | Remove contaminated clothing and wash affected skin with soap and water. If signs of poisoning appear, treat as for inhalation. Obtain medical attention. Wash contaminated clothing before reuse. Contaminated combustible material, e.g. clothing ignites more readily and burns fiercely.  |
| Eye contact    | If the substance has got into the eyes, immediately wash out with plenty of water at least 15 minutes. Obtain medical attention.  |
| Ingestion      | Rinse mouth. Do not induce vomiting. Keep patient warm. In case of shortness of breath, give oxygen. Apply artificial respiration only if patient is not breathing or under medical supervision. No artificial aspiration mouth to mouth or mouth to nose. Use suitable instruments/apparatus. Obtain medical attention. Never give anything by mouth to an unconscious person. |

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

The most important known symptoms and effects are described in section 2.2 and section 11

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

After swallowing, immediately make a victim drink plenty of water. Subsequently administer: Activate charcoal 20-40 g in 10% slurry. Risk of aspiration. Do not induce vomiting. Keep airways free. Laxative; Sodium sulfate 1 tablespoon/ 250ml of water, after ingestion of large. Indications for the doctor: After swallowing of large amounts: gastric lavage.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

##### Suitable extinguishing media

Extinguish with carbon dioxide, dry chemical or foam. In the event of fire, cool tanks with water spray.

#### 5.2 Special hazards arising from the substance or mixture

Vapors may form explosive mixture with air at ambient temperature. Flash back possible over considerable distance.

#### 5.3 Advice for firefighters

Wear self-contained breathing apparatus and protective suit.

#### 5.4 Further information

Standard procedure for chemical fires. Take measures to prevent electrostatic charging. Prevent firefighting water from entering surface water or groundwater.

### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe areas. Do not breathe vapors or spray mist. Wear a positive-pressure supplied-air respirator, flame retardant antistatic protective clothing. Shut off leaks if without risk. Keep people away from and upwind of spill/leak.

#### 6.2 Environmental precautions

Contain or absorb leaking liquid with sand or earth, consults an expert. Prevent liquid entering sewers, basements and workpits. If substance has entered a water course or sewer or contaminated soil, advise police.

#### 6.3 Methods and materials for containment and cleaning up

Spillage: May react with combustible substances creating fire or explosion hazard and formation of toxic fumes. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Soak up with inert absorbent material (e.g. sand, silica gel or chemical absorbent pads). Prevent liquid entering sewers, basements and workpits; vapor may create explosive atmosphere. Transfer to covered steel drums. Dispose of promptly.

#### 6.4 Reference to other sections

For disposal see **Section 13**.

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Keep container tightly closed. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Use only in area provided with appropriate exhaust ventilation. Do not breathe vapors or spray mist. Avoid contact with skin, eyes and clothing. Do not empty into drains.

## 7.2 Conditions for safe storage, including any incompatibilities

Keep tightly closed in a dry, cool and well ventilated place. Keep away from heat and sources of ignition. Keep out of direct sunlight and away from incompatible materials. Store in original container. Electrical equipment should be protected to the appropriate standard.

## 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

# SECTION 8: Exposure controls/personal protection

## 8.1 Control parameters

### Derived No Effect Level (DNEL)

| Application Area | Health Effects             | Exposure     | Value                  |
|------------------|----------------------------|--------------|------------------------|
| Worker           | Acute Local effects        | Inhalation   | 1468 mg/m <sup>3</sup> |
| Worker           | Acute Systemic effects     | Inhalation   | 1468 mg/m <sup>3</sup> |
| Worker           | Long-term Local effects    | Inhalation   | 734 mg/m <sup>3</sup>  |
| Worker           | Long-term Systemic effects | Inhalation   | 734 mg/m <sup>3</sup>  |
| Worker           | Long-term Systemic effects | Skin contact | 63 mg/kg Body weight   |
| Consumer         | Acute Local effects        | Inhalation   | 734 mg/m <sup>3</sup>  |
| Consumer         | Acute Systemic effects     | Inhalation   | 734 mg/m <sup>3</sup>  |
| Consumer         | Long-term Local effects    | Inhalation   | 367 mg/m <sup>3</sup>  |
| Consumer         | Long-term Systemic effects | Ingestion    | 4.5 mg/kg Body weight  |
| Consumer         | Long-term Systemic effects | Inhalation   | 367 mg/m <sup>3</sup>  |
| Consumer         | Long-term Systemic effects | Skin contact | 37 mg/kg Body weight   |

### Predicted No Effect Concentration (PNEC)

| Compartment          | Value       |
|----------------------|-------------|
| Fresh water          | 0.26 mg/l   |
| Fresh water sediment | 1.25 mg/kg  |
| Marine water         | 0.026 mg/l  |
| Marine sediment      | 0.125 mg/kg |
| Soil                 | 0.24 mg/kg  |

## 8.2 Exposure controls

### Appropriate engineering controls

The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Ventilation hoods and fans required when working with organic solvents or in hot melt applications.

### Individual protection measures (Personal protective equipment, PPE)

#### Eye/face protection

Goggles giving complete protection to eyes.

#### Skin protection

Chemical resistant apron / flame retardant antistatic protective clothing, heavy duty work shoes.

Handle with gloves

- Splash contact wears gloves from butyl rubber material.

The select protective gloves have to satisfy the specifications of EU Directive 89/686 EEC and standard EN 374 derived from it.

#### Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment. Required when vapor/aerosols are generated filter A (EN 141 or EN 14387).

#### Environmental exposure controls

Prevent liquid entering sewers, basements and workpits.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|   |  |
|---|--|
| Appearance: Form                        | Liquid   |
| : Color                                 | Colorless  |
| Odour                                   | Fruit like   |
| Odour Threshold                         | Not Available  |
| pH                                      | Not Available  |
| Melting point/range                     | -83 °C   |
| Boiling point/range                     | 77 °C at 1013 hPa  |
| Flash point                             | -4 °C (closed cup)                                       |
| Evaporation rate                        | Not Available  |
| Flammability (solid, gas)               | Not Available  |
| Explosion limits: lower                 | 2.1 % (V)  |
| upper                                   | 11.5 % (V)   |
| Vapor Pressure                          | 97 hPa at 20°C   |
| Relative Vapor Density                  | 3.04   |
| Density                                 | 0.900 g/ml at 20°C                                       |
| Water solubility                        | 85.3 g/l at 20°C   |
| Partition coefficient (n-octanol/water) | log Pow: 0.73  |
| Auto-Ignition temperature               | 460 °C   |
| Decomposition Temperature               | Not Available  |
| Viscosity                               | 0.44 mPa.s at 20°C                                       |
| Explosive properties                    | Not Explosive  |
| Oxidizing properties                    | The substance or mixture is not classified as oxidizing. |

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Heat-sensitive, light-sensitive, sensitive to air.

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

Risk of explosion in contact with: alkali metals, hydrides.

The substance can react dangerously with: strong oxidizing agents, fluorine, chlorosulphuric acid, potassium tert-butoxide, oleum.

### 10.4 Conditions to avoid

Heat, flames and sparks.

### 10.5 Incompatible materials

Alkali metals, fluorine, hydrides, strong oxidizing agents, water with air and light, fuming sulfuric acid, lithium aluminium hydride, chlorosulfonic acid.

Unsuitable working materials: various plastic.

### 10.6 Hazardous decomposition products

Carbon monoxides, Carbon dioxides (Hazardous decomposition products from under fire condition).

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

LD<sub>50</sub> (oral, rat): 5620 mg/kg.

LD<sub>50</sub> (dermal, rabbit): >18000 mg/kg.

#### Acute oral toxicity

Symptoms: mucosal irritations, lack of appetite, headache, drowsiness.

#### Acute inhalation toxicity

Mucosal irritations, lack of appetite.

#### Skin corrosion/irritation

After skin contact: drying out effect resulting in rough and chapped skin.

#### Serious eye damage/eye irritation

Irritations.

#### Respiratory or skin sensitization

Sensitization test (Guinea pig) is no sensitizing effect.

After long term exposure to the chemical: sensitization possible in predisposed person.

#### Germ cell mutagenicity

Bacterial mutagenicity; Ames test is negative.

#### Carcinogenicity

Not Available

#### Reproductive toxicity

Not Available

#### Teratogenicity

Not Available

#### Specific target organ toxicity (STOT) - single exposure

May cause drowsiness or dizziness.

#### Specific target organ toxicity (STOT) - repeated exposure

Not Available

#### Aspiration hazard

Not Available

#### Further information

After swallowing in high concentrations: salivation, nausea. Vomiting, narcosis, respiratory paralysis.

After accidental swallowing the substance may pose a risk of aspiration. Passage into the lung (vomiting) can result in a condition resembling pneumonia (chemical pneumonitis).

The product should be handled with the care usual when dealing with chemicals.

## SECTION 12: Ecological information

### 12.1 Toxicity

Toxicity to fish

LC<sub>50</sub> P. promelas : 230 mg/l/96h.

Toxicity to daphnia

EC<sub>50</sub> Daphnia magna: 717 mg/l /48h.

and other aquatic invertebrates

Toxicity to algae IC<sub>5</sub> Desmodemus subspicatus : 3300 mg/l/48h.  
 Toxicity to bacteria EC<sub>10</sub> Ps. Putida: 2900mg/l /16h.

### 12.2 Persistence and degradability

Biodegradability 100% /28d. Readily biodegradable

### 12.3 Bioaccumulative potential

Partition coefficient (n-octanol/water) log Pow: 0.73 (experimental).  
 No bioaccumulation is to be expected (log P o/w <1)

### 12.4 Mobility in soil

Not Available

### 12.5 Other adverse effects

Biological effects: Toxic effect on fish and plankton. When used properly, no impairments in the function of waste water treatment plants are to be expected.

Do not allow to enter waters, waste water or soil.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

There are no uniform EC Regulations for the disposal of chemicals or residues. Chemical residues generally count as special waste. The disposal of the latter is regulated in the EC member countries through corresponding law and regulations. We recommend that you contact either the authorities in charge or approved waste disposal companies which will advise you on how to dispose of special waste or burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Observe all federal, state, and local environmental regulations.

#### Contaminated packaging

Disposal in compliance with official regulations. Handle contaminated packaging as hazardous waste in the same way of the substance itself. If not officially specified differently, non-contaminated packaging may be treated like household waste or recycled.

## SECTION 14: Transport information

### Land Transport (ADR/RID)

|                              |               |
|------------------------------|---------------|
| UN Number                    | 1173          |
| UN proper shipping name      | ETHYL ACETATE |
| Transport hazard class(es)   | 3             |
| Packing group                | II            |
| Environmental hazards        | No            |
| Special precautions for user | Yes           |

### Sea transport (IMDG)

|                              |               |
|------------------------------|---------------|
| UN Number                    | 1173          |
| UN proper shipping name      | ETHYL ACETATE |
| Transport hazard class(es)   | 3             |
| Packing group                | II            |
| Marine pollutant             | No            |
| Special precautions for user | Yes           |
| EmS                          | F-E S-D       |

### Air transport (IATA)

|                         |               |
|-------------------------|---------------|
| UN Number               | 1173          |
| UN proper shipping name | ETHYL ACETATE |

|                              |    |
|------------------------------|----|
| Transport hazard class(es)   | 3  |
| Packing group                | II |
| Environmental hazards        | No |
| Special precautions for user | No |

**River transport (AND/ADNR)**  
(Not examined)

## SECTION 15: Regulatory information

This safety datasheet complies with the requirements of Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Not Available

### 15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

## SECTION 16: Other information

### Full text of H-Statements referred to under sections 2 and 3

|        |   |
|--------|---|
| H225   | Highly flammable liquid and vapour.                   |
| H319   | Causes serious eye irritation.                        |
| H336   | May cause drowsiness or dizziness.                    |
| EUH066 | Repeated exposure may cause skin dryness or cracking. |

### Recommended restrictions

Take notice of labels and safety data sheets for the working. Chemicals Take necessary action to avoid static electricity discharge.

### Reference

Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

Labelling according to EC Directives 67/548 EEC and Regulation (EC) No 1272/2008.

Transportation information according to Recommendations on the Transport of Dangerous Goods, Model Regulations. Twelfth revised edition. United Nations.

Institute for Occupational Safety and Health of the German Social Accident Insurance in Sankt Augustin/Germany,

Source: IFA for Databases on hazardous substances (GESTIS).

### Further information

Contact to RCI Labscan Limited.

### Revision Date

01/04/2021

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process unless specified in the text.