

# SAFETY DATA SHEET

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

**Product identifiers** 

Product name : Ethyl acetate

Product Number : F132 : F132 Catalogue No.

: Fidar Shimi Brand CAS-No. : 141-78-6

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

Identified uses : Reagent for analysis, Chemical production

Details of the supplier of the safety data sheet 1.3

> : Fidar Shimi Ramand Company

Websitre : www.FidarShimiRamand.com

Telephone : 02632504569

E-mail address : Fidarshimiramand@gmail.com

1.4 Emergency telephone

Emergency Phone : 09376573387

09125829128

#### **SECTION 2: Hazards identification**

Classification of the substance or mixture

Flammable liquids, (Category 2) H225: Highly flammable liquid and vapor.

H319: Causes serious eye irritation. Eye irritation, (Category 2)

Specific target organ toxicity -

single exposure, (Category 3),

H336: May cause drowsiness or dizziness.

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#### 2.2 Label elements

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

Pictogram

Signal Word Danger

**Hazard Statements** 

H319 Highly flammable liquid and vapor.
Causes serious eye irritation.
May cause drowsiness or dizziness.

**Precautionary Statements** 

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.

P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.

P242 Use non-sparking tools.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue

rinsing.

Supplemental Hazard information (EU)

EUH066 Repeated exposure may cause skin dryness or cracking.

Reduced Labeling (<= 125 ml)

Pictogram

Signal Word Danger Hazard Statements none

Precautionary Statements none

Supplemental Hazard information (EU)

EUH066 Repeated exposure may cause skin dryness or cracking.

#### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## Ecological information:

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. Toxicological information:

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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# **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances

Formula : C4H8O2 Molecular weight : 88,11 g/mol CAS-No. : 141-78-6 EC-No. : 205-500-4 Index-No. : 607-022-00-5

Component		Classification	Concentration
ethyl acetate			
CAS-No. EC-No. Index-No.	141-78-6 205-500-4 607-022-00-5	Flam. Liq. 2; Eye Irrit. 2; STOT SE 3; H225, H319, H336 Concentration limits: 20 %: STOT SE 3, H336;	<= 100 %

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 material safety data sheet to the doctor in attendance.

#### If inhaled

After inhalation: fresh air. Call in physician.

#### In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

#### In case of eye contact

After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

## If swallowed

After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

# 4.3 Indication of any immediate medical attention and special treatment needed No data available

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## **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

#### Suitable extinguishing media

Carbon dioxide (CO2) Foam Dry powder

## Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

## 5.2 Special hazards arising from the substance or mixture

Carbon oxides

Combustible.

Pay attention to flashback.

Vapors are heavier than air and may spread along floors.

Development of hazardous combustion gases or vapours possible in the event of fire. Forms explosive mixtures with air at ambient temperatures.

#### 5.3 Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.

#### **5.4** Further information

Remove container from danger zone and cool with water. Prevent fire extinguishing water from contaminating surface water or the ground water system.

#### **SECTION 6: Accidental release measures**

## 6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

#### 6.2 Environmental precautions

Do not let product enter drains. Risk of explosion.

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

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

# 6.4 Reference to other sections

For disposal see section 13.

## **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

#### Advice on safe handling

Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols.

## Advice on protection against fire and explosion

Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.

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#### **Hygiene measures**

Change contaminated clothing. Preventive skin protection recommended. Wash hands after working with substance.

For precautions see section 2.2.

## 7.2 Conditions for safe storage, including any incompatibilities

#### **Storage conditions**

Protected from light. Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition.

Recommended storage temperature see product label.

## Storage class

Storage class (TRGS 510): 3: Flammable liquids

## 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

# Ingredients with workplace control parameters

# **Derived No Effect Level (DNEL)**

Delived No Ellec	Derived no effect Level (DNEL)				
Application Area	Routes of exposure	Health effect	Value		
Worker DNEL, acute	inhalation	Systemic effects	1468 mg/m3		
Worker DNEL, acute	inhalation	Local effects	1468 mg/m3		
Worker DNEL, longterm	dermal	Systemic effects			
Worker DNEL, longterm	inhalation	Systemic effects	734 mg/m3		
Worker DNEL, longterm	inhalation	Local effects	734 mg/m3		
Consumer DNEL, acute	inhalation	Systemic effects	734 mg/m3		
Consumer DNEL, acute	inhalation	Local effects	734 mg/m3		
Consumer DNEL, longterm	dermal	Systemic effects			
Consumer DNEL, longterm	inhalation	Systemic effects	367 mg/m3		
Consumer DNEL, longterm	oral	Systemic effects			
Consumer DNEL, longterm	inhalation	Local effects	367 mg/m3		

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**Predicted No Effect Concentration (PNEC)** 

Compartment	Value
Fresh water	0,24 mg/l
Sea water	0,024 mg/l
Fresh water sediment	1,15 mg/kg
Sea sediment	0,115 mg/kg
Soil	0,148 mg/kg

## 8.2 Exposure controls

#### Personal protective equipment

## **Eye/face protection**

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

#### Skin protection

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell,

Internet: www.kcl.de).

Splash contact

Material: butyl-rubber

Minimum layer thickness: 0,7 mm Break through time: 120 min

Material tested:Butoject® (KCL 898)

#### **Body Protection**

Flame retardant antistatic protective clothing.

## **Respiratory protection**

Recommended Filter type: Filter A (acc. to DIN 3181) for vapours of organic

compounds

The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

## Control of environmental exposure

Do not let product enter drains. Risk of explosion.

## **SECTION 9: Physical and chemical properties**

## 9.1 Information on basic physical and chemical properties

a) Physical state liquidb) Color colorlessc) Odor fruity

d) Melting Melting point/freezing point: -83 °C

point/freezing point

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e) Initial boiling point 77,1 °C at 1.013 hPa and boiling range

Flammability (solid, No data available f) gas)

g) Upper/lower flammability or explosive limits Upper explosion limit: 11,5 %(V) Lower explosion limit: 2,1 %(V)

h) Flash point -4 °C - closed cup Autoignition No data available i) temperature

Distillable in an undecomposed state at normal pressure. Decomposition j)

temperature

k) pH No data available

Viscosity, kinematic: No data available Viscosity I) Viscosity, dynamic: No data available

m) Water solubility No data available

n) Partition coefficient: log Pow: 0,73 - Bioaccumulation is not expected., (Lit.) n-octanol/water

o) Vapor pressure No data available 0,90 g/cm3 at 20 °C p) Density Relative density No data available No data available q) Relative vapor

density

No data available

r) Particle characteristics

s) Explosive properties No data available

t) Oxidizing properties none

#### 9.2 Other safety information

Relative vapor 3,04 density

## **SECTION 10: Stability and reactivity**

# 10.1 Reactivity

Vapors may form explosive mixture with air.

#### 10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature).

#### 10.3 Possibility of hazardous reactions

Risk of ignition or formation of inflammable gases or vapours with: Exothermic reaction with:

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Fluorine
chlorosulfonic acid
Strong oxidizing agents
fuming sulfuric acid
Risk of explosion with:
lithium aluminium hydride
Alkali metals
hydrides
Alkaline earth metals
Violent reactions possible with:

Strong acids and strong bases

## 10.4 Conditions to avoid

Warming.

## 10.5 Incompatible materials

No data available

## 10.6 Hazardous decomposition products

In the event of fire: see section 5

# **SECTION 11: Toxicological information**

## 11.1 Information on toxicological effects

#### **Acute toxicity**

LD50 Oral - Rat - 5.620 mg/kg

Remarks: (RTECS)

Inhalation: No data available

LD50 Dermal - Rabbit - male - > 20.000 mg/kg

Remarks: (ECHA)

#### Skin corrosion/irritation

Skin - Rabbit

Result: No skin irritation Remarks: (IUCLID)

## Serious eye damage/eye irritation

Remarks: Causes serious eye irritation.

Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)

#### Respiratory or skin sensitization

Maximization Test - Guinea pig

Result: negative

(OECD Test Guideline 406)

#### Germ cell mutagenicity

Test Type: UDS (Unscheduled DNA synthesis assay)

Test system: Escherichia coli

Metabolic activation: with and without metabolic activation

Method: US-EPA Result: negative Test Type: Ames test

Test system: Salmonella typhimurium

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Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Test Type: Chromosome aberration test in vitro Test system: Chinese hamster ovary cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative

Test Type: Micronucleus test Species: Chinese hamster

Cell type: Red blood cells (erythrocytes)

Application Route: Oral

Method: OECD Test Guideline 474

Result: negative

## Carcinogenicity

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

# Reproductive toxicity

No data available

#### Specific target organ toxicity - single exposure

May cause drowsiness or dizziness. - Central nervous system

Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)

#### Specific target organ toxicity - repeated exposure

No data available

## **Aspiration hazard**

No data available

#### **11.2 Additional Information**

#### **Endocrine disrupting properties**

#### **Product:**

Assessment : The substance/mixture does not contain

components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Repeated dose toxicity - Rat - male and female - Oral - 92 Days - NOAEL (No observed adverse effect level) - 900 mg/kg - LOAEL (Lowest observed adverse effect level) - 3.600 mg/kg

Inhalation of high concentrations may cause:, Headache, Drowsiness, Dizziness, Vomiting, narcosis, anemia, Central nervous system depression

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Kidney - Irregularities - Based on Human Evidence

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# **SECTION 12: Ecological information**

# 12.1 Toxicity

Toxicity to fish flow-through test LC50 - Pimephales promelas (fathead minnow) -

230 mg/l - 96 h

(US-EPA)

static test NOEC - Desmodesmus subspicatus (green algae) - > 100 Toxicity to algae

mq/l - 72 h

(OECD Test Guideline 201)

Toxicity to bacteria Remarks: (IUCLID)

(ethyl acetate)

Toxicity to daphnia

semi-static test NOEC - Daphnia magna (Water flea) - 2,4 mg/l - 21

and other aquatic

invertebrates(Chronic (OECD Test Guideline 211)

toxicity)

## 12.2 Persistence and degradability

Biodegradability aerobic - Exposure time 20 d

Result: ca.69 % - Readily biodegradable.

Remarks: (ECHA)

Theoretical oxygen demand

1.820 mg/g Remarks: (Lit.)

## 12.3 Bioaccumulative potential

Bioaccumulation Leuciscus idus melanotus - 3 Days

at 22,5 °C(ethyl acetate)

Bioconcentration factor (BCF): 30

#### 12.4 Mobility in soil

No data available

#### 12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

#### 12.6 Endocrine disrupting properties

#### **Product:**

Assessment : The substance/mixture does not contain components

> considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

#### 12.7 Other adverse effects

No data available

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## **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

No data available

## **SECTION 14: Transport information**

14.1 UN number

ADR/RID: 1173 IMDG: 1173 IATA: 1173

14.2 UN proper shipping name

ADR/RID: ETHYL ACETATE IMDG: ETHYL ACETATE IATA: Ethyl acetate

14.3 Transport hazard class(es)

ADR/RID: 3 IMDG: 3 IATA: 3

14.4 Packaging group

ADR/RID: II IMDG: II IATA: II

14.5 Environmental hazards

ADR/RID: no IMDG Marine pollutant: no IATA: no

14.6 Special precautions for user

Tunnel restriction code : (D/E)

Further information : No data available

#### **SECTION 15: Regulatory information**

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

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

## Authorisations and/or restrictions on use

#### **National legislation**

Seveso III: Directive 2012/18/EU of the P5c FLAMMABLE LIQUIDS European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

## Other regulations

Take note of Dir 94/33/EC on the protection of young people at work.

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## **15.2 Chemical Safety Assessment**

A Chemical Safety Assessment has been carried out for this substance.

# **SECTION 16: Other information**

## **Full text of H-Statements**

H225 Highly flammable liquid and vapor.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

EUH066 Repeated exposure may cause skin dryness or cracking.

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