

| Ethyl acetate | | | | |
|---|------|---|---|------------|
| 34858-1L | | | | |
| Version 2.3 | | Revision Date 17.12.2022 | Su | persedes 1 |
| | | | | |
| | | | | |
| SECTION 1: Identification of the | e si | ubstance/mixture and of the co | mpany/undertaking | |
| 1.1. Product identifier | | | | |
| Product name | : | Ethyl acetate | | |
| SDS-number | : | 00000020226 | | |
| Type of product | : | Substance | | |
| Remarks | : | SDS according to Art. 31 of Re | gulation (EC) 1907/200 |)6. |
| Chemical name | : | ethyl acetate | | |
| Index-No. | : | 607-022-00-5 | | |
| REACH Registration Number | : | no data available | | |
| 1.2. Relevant identified use | es (| of the substance or mixture an | d uses advised again | st |
| Use of the Substance/Mixture | : | Laboratory chemicals | | |
| Uses advised against | : | none | | |
| 1.3. Details of the supplier | of | the safety data sheet | | |
| Company | : | Honeywell International Inc. 115 Tabor Road 07950-2546 Morris Plains USA | Honeywell Internatior 115 Tabor Road Morris Plains, NJ 079 USA | |
| Telephone For further information, please contact: | : | SafetyDataSheet@Honeywell. | com | |
| 1.4. Emergency telephone | nu | mber | | |
| Emergency telephone number Country based Poison Control Center | : | +1-703-527-3887 (ChemTrec-T +1-303-389-1414 (Medical) see chapter 15.1 | ransport) | |
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

REGULATION (EC) No 1272/2008

Flammable liquids Category 2 H225 Highly flammable liquid and vapour. Eye irritation Category 2 H319 Causes serious eye irritation. Specific target organ toxicity - single exposure Category 3 - Central nervous system H336 May cause drowsiness or dizziness.

2.2. Label elements

REGULATION (EC) No 1272/2008

Hazard pictograms



| Signal word | Danger | |
|--------------------------|----------------------------------|---|
| Hazard statements | : H225 H319 H336 EUH066 | Highly flammable liquid and vapour. Causes serious eye irritation. May cause drowsiness or dizziness. Repeated exposure may cause skin dryness or cracking. |
| Precautionary statements | : P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| | P243 | Take precautionary measures against static discharge. |
| | P260 | Do not breathe dust/ fume/ gas/ mist/ vapours/ spray. |
| | P280 | Wear protective gloves/ eye protection/ face protection. |
| | 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. |
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P308 + P313

Continue rinsing. IF exposed or concerned: Get medical advice/ attention.

2.3. Other hazards

Aspiration hazard if swallowed - can enter lungs and cause damage. May form explosive mixtures in air. Results of PBT and vPvB assessment, see chapter 12.5.

SECTION 3: Composition/information on ingredients

3.1. Substance

| Chemical name | CAS-No. Index-No. REACH Registration Number EC-No. | Classification 1272/2008 | Concentration | Remarks |
|---------------|--|--|---------------|---------|
| ethyl acetate | 141-78-6 607-022-00-5 205-500-4 | Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336; Central nervous system EUH066 | 100 % | |

3.2. Mixture

Not applicable

Occupational Exposure Limit(s), if available, are listed in Section 8. 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:

First aider needs to protect himself. Move out of dangerous area. Take off all contaminated clothing immediately.

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Inhalation:

In case of accident by inhalation: remove casualty to fresh air and keep at rest. If symptoms persist, call a physician.

Skin contact:

After contact with skin, wash immediately with plenty of soap and water. Call a physician if irritation develops or persists.

Eye contact:

Rinse immediately with plenty of water, also under the eyelids. Protect unharmed eye. Call a physician immediately.

Ingestion: When swallowed, allow water to be drunk. Do NOT induce vomiting. Call a physician immediately.

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

No data available

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

No data available

See Section 11 for more detailed information on health effects and symptoms.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Water spray Foam Carbon dioxide (CO2) Dry powder

Extinguishing media which shall not be used for safety reasons: High volume water jet

5.2. Special hazards arising from the substance or mixture

Flash back possible over considerable distance. Cool closed containers exposed to fire with water spray. In case of fire hazardous decomposition products may be produced such as: Carbon monoxide Carbon dioxide (CO2)

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective suit. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Evacuate personnel to safe areas. Do not breathe vapours or spray mist. Remove all sources of ignition.

6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so.

6.3. Methods and materials for containment and cleaning up

Soak up with inert absorbent material.

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Pick for disposal in tightly closed containers Use low-sparking handtools and explosion-proof electrical equipment

6.4. Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling: Exhaust ventilation at the object is necessary. Use explosion-proof equipment.

Advice on protection against fire and explosion:

The product is easily combustible. Vapours may form explosive mixtures with air. Flash back possible over considerable distance. Labeling danger zone "risk of explosion". Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Keep product and empty container away from heat and sources of ignition.

Hygiene measures:

Recommended preventive skin protection Keep working clothes separately. General industrial hygiene practice.

Temperature class: T2

7.2. Conditions for safe storage, including any incompatibilities

Further information on storage conditions: Keep only in the original container in a cool, well-ventilated place. Keep container dry. Do not leave vessels/containers open Keep away from heat. Keep away from direct sunlight.

Advice on common storage: Do not store together with: Oxidizing agents Acids Bases

7.3. Specific end use(s)

no additional data available

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits:

| Components | Basis / Value type | Value / Form of exposure | Exceeding Factor | Remarks |
|---------------|-----------------------|-----------------------------|---------------------|------------|
| ethyl acetate | EH40 WEL STEL | 400 ppm | | |
| ethyl acetate | EH40 WEL TWA | 200 ppm | | |
| ethyl acetate | EU ELV STEL | 1.468 mg/m3 400 ppm | | Indicative |
| ethyl acetate | EU ELV TWA | 734 mg/m3 200 ppm | | Indicative |
| ethyl acetate | EH40 WEL STEL | 1.468 mg/m3 400 ppm | | |
| ethyl acetate | EH40 WEL TWA | 734 mg/m3 200 ppm | | |

STEL - Short term exposure limit

TWA - Time weighted average

DNEL/ PNEC-Values

| Component | End- use/impact | Exposure duration | Value | Exposure routes | Remarks |
|---------------|---|-------------------|-----------------|-----------------|---------|
| ethyl acetate | Workers / Acute systemic effects | | 1468 mg/m3 | Inhalation | |
| ethyl acetate | Workers / Acute local effects | | 1468 mg/m3 | Inhalation | |
| ethyl acetate | Workers / Long-term systemic effects | | 734 mg/m3 | Inhalation | |
| ethyl acetate | Workers / Long-term | | 63mg/kg bw/d | Skin contact | |

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| | systemic effects | | | |
|---------------|---|-----------------|--------------|--|
| ethyl acetate | Workers / Long-term local effects | 734 mg/m3 | Inhalation | |
| ethyl acetate | Consumers / Acute systemic effects | 734 mg/m3 | Inhalation | |
| ethyl acetate | Consumers / Acute local effects | 734 mg/m3 | Inhalation | |
| ethyl acetate | Consumers / Long-term systemic effects | 367 mg/m3 | Inhalation | |
| ethyl acetate | Consumers / Long-term local effects | 367 mg/m3 | Inhalation | |
| ethyl acetate | Consumers / Long-term systemic effects | 37mg/kg bw/d | Skin contact | |

| Component | Environmental compartment / Value | Remarks |
|---------------|--------------------------------------|---------|
| ethyl acetate | Fresh water: 0,26 mg/l | |
| ethyl acetate | Soil: 0,22 mg/kg | |
| ethyl acetate | Sewage treatment plant: 650 mg/l | |
| ethyl acetate | Sediment: 0,34 mg/kg | |

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8.2. Exposure controls

Occupational exposure controls

The Personal Protective Equipment must be in accordance with EN standards:respirator EN 136, 140, 149; safety glasses EN 166; protective suit: EN 340, 463, 468, 943-1, 943-2; gloves EN 374, 511; safety shoes EN-ISO 20345.

Take off all contaminated clothing immediately.

Personal protective equipment

Respiratory protection:

In the case of vapour formation use a respirator with an approved filter.

Hand protection: Glove material: butyl-rubber Break through time: > 120 min Glove thickness: 0,7 mm Butoject® 898 Gloves must be inspected prior to use. Replace when worn. Remarks:Supplementary note: The specifications are based on information and tests from similar substances by analogy. Due to varying conditions (e.g.temperature or other strains) it must be considered that the usage of a chemical protective glove in practice may be much shorter than the permeation time determined in accordance with EN 374. Since actual conditions of practical use often deviate from standardised conditions according EN 374 the glove manufacturer reccomends to use the chemical protective glove in practice not longer than 50% of the recomended permeation time. Manufacturer's directions for use should be observed because of great diversity of types . Suitable gloves tested according EN 374 are supplied e.g. from KCL GmbH, D-36124 Eichenzell, Vertrieb@kcl.de

Eye protection: Safety goggles

Skin and body protection: Wear suitable protective equipment. Flame retardant antistatic protective clothing. Working clothes must not consist of textiles, which show a dangerous melting behaviour in case of fire.

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Environmental exposure controls

Handle in accordance with local environmental regulations and good industrial practices.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| Physical state | : | liquid |
|------------------------------|---|--|
| Colour | : | colourless |
| Odour | : | characteristic fruity |
| Melting point/range | : | -84 °C |
| Boiling point/boiling range | : | 77 °C at 1.013 hPa |
| Flammability | : | Not applicable |
| Upper explosion limit | : | 11,5 %(V) |
| Lower explosion limit | : | 2,1 %(V) |
| Flash point | : | -4 °C Method: closed cup |
| Auto-ignition temperature | : | 427 °C |
| Decomposition temperature | : | At normal pressure may be distilled without decomposition. |
| рН | : | No data available |
| Viscosity, kinematic | : | not determined |
| Water solubility | : | ca. 80 g/l at 20 °C |
| Solubility in other solvents | : | Soluble in most organic solvents |
| Partition coefficient: n- | : | log Pow 0,68 |
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octanol/water

| Vapour pressure | : | ca. 100 hPa at 20 °C |
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| Vapour pressure | : | 379 hPa at 50 °C |
| Density | : | 0,902 g/cm3 at 20 °C |
| Relative vapour density | : | ca. 3 (Air = 1.0) |

9.2 Other Information

| Oxidizing properties | : | The substance or mixture is not classified as oxidizing. |
|----------------------|---|--|
| Viscosity, dynamic | : | ca. 0,45 mPa.s at 20 °C |

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions.

10.2. Chemical stability

At normal pressure may be distilled without decomposition.

10.3. Possibility of hazardous reactions

Vapours may form explosive mixture with air.

10.4. Conditions to avoid

Keep away from heat and sources of ignition. Keep away from direct sunlight.

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10.5. Incompatible materials

Vapours may form explosive mixtures with air. Plastic materials can be attacked. Explosive reactions with oxidising agents such as potassium chlorate and/or peroxides.

10.6. Hazardous decomposition products

Acetic acid Flammable gases/vapours

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity: LD50 Species: Rabbit Value: 4.934 mg/kg Method: OECD Test Guideline 401

Acute dermal toxicity: LD50 Species: Rabbit Value: > 18.000 mg/kg

Acute inhalation toxicity: LC50 Species: Rat Value: 56 mg/l Exposure time: 4 h

Skin irritation: Species: Rabbit Classification: non-irritant Method: OECD Test Guideline 404

Eye irritation: Species: Rabbit Classification: non-irritant Method: OECD Test Guideline 405

Respiratory or skin sensitisation: Species: Guinea pig

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Classification: non-sensitizing Method: OECD Test Guideline 406

Aspiration hazard: No data available

11.2. Information on other hazards

Endocrine disrupting properties No data available

Other information: Not mutagenic in Ames Test Solvent vapours have a narcotic effect if inhaled in high concentrations. Solvents may degrease the skin. Prolonged skin contact may cause skin irritation.

SECTION 12: Ecological information

12.1. Toxicity

Toxicity to fish: LC50 Species: Salmo gairdneri Value: 230 mg/l Exposure time: 96 h

Toxicity to aquatic plants: NOEC Species: Desmodesmus subspicatus (green algae) Value: > 100 mg/l Exposure time: 72 h Method: OECD Test Guideline 201

EC50 Species: scenedesmus subspicatus Value: 3.300 mg/l Exposure time: 48 h

Toxicity to Microorganisms: EC10 Species: Pseudomonas putida

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Value: 650 mg/l Exposure time: 16 h Method: DIN 38412

Toxicity to aquatic invertebrates: EC50 Species: Daphnia magna (Water flea) Value: 3.090 mg/l Exposure time: 24 h Method: DIN 38412 NOEC Species: Daphnia magna (Water flea) Value: 2,4 mg/l Exposure time: 21 d

12.2. Persistence and degradability

Biodegradability: Biodegradation: 100 % Exposure time: 28 d Result: Readily biodegradable. Method: OECD 301 D

12.3. Bioaccumulative potential

Bioaccumulation is unlikely.

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

No data available

12.6. Endocrine disrupting properties

No data available

12.7. Other adverse effects

| Biochemical Oxygen | : | Value: | 293 mg/g |
|--|---|--------|------------|
| Demand (BOD) Chemical Oxygen Demand | : | Value: | 1.816 mg/g |
| (COD) | | | |

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| | | · · · |
| Do not flush into surfa | ice water or sanitary sewer system. | |
| CTION 13: Disposal co | onsiderations | |
| 13.1. Waste treatme | ent methods | |
| <i>Product:</i> Dispose according to | legal requirements. | |
| <i>Packaging:</i> Legal requirements a | re to be considered in regard of reuse or | disposal of used packaging materials |
| <i>Further information:</i> Provisions relating to EC Directive 2006/12 Regulation No. 1013/ | /EC; 2008/98/EEC | |
| For personal protection | on see section 8. | |
| CTION 14: Transport i | nformation | |
| 14.1 UN number ADR/RID:1173 | IMDG:1173 | IATA:1173 |
| 14.2 UN proper ship ADR/RID:ETHYL ACI IMDG:ETHYL ACETA IATA:Ethyl acetate | ETATE | |
| 14.3 Transport haza ADR/RID: 3 | rd class(es) IMDG: 3 | IATA: 3 |
| 14.4 Packaging grou ADR/RID: II | IMDG: II | IATA: II |
| 14.5 Environmental ADR/RID:no | hazards Marine pollutant: no | |
| 14.6 Special precaut No data available | tions for user | |
| 14.7 Maritime transp | oort in bulk according to IMO instrume | ents |
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No data available

SECTION 15: Regulatory information

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

| Basis | Value | Remarks |
|---|---|--|
| Directive 2012/18/EC SEVESO III Listed in Regulation : P5c: FLAMMABLE LIQUIDS Number in Regulation: 1.2.5.3 | Quantity: 5.000.000 kg Quantity: 50.000.000 kg | |
| Substances of very high concern (SVHC) | | This product does not contain substances of very high concern according to Regulation (EC) No Article 57 above the respective regulatory 1907/2006 (REACH), concentration limit of ≥ 0.1 % (w/w). |

Poison Control Center

| Country | Phone Number |
|----------------|------------------------------|
| Austria | +4314064343 |
| Belgium | 070 245245 |
| Bulgaria | (+)35929154233 |
| Croatia | (+3851)23-48-342 |
| Cyprus | +357 2240 5611 |
| Czech Republic | +420224919293; +420224915402 |
| Denmark | 82121212 |
| Estonia | 16662; (+372)6269390 |
| Finland | 9471977 |
| France | +33(0)145425959 |
| Greece | +30 210 779 3777 |
| Hungary | (+36-80)201-199 |
| Iceland | 5432222 |

| Country | Phone Number |
|-----------------|---|
| Liechtenstein | +41 442515151 |
| Lithuania | +370532362052 |
| Luxembourg | 070245245; (+352)80002-5500 |
| Malta | +356 2395 2000 |
| Netherlands | 030-2748888 |
| Norway | 22591300 |
| Poland | +48 42 25 38 400 |
| Portugal | 800250250 |
| Romania | +40 21 318 3606 |
| Slovakia (NTIC) | +421 2 54 774 166 |
| Slovenia | +386 1 400 6051 |
| Spain | +34915620420 |
| Sweden | 112 (begär Giftinformation);+46104566786 |

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(+44) 844 892 0111

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Switzerland

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| Ireland | +353(1)8092166 |
|---------|------------------------|
| Italy | 0382 24444 |
| Germany | Berlin : 030/19240 |
| | Bonn : 0228/19240 |
| | Erfurt : 0361/730730 |
| | Freiburg : 0761/19240 |
| | Göttingen : 0551/19240 |
| | Homburg : 06841/19240 |
| | Mainz : 06131/19240 |
| | Munich : 089/19240 |
| Latvia | +37167042473 |

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Other inventory information

US. Toxic Substances Control Act On TSCA Inventory

Australia. Inventory of Industrial Chemicals (AIIC), as amended On the inventory, or in compliance with the inventory

Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL) All components of this product are on the Canadian DSL

Japan. Kashin-Hou Law List On the inventory, or in compliance with the inventory

Korea. Existing Chemicals Inventory (KECI) On the inventory, or in compliance with the inventory

Philippines. Inventory of Chemicals and Chemical Substances (PICCS) On the inventory, or in compliance with the inventory

China. Inventory of Existing Chemical Substances (IECSC) On the inventory, or in compliance with the inventory

New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand On the inventory, or in compliance with the inventory

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Taiwan Chemical Substance Inventory (TCSI) On the inventory, or in compliance with the inventory

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

5

SECTION 16: Other information

Text of H-statements referred to under heading 3

ethyl acetate

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.

Further information

All directives and regulations refer to amended versions. Vertical lines in the left hand margin indicate a relevant amendment from the previous version.

Abbreviations: EC European Community CAS Chemical Abstracts Service DNEL Derived no effect level PNEC Predicted no effect level vPvB Very persistent and very biaccumulative substance

PBT Persistent, bioaccmulative und toxic substance

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 a 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. Final determination of suitability of any material is the sole responsibility of the user.

This information should not constitute a guarantee for any specific product properties.

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