SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Ethyl Acetate (099, 100)
MSDS Number : 000000011363
Product Use Description : Solvent

Manufacturer or supplier's details : Honeywell International Inc.
101 Columbia Road
Morristown, NJ 07962-1057

For more information call : 1-800-368-0050
+1-231-726-3171
(Monday-Friday, 9:00am-5:00pm)

In case of emergency call : Medical: 1-800-498-5701 or +1-303-389-1414
Transportation (CHEMTREC): 1-800-424-9300 or +1-703-527-3887
(24 hours/day, 7 days/week)

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview
Form : liquid, clear
Color : colourless
Odor : fruity

Classification of the substance or mixture
Classification of the substance or mixture : Flammable liquids, Category 2
Eye irritation, Category 2B
Specific target organ toxicity - single exposure, Category 3,
Central nervous system
GHS Label elements, including precautionary statements

Symbol(s) : ![Flammable Icon] ![Warning Icon]

Signal word : Danger

Hazard statements : Highly flammable liquid and vapour. Causes eye irritation. May cause drowsiness and dizziness.

Precautionary statements : **Prevention:**
- Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- Keep container tightly closed.
- Ground/bond container and receiving equipment.
- Use explosion-proof electrical/ventilating/lighting/equipment.
- Use only non-sparking tools.
- Take precautionary measures against static discharge.
- Avoid breathing dust/fume/gas/mist/vapours/spray.
- Wash skin thoroughly after handling.
- Use only outdoors or in a well-ventilated area.
- Wear protective gloves/eye protection/face protection.

**Response:**
- IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/shower.
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Call a POISON CENTER or doctor/physician if you feel unwell.
- If eye irritation persists: Get medical advice/attention.
- In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

**Storage:**
- Store in a well-ventilated place. Keep container tightly closed.
- Keep cool.
- Store locked up.
Disposal:
Dispose of contents/container to an approved waste disposal plant.

Carcinogenicity

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP, IARC, or OSHA.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl acetate</td>
<td>141-78-6</td>
<td>100.00 %</td>
</tr>
</tbody>
</table>

SECTION 4. FIRST AID MEASURES

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Use oxygen as required, provided a qualified operator is present. Call a physician.

Skin contact: Wash off immediately with plenty of water for at least 15 minutes. Take off contaminated clothing and shoes immediately. Wash contaminated clothing before re-use. Call a physician if irritation develops or persists.

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician.

Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. If victim is fully conscious, give a cupful of water. Call a physician.

Notes to physician
Treatment : Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Alcohol-resistant foam
Dry chemical
Carbon dioxide (CO2)
Cool closed containers exposed to fire with water spray.

Specific hazards during firefighting : Flammable.
Vapours may form explosive mixtures with air.
Vapours are heavier than air and may spread along floors.
Vapors may travel to areas away from work site before igniting/flashing back to vapor source.
In case of fire hazardous decomposition products may be produced such as:
Carbon monoxide
Carbon dioxide (CO2)

Special protective equipment for firefighters : Wear self-contained breathing apparatus and protective suit.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Wear personal protective equipment.
Immediately evacuate personnel to safe areas.
Keep people away from and upwind of spill/leak.
Ensure adequate ventilation.
Remove all sources of ignition.
Do not swallow.
Avoid breathing vapours, mist or gas.
Avoid contact with skin, eyes and clothing.

Environmental precautions : Prevent further leakage or spillage if safe to do so.
Prevent product from entering drains.
Discharge into the environment must be avoided.
Do not flush into surface water or sanitary sewer system.
Do not allow run-off from fire fighting to enter drains or water courses.

Methods for cleaning up : Ventilate the area.
No sparking tools should be used.
Use explosion-proof equipment.
Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

SECTION 7. HANDLING AND STORAGE

Handling

Handling : Wear personal protective equipment.
Use only in well-ventilated areas.
Keep container tightly closed.
Do not smoke.
Do not swallow.
Avoid breathing vapours, mist or gas.
Avoid contact with skin, eyes and clothing.

Advice on protection against fire and explosion : Keep away from fire, sparks and heated surfaces.
Take precautionary measures against static discharges.
Ensure all equipment is electrically grounded before beginning transfer operations.
Use explosion-proof equipment.
Keep product and empty container away from heat and sources of ignition.
No sparking tools should be used.
No smoking.

Storage

Requirements for storage areas and containers : Store in area designed for storage of flammable liquids.
Protect from physical damage.
Keep containers tightly closed in a dry, cool and well-ventilated place.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Keep away from heat and sources of ignition.
Keep away from direct sunlight.
Store away from incompatible substances.
Container hazardous when empty.
Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Protective measures: Ensure that eyewash stations and safety showers are close to the workstation location.

Engineering measures: Use with local exhaust ventilation. Prevent vapour buildup by providing adequate ventilation during and after use.

Eye protection: Do not wear contact lenses. Wear as appropriate:
- Safety glasses with side-shields
- If splashes are likely to occur, wear:
  - Goggles or face shield, giving complete protection to eyes

Hand protection: Solvent-resistant gloves
- Gloves must be inspected prior to use.
- Replace when worn.

Skin and body protection: Wear as appropriate:
- Solvent-resistant apron
- Flame retardant antistatic protective clothing
- If splashes are likely to occur, wear:
  - Protective suit

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment.
- For rescue and maintenance work in storage tanks use self-contained breathing apparatus.
- Use NIOSH approved respiratory protection.

Hygiene measures: When using do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product.
- Keep working clothes separately.
- Remove and wash contaminated clothing before re-use.
- Do not swallow.
- Avoid breathing vapours, mist or gas.
- Avoid contact with skin, eyes and clothing.

Exposure Guidelines

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Value</th>
<th>Control</th>
<th>Upda</th>
<th>Basis</th>
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</table>

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### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
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<tbody>
<tr>
<td>Physical state</td>
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<tr>
<td>Color</td>
<td>colourless</td>
</tr>
<tr>
<td>Odor</td>
<td>fruity</td>
</tr>
<tr>
<td>pH</td>
<td>Note: no data available</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>-84 °C</td>
</tr>
<tr>
<td>Boiling point/boiling range</td>
<td>77 °C</td>
</tr>
<tr>
<td>Flash point</td>
<td>25 °F (-4 °C)</td>
</tr>
<tr>
<td></td>
<td>Method: closed cup</td>
</tr>
</tbody>
</table>
Evaporation rate : ca. 5

Lower explosion limit : 2 % (V)
Upper explosion limit : 11.5 % (V)

Vapor pressure : 97 hPa
at 20 °C (68 °F)

Vapor density : 3 Note: (Air = 1.0)

Density : 0.9006 g/cm³ at 20 °C
0.8945 g/cm³ at 25 °C

Water solubility : ca. 90 g/l

Ignition temperature : 426 °C

Molecular weight : 88.11 g/mol

SECTION 10. STABILITY AND REACTIVITY

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : Hazardous polymerisation does not occur.
Conditions to avoid: Heat, flames and sparks. Keep away from direct sunlight.

Incompatible materials to avoid: Strong oxidizing agents, Acids, Bases.

Hazardous decomposition products: In case of fire hazardous decomposition products may be produced such as: Carbon monoxide, Carbon dioxide (CO2).

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity: LD50: 5,620 mg/kg Species: rat

Acute inhalation toxicity: LC50: > 22.5 mg/l > 6000 ppm Exposure time: 6 h Species: rat

Acute dermal toxicity: LD50: > 18,020 mg/kg Species: rabbit

Skin irritation: Species: rabbit Result: No skin irritation

Eye irritation: Species: rabbit Result: Mild eye irritation Method: OECD Test Guideline 405

SECTION 12. ECOLOGICAL INFORMATION
Ecotoxicity effects

Toxicity to fish
- LC50: 230 mg/l
- Exposure time: 96 h
- Species: Pimephales promelas (fathead minnow)

Toxicity to algae
- Growth inhibition
- NOEC: > 100 mg/l
- Exposure time: 72 h
- Species: Algae

Further information on ecology

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods
- Observe all Federal, State, and Local Environmental regulations.

SECTION 14. TRANSPORT INFORMATION

DOT
- UN/ID No.: UN 1173
- Proper shipping name: ETHYL ACETATE
- Class: 3
- Packing group: II
- Hazard Labels: 3

IATA
- UN/ID No.: UN 1173
- Description of the goods: ETHYL ACETATE
- Class: 3
- Packaging group: II
- Hazard Labels: 3
- Packing instruction (cargo aircraft): 364
- Packing instruction (passenger aircraft): 353
- Packing instruction (passenger aircraft): Y341

IMDG
- UN/ID No.: UN 1173
Description of the goods  :  ETHYL ACETATE
Class        :  3
Packaging group :  II
Hazard Labels :  3
EmS Number  :  F-E, S-D
Marine pollutant :  no

SECTION 15. REGULATORY INFORMATION

Inventories

US. Toxic Substances Control Act : On TSCA Inventory
Australia. Industrial Chemical (Notification and Assessment) Act : 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. Toxic Chemical Control Law (TCCL) List : On the inventory, or in compliance with the inventory
Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act : On the inventory, or in compliance with the inventory
China. Inventory of Existing Chemical Substances : 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

National regulatory information
### US. EPA CERCLA Hazardous Substances (40 CFR 302)

The following component(s) of this product is/are subject to release reporting under 40 CFR 302 when release exceeds the Reportable Quantity (RQ):

- **Reportable quantity:** 5000 lbs
  - **Ethyl acetate** 141-78-6

### SARA 302 Components

- SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

### SARA 313 Components

- SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### SARA 311/312 Hazards

- **Fire Hazard**
- **Acute Health Hazard**
- **Chronic Health Hazard**

### CERCLA Reportable Quantity

- 5000 lbs

### California Prop. 65

- This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

### WHMIS Classification

- **B2: Flammable liquid**
  - This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.
SECTION 16. OTHER INFORMATION

<table>
<thead>
<tr>
<th></th>
<th>HMIS III</th>
<th>NFPA</th>
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<tbody>
<tr>
<td>Health hazard</td>
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<td>1</td>
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<tr>
<td>Flammability</td>
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<td>3</td>
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<tr>
<td>Physical Hazard</td>
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<td>0</td>
</tr>
<tr>
<td>Instability</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* - Chronic health hazard

Hazard rating and rating systems (e.g. HMIS® III, NFPA): This information is intended solely for the use of individuals trained in the particular system.

Further information

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.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.
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Prepared by Honeywell Performance Materials and Technologies  Product Stewardship Group