1. IDENTIFICATION

Product name: 4-Methyl-2-pentyl Acetate
Product code: A1347
Product use: For laboratory research purposes.
Restrictions on use: Not for drug or household use.

Company:
TCI America
9211 N. Harborgate Street
Portland, OR 97203 U.S.A.
Telephone: +1-800-423-8616 / +1-503-283-1681
Fax: +1-888-520-1075 / +1-503-283-1987
e-mail: sales-US@TCIchemicals.com
www.TCIchemicals.com

Emergency telephone number:
Chemical Emergencies: TCI America (8:00am - 5:00pm) PST
+1-503-286-7624
Transportation Emergencies: Chemtrec 24-Hour
+1-800-424-9300 (U.S.A.)
+1-703-527-3887 (International)

Responsible department:
TCI America
Environmental Health Safety and Security
+1-503-286-7624

2. HAZARD(S) IDENTIFICATION

OSHA Haz Com: CFR 1910.1200:
WHMIS 2015:
Skin Corrosion/Irritation [Category 2]
Eye Damage/Irritation [Category 2B]
Specific Target Organ Toxicity (Single Exposure) [Category 3]
Flammable Liquids [Category 3]

Signal word: Warning!

Hazard Statement(s):
Flammable liquid and vapor
Causes skin irritation
Causes eye irritation
May cause respiratory irritation. May cause drowsiness or dizziness.

Pictogram(s) or Symbol(s):

Precautionary Statement(s):
[Prevention] Keep away from heat, sparks, open flames and hot surfaces. – No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof electrical, ventilating and lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing mist, vapors or spray. Use only outdoors or in a well-ventilated area. Wash hands and face thoroughly after handling. Wear protective gloves, eye protection.

[Response] If on skin: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice or attention. Take off contaminated clothing and wash it before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor if you feel unwell. If in eyes: 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 or attention. In case of fire: Use dry chemical, dry sand or foam to extinguish.

[Storage]

[Disposal]
Dispose of contents and container in accordance with local, regional, national regulations (e.g. US: 40 CFR Part 261, EU:91/156/EEC, JP: Waste Disposal and Cleaning Act, etc.).

Hazards not otherwise classified:
[HNOC] None.
3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Substance/mixture:</th>
<th>Substance</th>
</tr>
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<tbody>
<tr>
<td>Components:</td>
<td>4-Methyl-2-pentyl Acetate</td>
</tr>
<tr>
<td>Percent:</td>
<td>&gt;98.0%(GC)</td>
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<tr>
<td>CAS RN:</td>
<td>108-84-9</td>
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<tr>
<td>Molecular Weight:</td>
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<tr>
<td>Synonyms:</td>
<td>1,3-Dimethylbutyl Acetate, Acetic Acid 1,3-Dimethylbutyl Ester, Acetic Acid 4-Methyl-2-pentyl Ester</td>
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</table>

4. FIRST-AID MEASURES

**Description of first aid measures**

- **Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
- **Skin contact:** Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.
- **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/attention.
- **Ingestion:** Get medical advice/attention if you feel unwell. Rinse mouth.

**Symptoms/effects:**

- **Acute:** Dizziness. Redness. Drowsiness.
- **Delayed:** May have effects on the respiratory tract.

**Indication of any immediate medical attention:**

Not available.

**Notes to physician:**

No data available

5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media:** Dry chemical, foam, carbon dioxide.

**Unsuitable extinguishing media:** Water (It may scatter and spread fire.)

**Hazardous combustion products:** These products include: Carbon oxides

**Other specific hazards:** Closed containers may explode from heat of a fire.

**Advice for firefighters:** Wear self-contained breathing apparatus if possible.

6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:** Use extra personal protective equipment (self-contained breathing apparatus). Keep people away from upwind of spill/leak. Ensure adequate ventilation. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc.

**Environmental precautions:** Prevent product from entering drains.

**Methods and materials for containment and cleaning up:** Absorb spilled material in dry sand or inert absorbent before recovering it into an airtight container. In case of large amount of spillage, contain a spill by bunding. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

**Prevention of secondary hazards:** Remove all sources of ignition. Fire-extinguishing devices should be prepared in case of a fire. Use spark-proof tools and explosion-proof equipment.

7. HANDLING AND STORAGE

**Precautions for safe handling:** Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent generation of vapour or mist. Keep away from heat/sparks/open flame/hot surfaces. -No smoking. Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. Wash hands and face thoroughly after handling. Use a closed system if possible. Use a ventilation, local exhaust if vapour or aerosol will be generated. Avoid contact with skin, eyes and clothing.

**Conditions for safe storage, including any incompatibilities**

- **Storage conditions:** Keep container tightly closed. Store in a cool, dark and well-ventilated place.
  - Store locked up.
  - Store away from incompatible materials such as oxidizing agents.

**Packaging material:** Comply with laws.
8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits:
- ACGIH TLV(TWA): 50 ppm
- OSHA PEL(TWA): 50 ppm

Appropriate engineering controls: Follow safe industrial engineering/laboratory practices when handling any chemical. Install a closed system or local exhaust. Also install safety shower and eye bath.

Personal protective equipment
- Respiratory protection: Half or full facepiece respirator, self-contained breathing apparatus(SCBA), supplied air respirator, etc. Use respirators approved under appropriate government standards and follow local and national regulations.
- Hand protection: Impervious gloves.
- Eye protection: Safety goggles. A face-shield, if the situation requires.
- Skin and body protection: Impervious protective clothing. Protective boots, if the situation requires.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Liquid
Form: Clear
Colour: Colorless - Almost colorless
Odour: Characteristic
Odour threshold: No data available

Melting point/freezing point: No data available
Boiling point/range: 144°C (291°F)
Decomposition temperature: No data available
Relative density: 0.86
Kinematic viscosity: No data available
Log Pow: No data available

pH: No data available
Vapour pressure: No data available.
Vapour density: 5.0
Dynamic Viscosity: No data available

Evaporation rate(Butyl Acetate=1): No data available

Flash point: 45°C (113°F)
Flammability(solid, gas): No data available

Autoignition temperature: 266°C (511°F)

Flammability or explosive limits:
- Lower: 0.9%
- Upper: No data available

Solubility(ies):
- [Water] Very slightly soluble (0.13g/100mL, 20°C)
- [Other solvents] Miscible: Alcohols Soluble: Ether

10. STABILITY AND REACTIVITY

Reactivity: No data available
Chemical stability: Stable under proper conditions.
Possibility of hazardous reactions: No special reactivity has been reported.
Conditions to avoid: Spark, Open flame, Static discharge
Incompatible materials: Oxidizing agents, Acids, Bases
Hazardous decomposition products: Carbon dioxide, Carbon monoxide
11. TOXICOLOGICAL INFORMATION

**RTECS Number:** SA7525000

**Acute Toxicity:**
- ihl-hmn TCLo:100 ppm
- orf-rat LD50:6160 mg/kg
- ihl-rat LCLo:2000 ppm/4H
- skn-rbt LD50:>20 mL/kg

**Skin corrosion/irritation:**
- skn-rbt 500 mg open MLD

**Serious eye damage/irritation:**
- No data available

**Respiratory or skin sensitization:**
- No data available

**Germ cell mutagenicity:**
- No data available

**Carcinogenicity:**
- No data available

**Ecotoxicity:**
- Fish: No data available
- Crustacea: No data available
- Algae: No data available

**Persistence / degradability:** No data available

**Bioaccumulative potential (BCF):** No data available

**Mobility in soil:**
- Log Pow: No data available
- Soil adsorption (Koc): No data available
- Henry's Law (PaM^3/mol): No data available

**Reproductive Toxicity:**
- No data available

**Target organ(s):**
- May cause respiratory irritation.
- May cause drowsiness or dizziness.

12. ECOLOGICAL INFORMATION

**Ecotoxicity:**
- Fish: No data available
- Crustacea: No data available
- Algae: No data available

**Persistence / degradability:** No data available

**Mobility in soil:**
- Log Pow: No data available
- Soil adsorption (Koc): No data available
- Henry's Law (PaM^3/mol): No data available

13. DISPOSAL CONSIDERATIONS

**Disposal of product:**
Recycle to process if possible. It is the generator's responsibility to comply with Federal, State and Local rules and regulations. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. This section is intended to provide assistance but does not replace these laws, nor does compliance in accordance with this section ensure regulatory compliance according to the law. US EPA guidelines for Identification and Listing of Hazardous Waste are listed in 40 CFR Parts 261. The product should not be allowed to enter the environment, drains, water ways, or the soil.

**Disposal of container:**
Dispose of as unused product. Do not re-use empty containers.

**Other considerations:**
Observe all federal, state and local regulations when disposing of the substance.
14. TRANSPORT INFORMATION

DOT (US)

<table>
<thead>
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<th>Proper Shipping Name:</th>
<th>Class or Division:</th>
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<tr>
<td>UN1233</td>
<td>Methylamyl acetate</td>
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IMDG

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<td>3 Flammable liquid</td>
<td>III</td>
</tr>
</tbody>
</table>

EmS number: F-E, S-D

15. REGULATORY INFORMATION

Toxic Substance Control Act (TSCA 8b.):
This product is ON the EPA Toxic Substances Control Act (TSCA) inventory.

US Federal Regulations
CERCLA Hazardous substance and Reportable Quantity:
- SARA 313: Not Listed
- SARA 302: Not Listed

State Regulations
State Right-to-Know
- Massachusetts: Listed
- New Jersey: Listed
- Pennsylvania: Listed

California Proposition 65: Not Listed

Other Information

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International Inventories

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16. OTHER INFORMATION

Revision date: 07/06/2018
Revision number:
TCI chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its affiliates or subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our SDS are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated SDS for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.