1. IDENTIFICATION

Product Description: METHYL PHENYL ACETATE FCC

CAS #  101-41-7
FEMA Number 2733
Other means of identification
Vigon Item # 500786
Recommended use
Concentrated aromatic and flavor ingredient which may be used in flavor and fragrance compounds according to legal and IFRA or FEMA GRAS/FDA guidelines.

Recommended restrictions
For Manufacturing Use Only

Company
Vigon International, Inc.
127 Airport Road
E. Stroudsburg, PA 18301
For information call: 570-476-6300
Web Site: www.vigon.com

2. HAZARD(S) IDENTIFICATION

Physical hazards
Flammable liquids  Category 4

Health hazards
Acute toxicity, oral  Category 5
Acute toxicity, dermal  Category 5
Skin corrosion/irritation  Category 3

Environmental hazards
Not classified.

Label elements

Hazard symbol
None.

Signal word
Warning

Hazard statement
H227  Combustible liquid.
H303  May be harmful if swallowed.
H313  May be harmful in contact with skin.
H316  Causes mild skin irritation.

Precautionary statement

Prevention
P210  Keep away from flames and hot surfaces-No smoking.
P280  Wear protective gloves/eye protection/face protection.

Response
P312  Call a POISON CENTER or doctor/physician if you feel unwell.
P332 + P313  If skin irritation occurs: Get medical advice/attention.
P361 + P362 + P363  If the product is inhaled: Remove to fresh air.
P370 + P378  In case of fire: Use appropriate media for extinction.

Storage
P403 + P235  Store in a well-ventilated place. Keep cool.
3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Common name and synonyms</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>METHYL PHENYL ACETATE</td>
<td>methyl 2-phenylacetate</td>
<td>101-41-7</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>Methyl phenylacetate; Methyl .alpha.-toluate</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Benzeneacetic acid, methyl ester</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>methyl benzene ethanoate</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>methyl benzene acetate</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

4. FIRST-AID MEASURES

Inhalation: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. For breathing difficulties, oxygen may be necessary. Call a physician if symptoms develop or persist.

Skin contact: Take off immediately all contaminated clothing. Get medical attention if irritation develops and persists. Wash skin thoroughly with soap and water for several minutes.

Eye contact: Remove contact lenses, if present and easy to do. Get medical attention if irritation develops and persists. Promptly wash eyes with plenty of water while lifting the eye lids.

Ingestion: Call a physician or poison control center immediately. If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit does not enter the lungs.

Most important symptoms/effects, acute and delayed: Irritant effects.

Indication of immediate medical attention and special treatment needed: Not available.

General information: Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Water spray, fog, CO2, dry chemical, or alcohol resistant foam.

Unsuitable extinguishing media: Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from the chemical: Fire may produce irritating, corrosive and/or toxic gases.

Special protective equipment and precautions for firefighters: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Structural firefighters protective clothing will only provide limited protection. Wear self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode when fighting fires.
SAFETY DATA SHEET

500786 METHYL PHENYL ACETATE FCC

Fire fighting equipment/instructions

In case of fire and/or explosion do not breathe fumes. Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. Water runoff can cause environmental damage. Ventilate closed spaces before entering them. Keep run-off water out of sewers and water sources. Dike for water control.

Specific methods

Use water spray to cool unopened containers.

General fire hazards

Static charges generated by emptying package in or near flammable vapor may cause flash fire.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Eliminate all sources of ignition. Avoid contact with skin or inhalation of spillage, dust or vapor.

Methods and materials for containment and cleaning up

Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use. Collect and dispose of spillage as indicated in section 13 of the SDS.

Environmental precautions

Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Retain and dispose of contaminated wash water.

7. HANDLING AND STORAGE

Precautions for safe handling

Do not handle or store near an open flame, heat or other sources of ignition. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Avoid breathing vapor. Avoid prolonged exposure. Wash thoroughly after handling. Avoid contact with eyes, skin, and clothing.

Conditions for safe storage, including any incompatibilities

Keep container closed. Handle containers with care. Open slowly in order to control possible pressure release. Store in a cool, well-ventilated area.

8. EXPOSURE CONTROLS/PERSOAL PROTECTION

Occupational exposure limits

No exposure limits noted for ingredient(s).

Biological limit values

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Use explosion-proof ventilation equipment to stay below exposure limits.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection

Chemical resistant gloves.

Other

Not available.

Respiratory protection

Respiratory protection not required. If ventilation is insufficient, suitable respiratory protection must be provided.

Thermal hazards

Not available.

General hygiene considerations

When using, do not eat, drink or smoke. Avoid contact with eyes. Avoid contact with skin. Wash hands before breaks and immediately after handling the product. Handle in accordance with good industrial hygiene and safety practice.
9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value/Detail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Refer to Spec Sheet</td>
</tr>
<tr>
<td>Physical state</td>
<td>Liquid.</td>
</tr>
<tr>
<td>Form</td>
<td>Liquid.</td>
</tr>
<tr>
<td>Color</td>
<td>Refer to Spec Sheet</td>
</tr>
<tr>
<td>Odor</td>
<td>Characteristic.</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not available.</td>
</tr>
<tr>
<td>pH</td>
<td>Not available.</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>Not available.</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>419 °F (215 °C)</td>
</tr>
<tr>
<td>Flash point</td>
<td>195.0 °F (90.6 °C) Closed Cup</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not available.</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not available.</td>
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<tr>
<td>Upper/lower flammability or explosive limits</td>
<td>Not available.</td>
</tr>
<tr>
<td>Flammability limit - lower (%)</td>
<td>Not available.</td>
</tr>
<tr>
<td>Flammability limit - upper (%)</td>
<td>Not available.</td>
</tr>
<tr>
<td>Explosive limit - lower (%)</td>
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</tr>
<tr>
<td>Explosive limit - upper (%)</td>
<td>Not available.</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>0.13 mm Hg at 20°C</td>
</tr>
<tr>
<td>Vapor density</td>
<td>5.2</td>
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<tr>
<td>Relative density</td>
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<tr>
<td>Solubility (solvent)</td>
<td>Insoluble</td>
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<tr>
<td>Solubility (water)</td>
<td>Insoluble</td>
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<tr>
<td>Partition coefficient (n-octanol/water)</td>
<td>Not available.</td>
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<tr>
<td>Auto-ignition temperature</td>
<td>Not available.</td>
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<tr>
<td>Decomposition temperature</td>
<td>Not available.</td>
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<tr>
<td>Viscosity</td>
<td>Not available.</td>
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<tr>
<td>Other information</td>
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<tr>
<td>Flammability class</td>
<td>Combustible IIIA estimated</td>
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<tr>
<td>Molecular formula</td>
<td>C9H10O2</td>
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<td>Specific gravity</td>
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10. STABILITY AND REACTIVITY

<table>
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<th>Property</th>
<th>Value/Detail</th>
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<tbody>
<tr>
<td>Reactivity</td>
<td>Not available.</td>
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<tr>
<td>Chemical stability</td>
<td>Risk of ignition.</td>
</tr>
</tbody>
</table>
SAFETY DATA SHEET
500786 METHYL PHENYL ACETATE FCC

Possibility of hazardous reactions
- Not available.

Conditions to avoid
- Not available.

Incompatible materials
- Not available.

Hazardous decomposition products
- No hazardous decomposition products if stored and handled as indicated.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure
- Inhalation: Not available.
- Skin contact: May be harmful in contact with skin.
- Eye contact: Causes mild eye irritation.
- Ingestion: May be harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics
- Irritant effects.

Information on toxicological effects

Acute toxicity

<table>
<thead>
<tr>
<th>Product</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>METHYL PHENYL ACETATE (CAS 101-41-7)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acute</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dermal</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rabbit</td>
<td>2400 mg/kg</td>
</tr>
<tr>
<td>Oral</td>
<td>Rat</td>
<td>2550 mg/kg</td>
</tr>
</tbody>
</table>

* Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation
- Causes mild skin irritation.

Serious eye damage/eye irritation
- Due to lack of data the classification is not possible.

Respiratory or skin sensitization

Respiratory sensitization
- Due to lack of data the classification is not possible.

Skin sensitization
- Not available.

Germ cell mutagenicity
- Due to lack of data the classification is not possible.

Carcinogenicity
- Due to lack of data the classification is not possible.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
- Not listed.

Reproductive toxicity
- Due to lack of data the classification is not possible.

Specific target organ toxicity - single exposure
- Due to lack of data the classification is not possible.
Due to lack of data the classification is not possible.

Aspiration hazard: Due to lack of data the classification is not possible.

12. ECOLOGICAL INFORMATION

Ecotoxicity: No ecotoxicity data noted for the ingredient(s).

Persistence and degradability: Not available.

Bioaccumulative potential: Not available.

Mobility in soil: Not available.

Other adverse effects: Not available.

13. DISPOSAL CONSIDERATIONS

Disposal instructions: Do not discharge into drains, water courses or onto the ground. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazardous waste code: Not established.

Waste from residues / unused products: Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging: Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. TRANSPORT INFORMATION

ADN: Not regulated as dangerous goods.

ADR: Not regulated as dangerous goods.

RID: Not regulated as dangerous goods.

DOT: 

BULK

UN number: NA1993
Proper shipping name: COMBUSTIBLE LIQUID, N.O.S. (METHYL PHENYL ACETATE)
Hazard class: Combustible Liquid
Packing group: III

Environmental hazards:

Marine pollutant: No
Packaging exceptions: 150
Packaging bulk: 242
Labels required: 3

DOT: 

NON-BULK: Not regulated as dangerous goods.
### 15. REGULATORY INFORMATION

**US federal regulations**
- CERCLA Hazardous Substance List (40 CFR 302.4)
  - Not listed.
- US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
  - Not listed.
- SARA 304 Emergency release notification
  - Not regulated.
  - Not listed.
- TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
  - Not regulated.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**
- **Hazard categories**
  - Immediate Hazard - No
  - Delayed Hazard - No
  - Fire Hazard - Yes
  - Pressure Hazard - No
  - Reactivity Hazard - No

- SARA 302 Extremely hazardous substance
  - Not listed.
- SARA 311/312 Hazardous chemical
  - Yes
- SARA 313 (TRI reporting)
  - Not regulated.

**Other federal regulations**
- Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List
  - Not regulated.
Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)
Not regulated.

Safe Drinking Water Act
(drwa)

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))
METHYL PHENYL ACETATE (CAS 101-41-7) 40 %WT
DEA Exempt Chemical Mixtures Code Number
METHYL PHENYL ACETATE (CAS 101-41-7) 8791

Food and Drug Administration (FDA)

US state regulations

US. Massachusetts RTK - Substance List
Not regulated.

US. New Jersey Worker and Community Right-to-Know Act
Not listed.

US. Pennsylvania Worker and Community Right-to-Know Law
Not listed.

US. Rhode Island RTK
Not regulated.

US. California Proposition 65

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance
Not listed.

International Inventories

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>Australian Inventory of Chemical Substances (AICS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Domestic Substances List (DSL)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Non-Domestic Substances List (NDSL)</td>
<td>No</td>
</tr>
<tr>
<td>China</td>
<td>Inventory of Existing Chemical Substances in China (IECSC)</td>
<td>Yes</td>
</tr>
<tr>
<td>Europe</td>
<td>European Inventory of Existing Commercial Chemical Substances (EINECS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Europe</td>
<td>European List of Notified Chemical Substances (ELINCS)</td>
<td>No</td>
</tr>
<tr>
<td>Japan</td>
<td>Inventory of Existing and New Chemical Substances (ENCS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Korea</td>
<td>Existing Chemicals List (ECL)</td>
<td>Yes</td>
</tr>
<tr>
<td>New Zealand</td>
<td>New Zealand Inventory</td>
<td>Yes</td>
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<tr>
<td>Philippines</td>
<td>Philippine Inventory of Chemicals and Chemical Substances (PICCS)</td>
<td>Yes</td>
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<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>Yes</td>
</tr>
</tbody>
</table>

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s).
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).
16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

<table>
<thead>
<tr>
<th>Issue date</th>
<th>11-26-2015</th>
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<tbody>
<tr>
<td>Revision date</td>
<td>01-18-2016</td>
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<tr>
<td>Version #</td>
<td>02</td>
</tr>
<tr>
<td>HMIS® ratings</td>
<td>Health: 1</td>
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<tr>
<td></td>
<td>Flammability: 2</td>
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<tr>
<td></td>
<td>Physical hazard: 0</td>
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</tbody>
</table>

Disclaimer

The information in the sheet was written based on the best knowledge and experience currently available. The above information relates only to this product and not to its use in combination with any other material or any particular process and is designed only as guidance for the safe handling, use, processing, storage, transportation, disposal, and should not be considered as a guarantee or quality specification. The above information is based on data provided by and collected from recognized sources such as distributors, manufacturers, and technical groups and is considered to be accurate to the best of Vigon’s knowledge as of the date of this document. It is the responsibility of the user to review all safety information about this product and determine its safety and suitability in their own processes and operations. Appropriate warnings and safe handling procedures should be provided to all handlers and users, taking into account the intended use and the specific conditions and factors relating to such use in accordance with all applicable laws and regulations.

Revision Information

Product and Company Identification: Vigon Values
Physical & Chemical Properties: Multiple Properties
Toxicological Information: Toxicological Data
Transport Information: Material Transportation Information