1. PRODUCT AND COMPANY IDENTIFICATION:

PRODUCT CODE           A0261
PRODUCT NAME           METHYL BENZOATE
SUPPLIER               Shanghai M & U International Trade Co., Ltd.
                        Rm 1717, No 598 North NuJiang Road
                        200333 Shanghai, China
                        +86-21-32515501 32515502
                        sales@mu-intel.com

FOR EMERGENCIES CALL CHEMTREC: 800-424-9300 (24-HOURS)

2. HAZARD IDENTIFICATION:

Emergency Overview

OSHA Hazards
Combustible Liquid, Harmful by ingestion

GHS Classification
Flammable liquids (Category 4)
Acute toxicity, Oral (Category 4)
Skin irritation (Category 3)
Eye irritation (Category 2B)
Acute aquatic toxicity (Category 3)

GHS Label elements, including precautionary statements
Pictogram

Signal word  Warning

Hazard statement(s)
H227    Combustible liquid
H302    Harmful if swallowed
H316    Causes mild skin irritation
H320    Causes eye irritation
H402    Harmful to aquatic life

Precautionary statement(s)
P305 P351 P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
HMIS Classification
Health hazard 1
Flammability 2
Physical hazards 0

NFPA Rating
Health hazard 1
Fire 2
Reactivity Hazard 0

Potential Health Effects
Inhalation May be harmful if inhaled. May cause respiratory tract irritation
Skin Harmful if absorbed through skin. May cause skin irritation
Eyes May cause eye irritation
Ingestion Harmful if swallowed

3. COMPOSITION AND INFORMATION ON INGREDIENTS:

Formula C8H8O2
Molecular Weight 136.15 g/mol
CAS-No EC-No
93-58-3 202-259-7

4. FIRST-AID GUIDE:

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician

In case of skin contact
Wash off with soap and plenty of water. Consult a physician

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician

If swallowed
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician

5. FIRE-FIGHTING GUIDE:

Suitable extinguishing media
For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

**Special protective equipment for firefighters**
Wear self contained breathing apparatus for firefighting if necessary.

**Hazardous combustion products**
Hazardous decomposition products formed under fire conditions. - Carbon oxides

**Further information**
Use water spray to cool unopened containers.

6. **ACCIDENTAL RELEASE GUIDE:**

**Personal precautions**
Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

**Environmental precautions**
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

**Methods and materials for containment and cleaning up**
Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

7. **HANDLING AND STORAGE:**

**Precautions for safe handling**
Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the buildup of electrostatic charge.

**Conditions for safe storage**
Keep container tightly closed in a dry and well-ventilated place.

8. **EXPOSURE AND PERSONAL PROTECTION:**

Contains no substances with occupational exposure limit values.

**Personal protective equipment**
Respiratory protection.
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)

**Hand protection**
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands

**Eye protection**
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU)

**Skin and body protection**
Complete suit protecting against chemicals, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace

**Hygiene measures**
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday

9. **PHYSICAL AND CHEMICAL PROPERTIES:**

**Appearance**
Form: liquid
Color: colorless to pale yellow

**Safety data**
- pH: no data available
- Melting point (°C): -12
- Boiling point (°C): 198
- Flash point (°F): Closed Cup 180
- Ignition temperature: no data available
- Auto ignition temperature: no data available
- Lower explosion limit: no data available
- Upper explosion limit: no data available
- Vapor pressure (mm Hg @20 °C): 1.3
- Density @25 °C: 1.094
- Water solubility: insoluble
- Partition coefficient: n-octanol/ water: no data available
- Relative vapor density: 4.7
- Odor: deep, pungent, floral
- Odor Threshold: no data available
10. STABILITY AND REACTIVITY:

Chemical stability
Stable under recommended storage conditions

Possibility of hazardous reactions
No data available

Conditions to avoid
Heat, flames and sparks

Materials to avoid
Strong oxidizing agents, Strong bases

Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Other decomposition products - no data available

11. TOXICOLOGICAL INFORMATION:

Acute toxicity
Oral LD50
LD50 Oral - rat - 1,177 mg/kg
Remarks: Behavioral: Change in motor activity (specific assay). Diarrhea Skin and Appendages: Other: Hair.

Inhalation LC50
No data available

Dermal LD50
No data available

Other information on acute toxicity
No data available

Skin corrosion/irritation
Skin - rabbit - Mild skin irritation - 24 h

Serious eye damage/eye irritation
Eyes - rabbit - Mild eye irritation - 24 h

Respiratory or skin sensitization
No data available
Germ cell mutagenicity
No data available

Carcinogenicity
IARC
No components of this product present at levels greater than or equal to 0.1% is identified as probable. Possible or confirmed human carcinogen by IARC
ACGIH
No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH
NTP
No components of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP
OSHA
No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA

Reproductive toxicity
No data available

Teratogenicity
No data available

Specific target organ toxicity - single exposure (Globally Harmonized System)
No data available

Specific target organ toxicity - repeated exposure (Globally Harmonized System)
No data available

Aspiration hazard
No data available

Potential health effects
Inhalation May be harmful if inhaled. May cause respiratory tract irritation
Ingestion Harmful if swallowed
Skin Harmful if absorbed through skin May cause skin irritation
Eyes May cause eye irritation

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

Synergistic effects
No data available

Additional Information
RTECS: DH3850000

12. ECOLOGICAL INFORMATION:

**Toxicity**
Toxicity to fish LC50
Danio rerio (zebra fish) - 23 mg/l - 96 h

Toxicity to daphnia EC50 and other aquatic invertebrates
Daphnia magna (Water flea) - 62.6 mg/l - 24 h

**Persistence and degradability**
Biodegradability

**Bioaccumulative potential**
No data available

**Mobility in soil**
No data available

**PBT and vPvB assessment**
No data available

**Other adverse effects**
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

**Harmful to aquatic life**
No data available

13. DISPOSAL RECOMMENDATIONS:

**Product**
This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company

**Contaminated packaging**
Dispose of as unused product

14. TRANSPORTATION INFORMATION:

**DOT (US)**
Not dangerous goods

**IMDG**
Not dangerous goods

**IATA**
Not dangerous goods
15. REGULATORY INFORMATION:

OSHA Hazards
Combustible Liquid, Harmful by ingestion

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

Massachusetts Right to Know Components
No components are subject to the Massachusetts Right to Know Act

Pennsylvania Right to Know Components
<table>
<thead>
<tr>
<th>Methyl benzoate</th>
<th>CAS-No</th>
<th>Revision Date</th>
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<tbody>
<tr>
<td>93-58-3</td>
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New Jersey Right to Know Components
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California Prop 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm

16. OTHER INFORMATION:

The information in this MSDS was obtained from current and reliable sources. However, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions for use, handling, storage and disposal of this product are beyond M&U’s control, it is the responsibility of the user both to determine safe conditions for use of this product and to assume liability for loss, damage, or expense arising out of the products improper use. No warranty expressed or implied regarding the product described herein will be created by or inferred from any statement or omission in the MSDS. Various federal, state, or provincial agencies may have specific regulations concerning the transportation, handling, storage, use, or disposal of this product which may not be reflected in the MSDS. The user should review these regulations to ensure full compliance.