

**1. PRODUCT AND COMPANY IDENTIFICATION:**

**PRODUCT CODE** A0650  
**PRODUCT NAME** Benzophenone  
**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](mailto:sales@mu-intel.com)

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

**2. HAZARD IDENTIFICATION:**

**Classification of the substance or mixture:**



Acute Aquatic Tox. 1 H400 Very toxic to aquatic life.  
Chronic Aquatic Tox. 1 H410 Very toxic to aquatic life with long lasting effects.

**Label elements**

Harmful in contact with skin and vapor.

**GHS label elements**

Pictograms on label shall be in the shape of a square set at a point and shall include a black hazard symbol on a white background with a red frame sufficiently wide to be clearly visible. The substance is classified and labeled according to the Globally Harmonized System (GHS).

**Hazard pictograms**



**Signal word**

Warning

**Hazard statements**

H410 H410 Very toxic to aquatic life with long-lasting effects.

**Precautionary statements**

P273 Avoid release to the environment.  
P391 Collect spillage.  
P501 Dispose of contents/container to an approved waste disposal plant.

**Classification system:  
NFPA ratings (scale 0 - 4)**

Health = 0  
Fire = 1  
Reactivity = 0

**HMIS-ratings (scale 0 - 4)**

Health = 0  
Fire = 1  
Reactivity = 0

**Other hazards  
Results of PBT and vPvB assessment**

**PBT:**  
Not applicable.

**vPvB:**  
Not applicable.

**3. COMPOSITION AND INFORMATION ON INGREDIENTS:**

**Chemical characterization: Substances**  
**CAS No.:** 119-61-9  
**Description:** Benzenophenone

**Identification number(s)**  
**EC No.:** 204-337-6

**Hazardous Components**

Component	Classification	Concentration
Benzophenone	Aquatic Acute 1; Aquatic chronic 1; H410	90-100%

**4. FIRST-AID GUIDE:  
Description of first aid measures**

**After inhalation:**  
Supply fresh air. In case of unconsciousness place patient stably in side position for transportation. Call a doctor if symptoms develop or persist.

**After skin contact:**

Wash off with plenty of soap and water.

**After eye contact:**

Rinse opened eye for several minutes under running water.

**After swallowing:**

If swallowed rinse mouth with water (only if person is conscious). Do NOT induce vomiting. If symptoms persist consult doctor.

**Information for doctor:****Most important symptoms and effects, both acute and delayed**

No further relevant information available.

**Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

**5. FIRE-FIGHTING GUIDE:****Extinguishing media****Suitable extinguishing agents:**

CO2 or extinguishing powder. Fight larger fires with alcohol resistant foam.

**Special hazards arising from the substance or mixture**

No further relevant information available.

**Advice for firefighters****Protective equipment:**

No special measures required.

**Additional information**

Cool endangered receptacles with water spray.

Collect contaminated firefighting water separately. It must not enter the sewage system.

**6. ACCIDENTAL RELEASE GUIDE:****Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure proper ventilation.

**Environmental precautions:**

Prevent further leakage if safe to do so. Do not let product enter drains.

**Methods and material for containment and cleaning up:**

Absorb with liquid binding material (sand, diatomite, acid binders, universal binders, sawdust). Contain spillage and then collect with an electrically protected vacuum or by wet-brushing and place in container for disposal.

**Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

**7. HANDLING AND STORAGE:**

**Handling:**

**Precautions for safe handling**

Use personal protective equipment.

**Information about protection against explosions and fires:**

Keep container tightly closed in a dry well-ventilated place.

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

**Storage:**

**Requirements to be met by storerooms and receptacles:**

Keep container closed, handle containers with care. Keep in a dry place.

**Information about storage in one common storage facility:**

Not required.

**Further information about storage conditions:**

Store in cool, dry location. Keep receptacle tightly sealed.

**Specific end use(s)**

No further relevant information available.

**8. EXPOSURE AND PERSONAL PROTECTION:**

**Additional information about design of technical systems:**

No further data; see item 7.

**Control parameters**

**Components with limit values that require monitoring at the workplace:**

Component	CAS-No.	Value	Control Parameters	Basis
Benzophenone	119-61-9	TWA	0.500000 mg/m3	USA. Workplace Environmental Exposure Levels (WEEL)

**Additional information:**

The lists that were valid during the creation were used as a basis.

## Exposure controls

### Personal protective equipment:

#### General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

#### Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

#### Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material should be based on consideration of the penetration times, rates of diffusion and the degradation

#### Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

#### Penetration time of glove material

The exact break through time has to be determined by the manufacturer of the protective gloves and has to be observed.

#### Eye protection:



Tightly sealed goggles.

## 9. PHYSICAL AND CHEMICAL PROPERTIES:

Information on basic physical and chemical properties

<b>General Information</b>	
<b>Appearance:</b>	
<b>Form:</b>	Crystalline
<b>Color:</b>	According to product spec
<b>Odor:</b>	According to product spec
<b>Odour threshold:</b>	Not determined.

<b>pH-value:</b>	Not determined.
<b>Change in condition</b>	
<b>Melting point/Melting range:</b>	Not determined.
<b>Boiling point/Boiling range:</b>	305°C (581 °F)
<b>Flash point:</b>	138°C (280°F)
<b>Flammability (solid, gaseous):</b>	Not applicable.
<b>Ignition temperature:</b>	Not determined.
<b>Decomposition temperature:</b>	Not determined.
<b>Auto igniting:</b>	Not determined.
<b>Danger of explosion:</b>	Not determined
<b>Explosion limits:</b> <b>Lower:</b> <b>Upper:</b>	Product does not present explosion hazard.
<b>Vapor pressure:</b>	Not determined.
<b>Density at 20 °C (68 °F):</b>	1.1108 g/cm <sup>3</sup>
<b>Relative density</b>	Not determined.
<b>Vapour density</b>	Not determined.
<b>Evaporation rate</b>	Not determined.
<b>Solubility in / Miscibility with Water:</b>	Not miscible or difficult to mix.
<b>Partition coefficient (n-octanol/water):</b>	Not determined.
<b>Viscosity:</b>	
<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.
<b>Organic solvents:</b>	Not determined.
<b>Other information</b>	No further relevant information available.

## 10. STABILITY AND REACTIVITY:

### Reactivity

#### Chemical stability

#### Thermal decomposition/conditions to be avoided:

No decomposition if used according to specifications.

#### Possibility of hazardous reactions

No dangerous reactions known.

#### Conditions to avoid

No further relevant information available.

#### Incompatible materials:

Strong oxidizing agents, strong reducing agents.

#### Hazardous decomposition products:

No further relevant information available.

## 11. TOXICOLOGICAL INFORMATION:

### Information on toxicological effects

#### Acute toxicity:

LD50 Oral – Rat: >10,000 mg/kg

LD50 Dermal – Rabbit >3,535 mg/kg

#### Primary irritant effect:

##### On the skin:

Skin irritation.

##### On the eye:

No irritating effect.

#### Sensitization:

No sensitizing effects known.

#### Additional toxicological information:

##### Carcinogenic categories

##### IARC (International Agency for Research on Cancer)

Substance is not listed.

##### NTP (National Toxicology Program)

Substance is not listed.

##### OSHA-Ca (Occupational Safety & Health Administration)

Substance is not listed.

## 12. ECOLOGICAL INFORMATION:

### Toxicity

#### Aquatic toxicity:

Toxicity to fish mortality NOEC, Pimephales promelas (fathead minnow) – 5.86 mg/l-7.0d

mortality LOEC – Pimephales promelas(fathead minnow)-9.24mg/l -7.0d

LC50 – Pimephales promela (fathead minnow)-14.2mg/l – 96h

Toxicity to daphnia EC50 – Daphnia mana (water flea) – 0.28mg/l -24h

and other aquatic

invertebrates

#### Persistence and degradability

No further relevant information available.

#### Behavior in environmental systems:

##### Bioaccumulative potential

No data available.

**Mobility in soil**

No further relevant information available.

**Additional ecological information:****General notes:**

Water hazard class 1 (assessment by list): slightly hazardous for water. Do not let discharge reach drains, water courses, or onto the ground. Do not allow material to enter drains, sewers/water supplies.

**Results of PBT and vPvB assessment****PBT:**

Not applicable.

**vPvB:**

Not applicable.

**Other adverse effects**

No further relevant information available.

**13. DISPOSAL RECOMMENDATIONS:****Waste treatment methods****Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Empty containers should be taken to an approved waste handling site for recycling or disposal.

**Uncleaned packaging:****Recommendation:**

Disposal must be made according to official regulations.

**14. TRANSPORTATION INFORMATION:**

<b>UN-Number DOT, ADR, IMDG, IATA</b>	UN3077
<b>UN proper shipping name DOT ADR IMDG, IATA</b>	Not dangerous goods. ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Benzophenone) EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packages and combination packages with Dangerous goods
<b>Transport hazard class(es) DOT, ADR, IMDG, IATA Class</b>	9
<b>Packing group</b>	III



<b>DOT, ADR, IMDG, IATA</b>	
<b>Environmental hazards:</b> <b>Marine pollutant:</b>	Yes. Very toxic to aquatic life
<b>Special precautions for user</b> <b>Danger code:</b> <b>EMS No.:</b> <b>Stowage Category</b>	Not applicable.
<b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
<b>Transport/Additional information:</b> <b>DOT</b> <b>Quantity limitations</b>	Not applicable.
<b>ADR</b> <b>Excepted quantities (EQ)</b>	>5L for liquids or >5kg for solids
<b>IMDG</b> <b>Limited quantities (LQ)</b> <b>Excepted quantities (EQ)</b>	Not applicable.
<b>UN "Model Regulation":</b>	UN3077,9, III

#### 15. REGULATORY INFORMATION:

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

**Sara**

**Section 355 (extremely hazardous substances):**

Substance is not listed.

**Section 311/312 (hazardous chemical):** Substance is not listed.

**Section 313 (Specific toxic chemical listings):**

Substance is not listed.

**TSCA (Toxic Substances Control Act):**

Substance is not listed.

**Proposition 65**

**Chemicals known to cause cancer:**

Substance is not listed.

**Chemicals known to cause reproductive toxicity for females:**

Substance is not listed.

**Chemicals known to cause reproductive toxicity for males:**

Substance is not listed.

**Chemicals known to cause developmental toxicity:**

Substance is not listed.

**Carcinogenic categories**

**EPA (Environmental Protection Agency)**

Substance is not listed.

**TLV (Threshold Limit Value established by ACGIH)**

Substance is not listed.

**NIOSH-Ca (National Institute for Occupational Safety and Health)**

Substance is not listed.

**GHS label elements**

The substance is not classified and labeled according to the Globally Harmonized System (GHS).

**Hazard pictograms**



**Signal word**

Warning

**Hazard statements**

H410 H410 Very toxic to aquatic life with long-lasting effects.

**Precautionary statements**

P273 Avoid release to the environment.  
P391 Collect spillage.  
P501 Dispose of contents/container to an approved waste disposal plant.

**Chemical safety assessment:**

A Chemical Safety Assessment has not been carried out.

**16. OTHER INFORMATION:**

The information in this SDS 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 SDS. 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 SDS. The user should review these regulations to ensure full compliance.

