



## MATERIAL SAFETY DATA SHEET

---

### AVOBENZONE

#### SECTION 1- CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** AVOBENZONE USP

**Company Identification:** MFCI (Huanggang) Co., Ltd.

Huangzhou Railway Station Economic Development Zone,  
Huanggang City, Hubei, China

Tel:+86-714-6516755 Fax:+86-714-6516705

#### SECTION 2- COMPOSITION/INFORMATION ON INGREDIENTS

**Substance/mixture:** Substance

**Component(s):** 1-(4-tert-Butylphenyl)-3-(4-methoxyphenyl)-1,3-propanedione

**CAS Number:** 70356-09-1

**EINECS Number:** 274-581-6

**Synonyms:** Parsol 1789

**Percent:** 95.0% min

**Chemical Formula:** C<sub>20</sub>H<sub>22</sub>O<sub>3</sub>

#### SECTION 3- HAZARDS IDENTIFICATION

**Hazard Summary:**

**Target Organs:** Eyes  
Respiratory System  
Primary Routes of Entry: Eyes. Inhalation. Ingestion. Skin.

**Acute Health Hazard:** May cause respiratory tract irritation.  
May cause slight eye irritation.

**Chronic Health Hazard:** None known

**Symptoms of Overexposure:**

**Eye Contact:** Slight irritation

**Skin contact:** Not hazardous

**Ingestion:** Not hazardous

**Inhalation:** May cause respiratory tract irritation.

#### SECTION 4- FIRST AID MEASURES

**Eye Contact:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.

**Skin Contact:** Wash off with soap and water.



# MATERIAL SAFETY DATA SHEET

**Ingestion:** Do not induce vomiting. If conscious, give 2 glasses of water. Get immediate medical attention.

**Inhalation:** If inhaled, remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Get medical attention.

## SECTION 5- FIRE FIGHTING MEASURES

**Suitable Extinguishing Media:**

Carbon dioxide, Dry powder

**Combustion/Explosion Hazards:**

May form explosive dust-air mixture

**Special Protective Equipment For Fire-Fighters:**

Wear self-contained breathing apparatus and protective suit.

## SECTION 6- ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Wear suitable protective equipment.

**Methods for Cleaning Up:** Clean up promptly by scoop or vacuum. Avoid dust formation. Avoid dust accumulation in enclosed space.

## SECTION 7- ACCIDENTAL RELEASE MEASURES

**Handling:** Avoid dust formation. Avoid dust accumulation in enclosed space. Avoid breathing dust. Wash thoroughly after handling.

**Storage:** Keep container tightly closed. Keep in a dry, cool place. Keep away from direct sunlight.

## SECTION 8- EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Measures:** Use only in well-ventilated areas.

**Respiratory Protection:** Use NIOSH approved respiratory protection. Use only in well-ventilated areas.

**Hand Protection:** Wear protective gloves.

**Eye Protection:** Safety glasses.

**Exposure Limits:**

Components	ACGIH -Threshold Limit Values -Time Weighted Averages (TLV-TWA)	U.S. -OSHA -Final PELs -Time Weighted Averages (TWAs)
Particles Not Otherwise Regulated	3mg/m3 respirable particles, recommended	5 mg/m3 respirable fraction 15 mg/m3 total dust



## MATERIAL SAFETY DATA SHEET

RR-00072-6 (80-100)	10mg/m <sup>3</sup> inhalable particles, recommended	
1,3-Propanedione, 1-[4-(1,1dimethylethyl) phenyl]-3-(4methoxyphenyl) 70356-09-1 (100)	No TLV/TWA Established	No TLV/TWA Established

### SECTION 9- PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Solid (crystal - powder)
<b>Colour:</b>	White or pale yellow
<b>Odour:</b>	Odourless
<b>pH:</b>	No data available.
<b>Melting point:</b>	81 - 86°C
<b>Boiling point:</b>	No data available.
<b>Density:</b>	1.037 - 1.041 g/cm <sup>3</sup>
<b>Vapour pressure:</b>	No data available.
<b>Partition coefficient</b> <b>(n-octanol/water):</b>	Log Kow = 4.51 (calculated)
<b>Solubility(ies):</b>	Practically insoluble.
<b>Flash point:</b>	No data available.
<b>Flammability:</b>	Non flammable.
<b>Explosive properties:</b>	Not explosive.
<b>Oxidising properties:</b>	No oxidising properties.

### SECTION 10- STABILITY AND REACTIVITY

<b>Chemical Stability:</b>	Stable under normal conditions.
<b>Conditions to Avoid:</b>	Keep away from heat/sparks/open flames/hot surfaces. -No smoking. Avoid dust formation. Avoid dust accumulation in enclosed space.
<b>Materials to Avoid:</b>	Iron

### SECTION 11- TOXICOLOGICAL INFORMATION

<b>Toxicity Test:</b>	
<b>Acute Oral Toxicity:</b>	>16000 mg/kg (Rat) >8000 mg/kg (Mouse)
<b>Eye Irritation:</b>	Slightly irritating to rabbit eyes.
<b>Skin Irritation:</b>	Non-irritating to guinea pig .Non-irritating to rabbit skin.
<b>Sensitization:</b>	



## MATERIAL SAFETY DATA SHEET

Non-sensitizing to guinea pig skin.

**Mutagenicity:**

Non-mutagenic (Ames assay).

**Teratogenicity:**

Non-teratogenic

**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.

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

### SECTION 12- ECOLOGICAL INFORMATION

**Persistence and Degradability:** Not determined.

**Ecotoxicity:** No data available.

### SECTION 13- DISPOSAL CONSIDERATIONS

**Waste Disposal Methods:** Dispose of in accordance with local regulations.

### SECTION 14 - TRANSPORT INFORMATION

**US DOT:** Not Listed

**UN/NA No.:** UN3077

**Shipping name:** Avobenzone

**Label precautions:** In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
Wear suitable protective clothing.

#### ADR/RID

Class or Division	9	
UN/NA number		UN3077
Shipping Name		Avobenzone

#### IMDG

Class or Division	9	
UN/NA number		UN3077
Shipping Name		Avobenzone

## MATERIAL SAFETY DATA SHEET

---

### IATA

Class or Division	9	
UN/NA number		UN3077
Shipping Name		Avobenzone

### SECTION 15- REGULATORY INFORMATION

Inventories	Status
TSCA	Listed
DSL	Listed
NDSL	Not Listed
ENCS	Not Listed
AICS	Listed
EINECS	Listed
ELINCS	Not Listed
NZIoC	Listed
KECI	Not Listed
PICCS	Listed
IECSC	Listed

### SECTION 16- OTHER INFORMATION

MSDS Creation Date: 7/16/2006 Revision #4 Date: 5/1/2015

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.