



## MATERIAL SAFETY DATA SHEET

### 1. PRODUCT AND COMPANY IDENTIFICATION:

|                     |  |
|---------------------|--|
| <b>PRODUCT CODE</b> | A0167  |
| <b>PRODUCT NAME</b> | ZINGERONE  |
| <b>SUPPLIER</b>     | Shanghai M & U International Trade Co., Ltd.<br>Rm 1717, No 598 North NuJiang Road<br>200333 Shanghai, China<br>+86-21-32515501 32515502<br>sales@mu-intel.com |

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

### 2. HAZARD IDENTIFICATION:

#### **Classification of the substance or mixture**

Not hazardous substance or mixture according to Regulation (EC) No 1272/2008

This substance is not classified as dangerous according to Directive 67/548/EEC

#### **Label elements**

The product does not need to be labeled in accordance with EC directives or respective national law

#### **Other hazards**

No data available

### 3. COMPOSITION AND INFORMATION ON INGREDIENTS:

|                 |  |
|-----------------|--|
| <b>SYNONYMS</b> | 4-(4-HYDROXY-3-METHOXYPHENYL)BUTAN-2-ONE |
| <b>Formula</b>  | C11 H14 O3                               |
| <b>CAS No</b>   | EC No                                    |
| 122-48-5        | 204-548-3                                |

### 4. FIRST-AID GUIDE:

#### **Description of first aid measures**

##### **General advice**

Consult physician

Show safety data sheet to the doctor in attendance

##### **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**

Flush eyes with water as a precaution

**If swallowed**

Never give anything by mouth to an unconscious person

Consult a Physician

**Most important symptoms and effects, both acute and delayed**

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

No data available

**5. FIRE-FIGHTING GUIDE:**

**Extinguishing media**

**Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

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

Carbon oxides

**Advice for firefighters**

Wear self contained breathing apparatus for firefighting if necessary

**Further information**

No data available

**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 adequate ventilation

Avoid breathing dust

**Environmental precautions**

Do not let product enter drains

**Methods and materials for containment and cleaning up**

Pick up and arrange disposal without creating dust

Sweep up and shovel

Keep in suitable, closed containers for disposal

**Reference to other sections**

For disposal see section 13

**7. HANDLING AND STORAGE:**

**Precautions for safe handling**

Avoid formation of dust and aerosols

Provide appropriate exhaust ventilation at places where dust is formed

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

Store in cool place

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

Recommended storage temperature: 2 - 8 °C

**Specific end uses**

No data available

## **8. EXPOSURE AND PERSONAL PROTECTION:**

### **Control parameters**

#### **Components with workplace control parameters**

#### **Exposure controls**

##### **Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice

Wash hands Before Breaks and at the end of workday

#### **Personal protective equipment**

##### **Eye/face protection**

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU)

##### **Skin 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

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it

##### **Body protection**

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace

##### **Respiratory protection**

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks

Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)

## **9. PHYSICAL AND CHEMICAL PROPERTIES:**

### **Information on basic physical and chemical properties**

Appearance

Form: solid

Odour

no data available

Odour Threshold

no data available

pH

no data available

Melting point/freezing Melting point/range

40 - 41 °C - lit. point

Initial boiling point and boiling range

141 °C at 0,7 hPa - lit.

Flash point

113 °C - closed cup

|  |                    |
|--|--------------------|
| Evaporation rate                             | no data available  |
| Flammability (solid, gas)                    | no data available  |
| Upper/lower flammability or explosive limits | no data available  |
| Vapour pressure                              | no data available  |
| Vapour density                               | no data available  |
| Relative density                             | 1,14 g/mL at 25 °C |
| Water solubility                             | no data available  |
| Partition coefficient: n- octanol/water      | no data available  |
| Autoignition temperature                     | no data available  |
| Decomposition temperature                    | no data available  |
| Viscosity                                    | no data available  |
| Explosive properties                         | no data available  |
| Oxidizing properties                         | no data available  |

#### **Other safety information**

No data available

### **10. STABILITY AND REACTIVITY:**

#### **Reactivity**

No data available

#### **Chemical stability**

No data available

#### **Possibility of hazardous reactions**

No data available

#### **Conditions to avoid**

No data available

#### **Incompatible materials**

Strong oxidizing agents

#### **Hazardous decomposition products**

Other decomposition products - no data available

### **11. TOXICOLOGICAL INFORMATION:**

#### **Information on toxicological effects**

##### **Acute toxicity**

LD50 Oral - rat - 2.580 mg/kg

LD50 Dermal - rabbit - > 5.000 mg/kg

##### **Skin corrosion/irritation**

Skin - rabbit - Mild skin irritation - 24 h

##### **Serious eye damage/eye irritation**

No data available

##### **Respiratory or skin sensitization**

No data available

##### **Germ cell mutagenicity**

No data available

**Carcinogenicity**

IARC

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

**Reproductive toxicity**

No data available

**Specific target organ toxicity - single exposure**

No data available

**Specific target organ toxicity - repeated exposure**

No data available

**Aspiration hazard**

No data available

**Potential health effects**

Inhalation

May be harmful if inhaled  
May cause respiratory tract irritation

Ingestion

May be harmful if swallowed

Skin

May be harmful if absorbed through skin

May cause skin irritation

Eyes

May cause eye irritation

**Additional Information**

RTECS: EL8900000

**12. ECOLOGICAL INFORMATION:**

**Toxicity**

No data available

**Persistence and degradability**

No data available

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

**Results of PBT and vPvB assessment**

No data available

**Other adverse effects**

No data available

**13. DISPOSAL RECOMMENDATIONS:**

**Waste treatment methods**

**Product**

Dissolve or mix the material with a combustible solvent and burn 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:**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006

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

No data available

**Chemical Safety Assessment**

No data available

#### **16. OTHER INFORMATION:**

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