

## MATERIAL SAFETY DATA SHEET

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Chemical Name:** 4-(1-phenylethy) 1,3-benzenediol  
**Synonyms:** 4-(1-Phenylethyl)benzene-1,3-diol; 4-(1-Phenylethyl)resorcinol; 4-(alpha-Methylbenzyl)resorcinol  
**Formula:** C<sub>14</sub>H<sub>14</sub>O<sub>2</sub>  
**Supplier:** Watson International Ltd  
**Telephone No:** 86-512-81867280  
**Fax No:** 86-512-81867270

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

No.	Name
1.	4-(1-phenylethy) 1,3-benzenediol

  

No.	CAS No.	R Phrases	Concentration	Classification
1.	85-27-8	R20/21/22-R34	99.0% (w/w)	C
2.			1.0% (w/w)	Ik
3.				

**Legend:** Tx = Very Toxic, C = Corrosive, Xn = Harmful, Xi = Irritant, Ik = No Classification Required, E = Explosive, O = Oxidizing, Fx = Extremely Flammable, F = Very Flammable, Fo = Flammable, N = Dang. To the Environment, M = Genotoxic, A = Sensitizing, K = Carcinogenic, R = Causes birth defects, H = skin absorption

### 3. HAZARDS IDENTIFICATION

#### Hazard Statements:

May be harmful if swallowed.  
Causes skin irritation.  
Causes serious eye irritation.  
May cause respiratory irritation.

#### Precautionary Statements:

Obtain special instructions before use.  
Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.  
Continue rinsing.  
IF exposed or concerned: Get medical advice/ attention

#### Potential Health Effects:

Inhalation: May be harmful if inhaled. Causes respiratory tract irritation.  
Skin: May be harmful if absorbed through skin. Causes skin irritation.  
Eyes: Causes eye irritation.  
Ingestion: May be harmful if swallowed.

### 4. FIRST-AID MEASURES

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<b>Inhalation:</b>	If headache, irritation, nausea or drowsiness occurs, move to fresh air and call a physician.
<b>Skin Contact:</b>	Remove contaminated clothing. Wash skin with mild soap and water. If irritation or any other symptoms occur, call a physician.
<b>Eye Contact:</b>	Flush eyes with cool water for entire surface of eyes and call a physician.
<b>Swallow:</b>	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water and call an physician or poison control center immediately.

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## 5. FIRE-FIGHTING MEASURES

<b>Conditions of flammability:</b>	Not flammable or combustible.
<b>Suitable extinguishing media:</b>	Carbon-dioxide, foam, or dry chemicals.
<b>Special protective equipment for firefighters</b>	Wear self contained breathing apparatus for firefighting if necessary.
<b>Hazardous combustion products</b>	Carbon dioxide, carbon monoxide, fumes.
<b>Further information</b>	Use water spray to cool unopened containers.

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## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions:</b>	Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations.
<b>Environmental Precautions:</b>	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
<b>Methods for Cleaning Up:</b>	Place in container for disposal according to local regulations. Keep in suitable, closed containers for disposal.

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## 7. HANDLING AND STORAGE

<b>Handling:</b>	Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Avoid prolonged or repeated exposure. Wash thoroughly after handling.
<b>Storage:</b>	Keep container tightly closed in a cool and dry and place.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Respiratory protection:</b>	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).
<b>Hand protection:</b>	Handle with rubber 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

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with applicable laws and good laboratory practices.

<b>Eye protection:</b>	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).
<b>Skin and body protection:</b>	Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
<b>Hygiene measures:</b>	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
<b>Specific engineering control</b>	Use mechanical exhaust or laboratory fume hood to avoid exposure..

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Powder
<b>Color:</b>	White to beige
<b>Melting Point/Melting Range:</b>	78.0-82.0°C
<b>Solubility in Water:</b>	Insoluble

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## 10. STABILITY AND REACTIVITY

<b>Chemical stability:</b>	Stable under recommended storage conditions.
<b>Possibility of hazardous reactions:</b>	No data available.
<b>Conditions to avoid:</b>	Heat, flames and sparks.
<b>Materials to avoid:</b>	Strong acids, alkalis and oxidizing agents.

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## 11. TOXICOLOGICAL INFORMATION

<b>Acute oral toxicity:</b>	LD50 rat; Dose :> 300-<2,000 mg/kg; Method: OECD 423
<b>Acute dermal toxicity:</b>	LD50 rat; Dose :> 2,000 mg/kg; Method: OECD Test Guideline 402
<b>Acute inhalation toxicity:</b>	Not toxic

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## 12. ECOLOGICAL INFORMATION

### Elimination information (persistence and degradability)

#### Biodegradability: OECD 301D

Results: Not readily biodegradable 1%

Method: OECD 301D

#### Ecotoxicity effects:

##### Toxicity to fish: LC50

Species:

Dose: 8.49mg/l

Exposure time: 96h

Method: OECD Test Guideline 203

##### Toxicity to algae: EC50

Species

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Dose: 2.42mg/l

Exposure time: 72h

Method: OECD Test Guideline 201

## Toxicity to bacteria: EC50

Species: Activated sludge

Dose: 33mg/l

Exposure time: 3h

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## 13. DISPOSAL CONSIDERATIONS

### Product and Waste:

Contact a licensed professional waste disposal service to dispose of this material.

### Containers:

Dispose of as unused product.

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## 14. TRANSPORT INFORMATION

### DOT/ IMDG/ IATA/ ADR:

Proper Shipping Name: Corrosive Solid, Acidic, n.o.s. Organic, 4-(1-phenylethy) 1,3-benzenediol

UN Number : 3261

Packing Group : PG II

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## 15. REGULATORY INFORMATION

Contains 4-(1-phenylethy) 1,3-benzenediol 99.0% w/w

### R- PHRASES

**R20/21/22** – Harmful by inhalation, in contact with skin and if swallowed.

**R34** – Causes burns.

### S- PHRASES

**S23** – Do not breathe vapor.

**S24** – Avoid contact with skin.

**S25** – Avoid contact with eyes.

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## 16. OTHER INFORMATION

Packing:

25kg / fiber drum

Or as per request.

Revision:

9/June/2013

### DISCLAIMER

*The information in the MSDS relates to this specific material. If the product is used as a component in any other product, this MSDS may not be valid. The information contained was obtained from sources which we believe are reliable. The information is provided without any warranty, expressed or implied, regarding its correctness.*

**BY: Watson International Ltd**

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