SAFETY DATA SHEET

version 3.0 Revision Date 04.03.2016

Material Safety Data Sheet
Phenylethyl Resorcinol msds

Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 **Product identifiers**

INCI Name : Phenylethyl Resorcinol

Synonyms : 1,3-Benzenediol, 4-(1-Phenylethyl)-

CAS-No. : 85-27-8

1.2 **Relevant identified uses of the substance or mixture and uses advised against**

Identified uses : Skin whitening

1.3 **Details of the supplier of the safety data sheet**

Company : M.C.Biotec Inc.
47-505, Demin Huayuan
Nantong, China

Tel : +86-139-13923033

Fax : +86-10-80115555 ext 441505

E-mail address : mc@mcbiotec.com

Url : www.mcbiotec.com

1.4 **Emergency telephone number**

Emergency Phone # : +86-139-13923033

Section 2: Hazards Identification

Physical hazards	Not classified.	
Health hazards	Acute toxicity, oral	Category 5
	Acute toxicity, dermal	Category 5
	Skin corrosion/irritation	Category 1B
	Serious eye damage/eye irritation	Category 1
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 2
	Hazardous to the aquatic environment, long-term hazard	Category 2

Label elements	
Signal word	Danger
Hazard statement	
H303 + H313	May be harmful if swallowed or in contact with skin.
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage.
H401	Toxic to aquatic life.
Precautionary statement	
Prevention	
P260	Do not breathe dust.
P264	Wash thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
Response	
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+ P361 +P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 +P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P363	Wash contaminated clothing before reuse.
P391	Collect spillage.
Storage	
P405	Store locked up.
Disposal	
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	WARNING! May form combustible dust concentrations in air. Avoid breathing dust.
Supplemental information	None.

Section 3: Composition and Information on Ingredients

3.1 **Substances**

Synonyms : 2-(1-phenylethyl) benzene-1,3-diol

1,3-Benzenediol, 4-(1-phenylethyl)-

Formula : $C_{14}H_{14}O_2$

Molecular Weight : 214.26 g/mol

Component			Concentration
Phenylethyl Resorcinol			
	CAS-No.	85-27-8	100%

Section 4: First Aid Measures

4.1 **Description of first aid measures**

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. For breathing difficulties, oxygen may be necessary. Call a physician if symptoms develop or persist.

In case of skin contact

Take off immediately all contaminated clothing. Get medical attention if irritation develops and persists. Wash skin thoroughly with soap and water for several minutes.

In case of eye contact

Remove contact lenses, if present and easy to do. Get medical attention if irritation develops and persists. Promptly wash eyes with plenty of water while lifting the eye lids.

If swallowed

Call a physician or poison control center immediately. If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs.

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

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

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

no data available

4.4 **General information**

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect

themselves. Show this safety data sheet to the doctor in attendance.

Section 5: Fire Fighting Measures

5.1 **Extinguishing media**

Suitable extinguishing media

Water spray, fog, CO2, dry chemical, or alcohol resistant foam.

Unsuitable extinguishing media

Do not use a solid water stream as it may scatter and spread fire.

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

Fire may produce irritating, corrosive and/or toxic gases.

Explosion hazard: Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

5.3 **Advice for firefighters**

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Structural firefighters protective clothing will only provide limited protection. Wear self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode when fighting fires.

5.4 **Fire fighting equipment/instructions**

In case of fire and/or explosion do not breathe fumes. Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. Water runoff can cause environmental damage. Ventilate closed spaces before entering them. Keep run-off water out of sewers and water sources. Dike for water control.

5.4 **Specific methods**

Use water spray to cool unopened containers.

5.5 **General fire hazards**

Static charges generated by emptying package in or near flammable vapor may cause flash fire.

Section 6: Accidental Release Measures

6.1 **Personal precautions, protective equipment and emergency procedures**

Keep unnecessary personnel away. Eliminate all sources of ignition. Avoid contact with skin or inhalation of spillage, dust or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them.

6.2 **Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid release to the environment. Retain and dispose of contaminated wash water. Contact local authorities in case of spillage to drain/aquatic environment.

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

Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Sweep up and place in a clearly labeled container for chemical waste. Wash contaminated area with water.

Use only non-sparking tools. Avoid the generation of dusts during clean-up.

Never return spills in original containers for re-use. This material and its container must be disposed of as hazardous waste. Collect and dispose of spillage as indicated in section 13 of the SDS.

6.4 **Reference to other sections**

For disposal see section 13.

Section 7: Handling and Storage

7.1 **Precautions for safe handling**

Do not handle or store near an open flame, heat or other sources of ignition. Take precautionary measures against static discharges when there is a risk of dust explosion. Avoid breathing dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wash thoroughly after handling.

Minimize dust generation and accumulation. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Assume that this material is capable of producing a dust explosion if ignited as a dust cloud.

Take precautionary measures against static discharges. Avoid breathing vapor.

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

Keep container closed. Handle containers with care. Open slowly in order to control possible pressure release. Store in a cool, well-ventilated area.

7.3 **Specific end uses**

no data available

Section 8: Exposure Controls/Personal Protection

8.1 **Occupational exposure limits**

No exposure limits noted for ingredient(s).

Biological limit values

No biological exposure limits noted for the ingredient(s).

8.2 **Exposure controls**

Appropriate engineering controls

Use only appropriately classified electrical equipment and powered industrial trucks. Use explosion-proof ventilation equipment to stay below exposure limits. It is recommended that all dust control equipment

such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen-deficient environment. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment).

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

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

Respiratory protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator.For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges.

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

Section 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: powder\crystal Colour: almost white
b)	Odour	Characteristic.
c)	Odour Threshold	no data available
d)	pH	no data available
e)	Melting point/freezing point	-58 °F (-50 °C)
f)	Initial boiling point and boiling range	689 - 694.4 °F (365 - 368 °C)
g)	Flash point	> 200.0 °F (> 93.3 °C) Closed Cup
h)	Evaporation rate	no data available

i)	Flammability (solid, gas)	no data available
j)	Upper/lower flammability or explosive limits	no data available
k)	Vapour pressure	no data available
l)	Vapour density	no data available
m)	Relative density	1.24 g/cm3 (20 °C)
n)	Water solubility	insoluble
o)	Partition coefficient: noctanol/water	no data available
p)	Autoignition temperature	no data available
q)	Decomposition temperature	no data available
r)	Viscosity	no data available
s)	Explosive properties	no data available
t)	Oxidizing properties	no data available

9.2 **Other safety information**

Flammability class Combustible IIIB estimated

Section 10: Stability and Reactivity

10.1 **Reactivity**

The product is stable and non-reactive under normal conditions of use, storage and transport

10.2 **Chemical stability**

Material is stable under normal conditions.

10.3 **Possibility of hazardous reactions**

No dangerous reaction known under conditions of normal use.

10.4 **Conditions to avoid**

Keep away from heat, sparks and open flame. Avoid temperatures exceeding the flash point.

Minimize dust generation and accumulation. Contact with incompatible materials.

10.5 **Incompatible materials**

Strong oxidizing agents

10.6 **Hazardous decomposition products**

No hazardous decomposition products if stored and handled as indicated.

Section 11: Toxicological Information

Information on toxicological effects

Acute toxicity May be harmful if swallowed. May be harmful in contact with skin.

Product	Species	Test Results

4-(1-PHENYLETHYL)- 1,3- BENZENEDIOLE (CAS 85-27-8)

Acute		
Dermal		
LD50	Rabbit	> 2000 mg/kg
Oral		
LD50	Rat	> 2000 mg/kg

Skin corrosion/irritation Causes severe skin burns and eye damage.
Humans: No skin irritation @ 5 %

Serious eye damage/eye irritation Causes serious eye damage.

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization mouse: No sensitizing effect.

Germ cell mutagenicity Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Carcinogenicity

OSHA pecifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

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.

ACGIH No component 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 component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -single exposure The substances or mixture is not classified as specific target organ toxicant, single exposure.

Specific target organ toxicity -repeated exposure The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration hazard Corrosive to the respiratory tract.

Potential health effects

Inhalation Irritating to respiratory system.

Ingestion Causes digestive tract burns. May be harmful if swallowed.

Skin Causes severe skin burns. May be harmful in contact with skin.

Eyes Causes serious eye damage.

Signs and Symptoms of Exposure

Burning pain and severe corrosive skin damage. Causes serious eye damage. Dusts may irritate the respiratory tract, skin and eyes. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

Additional Information

RTECS: Not available

Section 12: Ecological Information

Product		Species		Test Results
4-(1-PHENYLETHYL)- 1,3- BENZENEDIOLE (CAS 85-27-8)				
	Aquatic			
	Acute			
	Crustacea	EC50	Daphnia magna	1.41 mg/l, 48 hours OECD Test Guideline 202
	Fish	LC50	Fish	8.94 mg/l, 96 hours OECD Test Guideline 203
	Other	EC50	Activated Sludge	33 mg/l, 3 hours OECD Test Guideline 201
Persistence and degradability		Not readily biodegradable. 1 %/28 d, OECD 301D		
Bioaccumulative potential		No data available.		
Mobility in soil		No data available.		
Other adverse effects		No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.		

Section 13: Disposal Considerations

13.1 **Waste treatment methods**

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging

Dispose of as unused product.

Section 14: Transport Information

14.1 **UN number**

ADR/RID: 3261 IMDG: 3261 IATA: 3261

14.2 **UN proper shipping name**

ADR/RID: CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (4-(1-PHENYLETHYL)-1,3-BENZENEDIOLE)

IMDG: CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (4-(1-PHENYLETHYL)-1,3-BENZENEDIOLE)

IATA: CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (4-(1-PHENYLETHYL)-1,3-BENZENEDIOLE)

14.3 **Transport hazard class(es)**

ADR/RID: 8 IMDG:8 IATA:8

14.4 **Packaging group**

ADR/RID: II IMDG: II IATA: II

14.5 **Environmental hazards**

ADR/RID: Yes IMDG Marine pollutant: Yes IATA: Yes

14.6 **Labels required**

ADR/RID: 8 IMDG Marine pollutant: 8 IATA: 8

14.7 **ADN; ADR; DOT BULK; DOT NON-BULK; IATA; IMDG; RID**

Marine pollutant

Section 15: Regulatory Information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - No

Fire Hazard - No

Pressure Hazard - No

Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical Yes

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA) Not regulated.

US state regulations

US. Massachusetts RTK - Substance List

Not regulated.

US. New Jersey Worker and Community Right-to-Know Act

Not listed.

US. Pennsylvania Worker and Community Right-to-Know Law

Not listed.

US. Rhode Island RTK

Not regulated.

US. California Proposition 65

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Not listed.

Section 16: Other Information

HMIS® ratings Health: 3

Flammability: 1

Physical hazard: 0

Disclaimer

The information above is based on our present knowledge. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. Users should make their own investigations to determine the suitability of the information for their particular purposes.