

Safety Data Sheet

According to Regulation (EC) No 1907/2006

Pyrogallol

Version 1.0

Issue date: 06/07/2017

Revision date: 06/07/2017

SDS Record Number: CSSS-TCO-010-124004

Section 1 Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier:

Identification on the label/Trade name: Pyrogallol
Additional identification: 1,2,3-Trihydroxybenzene; 1,2,3-Benzenetriol; Pyrogallic acid
Identification of the product: CAS#87-66-1 EC#201-762-9
Index Number: 604-009-00-6
REACH registration No.: Not available

1.2 Relevant identified uses of the substance and uses advised against:

1.2.1 Identified uses:

Intermediate chemical used in the synthesis of fine chemicals.

1.2.2 Uses advised against:

Not available.

1.3 Details of the supplier of the safety data sheet:

Supplier(Only representative): Chemical Inspection & Regulation Service Limited
Supplier(Manufacturer): ZUNYI SHI BEI YUAN CHEMICAL ENGINEERING CO,LTD
Address: Shawan Village, Shawan Town of Zunyi City
Contact person(E-mail): 2723460366@qq.com
Telephone: +86-851-27751555,+86-13595252158
Fax: +86-851-27751258

1.4 Emergency telephone Number:

+353 41 980 6916 (Only available during office hours 8:30a.m.-17:30p.m.)

Available outside office hours? YES NO

Section 2 Hazards Identification

2.1 Classification of the substance/mixture:

2.1.1 Classification:

The substance is classified as following according to REGULATION (EC) No 1272/2008:

REGULATION (EC) No 1272/2008	
Hazard classes/Hazard categories	Hazard statement
Acute Tox. 4	H302
Acute Tox. 4	H312
Acute Tox. 4	H332
Muta. 2	H341
Aquatic Chronic 3	H412

For full text of H- phrases: see section 2.2.

2.2 label elements:

Product name: Pyrogallol

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Hazard Pictograms:**Signal Word(S):**

Warning

Hazard Statement:

H302: Harmful if swallowed

H312: Harmful in contact with skin

H332: Harmful if inhaled

H341: Suspected of causing genetic defects

H412: Harmful to aquatic life with long lasting effects

Precautionary Statement:

P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and understood.

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.

P264: Wash hands thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

P271: Use only outdoors or in a well-ventilated area.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P301 + P312: IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P302 + P352: IF ON SKIN: Wash with plenty of water.

P304 + P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P308 + P313: IF exposed or concerned: Get medical advice/attention.

P312: Call a POISON CENTER/ doctor if you feel unwell.

P330: Rinse mouth.

P362 + P364: Take off contaminated clothing and wash it before reuse.

P405: Store locked up.

P501: Dispose of contents/container in accordance with local regulation.

2.3 Other hazards:

Not applicable.

Section 3 Composition/information on ingredients**Substance/Mixture:**

Substance

Ingredient(s):

Chemical Name	Registration No.	CAS No.	EC No.	Concentration
Pyrogallol	N/A	87-66-1	201-762-9	99.5%

Section 4 First aid measures**4.1 Description of first aid measures:**

In all cases of doubt, or when symptoms persist, seek medical attention.

4.1.1 In case of inhalation:

Remove to fresh air. If not breathing, give artificial respiration. Oxygen may additionally be given, by trained personnel, if it is available. Get medical attention if symptoms occur.

4.1.2 In case of skin contact:

Remove contaminated clothing and wash affected area thoroughly with soap and water. Report for medical attention.

4.1.3 In case of eyes contact:

Irrigate eyes with eyewash solution or clean water, holding the eyelids apart, for at least fifteen minutes (do not let run-off water contaminate unaffected eye). Obtain immediate medical aid.

4.1.4 In case of ingestion:

Do not induce vomiting. Rinse out patient's mouth (if conscious) with water then give plenty of water to drink; keep warm and at rest. If unconscious, place/transport patient in secured side recovery position. Obtain immediate medical aid.

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

Inhaled dust is harmful and may cause irritation of the respiratory system (eg coughing and sneezing). May cause irritation (eg redness, tears, conjunctivitis). Harmful by skin absorption and may cause irritation (eg reddening of skin, itching). Harmful if swallowed and may cause gastric disturbance (eg vomiting, diarrhoea, stomach cramps).

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

If skin irritation or rash occurs, get medical advice/attention.

Section 5 Fire-Fighting measures

5.1 Extinguishing media:

Suitable extinguishing media:

Substance is combustible. If involved in a fire extinguish with water spray. Foam, dry powder or CO₂ may also be used.

Unsuitable extinguishing media:

Not available.

5.2 Special hazards arising from the substance or mixture

May produce irritating and/or toxic fumes of organic compounds and carbon monoxide. Mixtures of fine dust with air may be explosive.

5.3 Advice for firefighters:

Firefighters must wear fire resistant protective equipment. Wear approved respirator and protective gloves.

Section 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

6.1.1 For non-emergency personnel:

Prevent build up of dust by ensuring adequate ventilation. Keep all sources of ignition away. Keep people and animals away. If the accidental release is significant, consider evacuating workplace or exposed area. Wear protective clothing as specified in Section 8.

6.1.2 For emergency responders:

Wear an appropriate NIOSH/MSHA approved respirator if dust is generated.

6.2 Environmental Precautions:

Prevent spilt material or contaminated wash or fire-fighting water entering drains or watercourses – contain by portable bunding if necessary and protect drains with covers. Dampen spillages with water to prevent dust dispersion. Collect up spillages without delay.

6.3 Methods for Containment and Cleaning up:

Collect up powder using spark proof industrial vacuum cleaner with high efficiency filters. Otherwise, collect up using non-metal shovel avoiding formation of dust cloud (dampen solid if necessary if it not to be reused). Transfer collected material to steel or plastic drum for safe disposal – see Section 13. Subsequently wash down affected area with detergent and water. Prevent chemical or contaminated wash water from entering drains or watercourses.

6.4 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 information on disposal.

Section 7 Handling and storage

7.1 Precautions for safe handling:

7.1.1 Protective measures:

Generally handle material in ways which minimise dust build up; where dust formation is likely ensure adequate filtered ventilation and keep all ignition sources away. In a materials handling context (eg process facility) ensure adequate provision for dust explosion relief on any equipment handling the material in a dry or powdered state. Take precautions against static discharge such as grounding and low vertical drops; tip from plastic bags onto open stainless steel chutes and not into contained/enclosed spaces. Avoid spillages especially in the presence of oxidising agents, drains and watercourses. Avoid damaging packages. See Section 8 for occupational hygiene and exposure prevention measures.

7.1.2 Advice on general occupational hygiene:

Do not eat, drink and smoke in work areas. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.

7.2 Conditions for safe storage, including any incompatibilities:

Material is a relatively stable organic solid which might form a flammable dust. Store in a designated, well ventilated, dry room or other suitable area away from direct sunlight (discolours).

7.3 Specific end use(s):

Not applicable.

Section 8 Exposure Controls/Personal Protection

8.1 Control parameters:

8.1.1 Occupational exposure limits: Not available.

8.1.2 Additional exposure limits under the conditions of use: Not available.

8.1.3 DNEL/DMEL and PNEC-Values: Not available.

8.2 Exposure controls:

8.2.1 Appropriate engineering controls: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

8.2.2 Individual protection measures, such as personal protective equipment:

Eye/face protection: Wear safety glasses with side pieces or safety goggles to EN166 or 29 CFR 1910.133.

Hand protection: Wear chemical resistant protective gloves (eg rubber, neoprene, butyl, PVC or nitrile) to EN374. Do not wear heavily contaminated or damaged gloves, and decontaminate before removal. Check condition regularly, especially for abrasion damage.

Body protection: Wear standard workplace protective clothing (eg laboratory coat, washable or disposable overalls, protective footwear).

Respiratory protection: Depending upon workplace/incident circumstances use filtering respirator with filter cartridge Type P3 (Particulates) or breathing apparatus – see note below for types available. In an emergency or where the concentration of dust is unknown but could be high use clean air supplied breathing apparatus. Do not use a filtering respirator in: atmospheres containing <19.5% oxygen; poorly ventilated areas; confined spaces; when concentration of dust is unknown, is 'immediately dangerous to life or health' or is above any workplace exposure limit; for fire-fighting.

Thermal hazards: Wear suitable protective clothing to prevent heat.

- 8.2.3 Environmental exposure controls:** Avoid discharge into the environment.
According to local regulations, Federal and official regulations.

Section 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Appearance:	Fine crystals
Colour:	White to off-white
Odour:	Very slight
Odour threshold:	Not available
pH:	5 to 5.4 (20% aqueous solution)
Melting point/range (°C):	131 - 134°C
Boiling point/range (°C):	Not available
Flash point (°C):	293°C
Evaporation rate:	Not available
Flammability limit - lower (%):	Not available
Flammability (solid, gas):	Combustible
Ignition temperature (°C):	Not available
Upper/lower flammability/explosive limits:	Lower explosive limit (dust) :1.4%
Vapour pressure (20°C):	100mmHg (167.7°C)
Vapour density:	Not available
Relative Density:	0.5 or 1.453
Bulk density (kg/m³):	Not available
Water solubility (g/l):	Soluble
n-Octanol/Water (log Po/w):	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	293 or 309°C
Viscosity, dynamic (mPa.s):	Not available
Explosive properties:	High potential if in fine dust form
Oxidising properties:	Not available
Molecular Formula:	C ₆ H ₆ O ₃
Molecular Weight:	126.11

9.2. Other information:

Fat solubility(solvent– oil to be specified)	Not available
etc:	
Surface tension:	Not available
Dissociation constant in water(pKa):	Not available
Oxidation-reduction Potential:	Not available
Specific gravity:	Not available

Section 10 Stability and reactivity

- 10.1 Reactivity:** The substance is stable under normal storage and handling conditions.
- 10.2 Chemical stability:** Stable at room temperature in closed containers under normal storage and handling conditions. Although like most organic substances is combustible and will

- 10.3 Possibility of hazardous reactions:** decompose if heated. Darkens on exposure to light or air. Not reported to undergo hazardous reactions although like most organic substances may react and ignite with oxidising agents. Although like many substances may initiate polymerisation or catalyse decomposition of certain organic liquids (eg monomers) if allowed to contaminate them.
- 10.4 Conditions to avoid:** Incompatible materials. Heat, damp, and exposure to light or air.
- 10.5 Incompatible materials:** Strong oxidizing agents. Acid chlorides, acid anhydrides, bases, oxidizing agents, metals, alkalis.
- 10.6 Hazardous decomposition products:** May produce irritating and/or toxic fumes of organic compounds and carbon monoxide. Mixtures of fine dust with air may be explosive.

Section 11 Toxicological information

11.1 Information on toxicological effects:

Acute toxicity:	
LD50(Oral, Rat):	790 mg/kg
LD50(Dermal, Rabbit):	Not available
LC50(Inhalation, Rat):	Not available
Skin corrosion/Irritation:	Not classified
Serious eye damage/irritation:	Not classified
Respiratory or skin sensitization:	Not classified
Germ cell mutagenicity:	Suspected of causing genetic defects
Carcinogenicity:	Not classified
Reproductive toxicity:	Not classified
STOT- single exposure:	Not classified
STOT-repeated exposure:	Not classified
Aspiration hazard:	Not classified

Section 12 Ecological information

12.1 Toxicity:

Acute toxicity	Time	Species	Method	Evaluation	Remarks
LC50 18mg/l	48h	Fish	OECD 203	N/A	N/A
EC50 54mg/l	24h	Daphnia	OECD 202	N/A	N/A
EC50 N/A	72h	Algae	OECD 201	N/A	N/A

- 12.2 Persistence and degradability:** Not available.
- 12.3 Bioaccumulative potential:** BCF= 0.37 (estimated).
- 12.4 Mobility in soil:** Estimated to be very high with little adsorption on soil particles.
- 12.5 Results of PBT&vPvB assessment:** Not available.
- 12.6 Other adverse effects:** Harmful to aquatic life with long lasting effects.

Section 13 Disposal considerations

- 13.1 Waste treatment methods:** Due to the high risk of contamination recycling/recovery is not recommended. Waste disposal in accordance with regulations (most probably controlled incineration).

Section 14 Transport information			
	Land transport(ADR/RID)	Sea transport (IMDG)	Air transport (ICAO/IATA)
UN-Number	Not regulated	Not regulated	Not regulated
UN Proper shipping name	Not regulated	Not regulated	Not regulated
Transport hazard Class	Not regulated	Not regulated	Not regulated
Packaging group	Not regulated	Not regulated	Not regulated
Environmental hazards	No	No	No
Special precautions for user	See section 2.2	See section 2.2	See section 2.2
Transport in bulk according to Annex II of Marpol and the IBC Code	Not regulated	Not regulated	Not regulated

Section 15 Regulation information

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

Relevant information regarding authorization: Not applicable.

Relevant information regarding restriction: Not applicable.

Other EU regulations: Employment restrictions concerning young person must be observed. For use only by technically qualified individuals.

Other National regulations: Not applicable

15.2 Chemical Safety Assessment has been carried out? YES NO

Section 16 Other information

16.1 Indication of changes:

Version 1.0 Amended by (EU) 2015/830

16.2 Training instructions:

Not applicable.

16.3 Further information:

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

16.4 Notice to reader:

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

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