

Material Safety Data Sheet

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: 1,2,4-Benzenetriol

Catalog Number(s): 121 5946 - 1 gram(s)

Supplier: Carestream Health, Inc., 150 Verona Street, Rochester, New York, 14608

For Emergency Health Information call, (800) 424-9300

For other information contact 800-328-2910.

Synonym(s): KAN 904491, CIN 10004491, W-0001.000

Molecular Formula: C6 H6 O3

Molecular Weight: 126.11

2. COMPOSITION/INFORMATION ON INGREDIENTS

Weight % - Component - (CAS Registry No.)

100 1,2,4-benzenetriol (000533-73-3)

3. HAZARDS IDENTIFICATION

POISON

MAY BE FATAL IF SWALLOWED

CAUSES SEVERE SKIN BURNS

MAY BE HARMFUL IF INHALED

DUST IRRITATING TO THE EYES AND RESPIRATORY TRACT

CAUSES EYE IRRITATION OR BURNS

Eastman Kodak Hazard Ratings: R-3, S-3, F-1, C-0

HMIS Hazard Ratings:

Health - 3, Flammability - 1, Reactivity - 0, Personal Protection - X

NFPA Hazard Ratings:

Health - 2, Flammability - 1, Reactivity (Stability) - 0

NOTE: HMIS and NFPA hazard indexes involve data review and interpretation that may vary among companies. They are intended only for rapid, general identification of the magnitude of the potential hazards. The personal protection index is only intended for general guidance on personal protection equipment (PPE) that is suitable for the potential hazards of the material. PPE (e.g., respirators) may not be needed if engineering controls (e.g., local ventilation) are adequate. An asterisk (*), in the HMIS health field, designates potential chronic or target organ hazards. To adequately address safe handling, ALL information in this MSDS must be considered.

4. FIRST-AID MEASURES

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Inhalation: Move to fresh air. Treat symptomatically. If breathing is difficult or if cyanotic, give oxygen. Get medical attention immediately.

Eyes: Immediately flush with plenty of water for at least 15 minutes. Get medical attention immediately.

Skin: Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Wash contaminated clothing before reuse. Destroy or thoroughly clean contaminated shoes.

Ingestion: Induce vomiting as directed by medical personnel. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

5. FIRE FIGHTING MEASURES

Extinguishing Media: Water spray, carbon dioxide (CO₂), dry chemical

Special Fire-Fighting Procedures: Wear self-contained breathing apparatus and protective clothing.

Hazardous Combustion Products: Carbon dioxide, carbon monoxide

Unusual Fire and Explosion Hazards: Powdered material may form explosive dust-air mixtures.

6. ACCIDENTAL RELEASE MEASURES

Avoid generation of dust. Collect up and put in a suitable container. Clean surface thoroughly to remove residual contamination.

7. HANDLING AND STORAGE

Personal Precautionary Measures: Do not breathe dust. Do not get in eyes, on skin, on clothing. Use only with adequate ventilation. Wash thoroughly after handling.

Prevention of Fire and Explosion: Powdered material may form explosive dust-air mixtures. Minimize dust generation and accumulation. Use with adequate ventilation. Keep away from sources of ignition. Refer to NFPA Pamphlet No. 654, "Prevention of Fire and Dust Explosions in the Chemical, Dye, Pharmaceutical, and Plastics Industries." Keep from contact with oxidizing materials.

Storage: Keep container closed. Keep away from incompatible substances (see Incompatibility section)

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits: Not established

Ventilation: Use process enclosures, local exhaust ventilation or other engineering controls to maintain airborne levels to an acceptable level. Supplementary local exhaust ventilation, closed systems, or respiratory

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protection may be needed in special circumstances such as poorly ventilated spaces, mechanical generation of dusts, heating, drying, etc.

Respiratory Protection: If engineering controls do not maintain airborne concentrations to an acceptable level, an approved respirator must be worn. Respirator type: air-supplied hooded respirator If respirators are used, a program should be instituted to assure compliance with OSHA Standard 29 CFR 1910.134.

Eye Protection: Wear safety glasses with side shields (or goggles) and a face shield.

Skin Protection: Wear impervious gloves and protective clothing appropriate for the risk of exposure.

Recommended Decontamination Facilities: Eye bath, washing facilities, safety shower

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Form: Solid
Color: Brown
Odor: Not available
Specific Gravity (water = 1): Not available
Vapor Pressure: Not available
Vapor Density (Air = 1): Not available
Volatile Fraction by Weight: Not available
Melting Point: 138°C (280°F)
Solubility in Water: Complete
pH: Not applicable
Flash Point: Not applicable, combustible solid

10. STABILITY AND REACTIVITY

Stability: Stable.

No exotherm to: 400°C by HPDSC

Incompatibility: Strong oxidizing agents, air, bases, acid chlorides, acid anhydrides

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Effects of Exposure:

Inhalation: Based on toxicity observed in a single-dose intra-peritoneal study, this material may be harmful if inhaled. Airborne dust irritating.

Eyes: Causes severe irritation or burns.

Skin: Causes severe burns. Harmful if absorbed through skin.

Ingestion: POISON. May be fatal if swallowed. May cause burns of the gastrointestinal tract if swallowed.

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Acute Toxicity Data:

Oral LD-50 (mouse): < 10 mg/kg
Skin irritation: severe
Eye irritation (10% solution): irritation
Skin sensitization: none

12. ECOLOGICAL INFORMATION

Data for chemically similar materials have been used to estimate the environmental impact of this material.
However, this material, itself, has not been tested for environmental effects.

Potential Toxicity

Fish LC50 mg/l:	10-100
Daphnid EC50 mg/l:	10-100
Algal IC50 mg/l:	1-10
Organics Readily Degradable (>70%):	Yes (7 days)
Potential Bioaccumulation:	Log Pow 0.55
COD (approximate g/g):	1.5
BOD5 (approximate g/g):	0.75
Potential Toxicity Waste treatment microorganisms EC50 (mg/l):	10-100

13. DISPOSAL CONSIDERATIONS

Discharge, treatment, or disposal may be subject to national, state, or local laws. Incinerate.

14. TRANSPORT INFORMATION

For more transportation information, go to: <http://ship.carestreamhealth.com>.

15. REGULATORY INFORMATION

- Material(s) known to the State of California to cause cancer: None
- Material(s) known to the State of California to cause adverse reproductive effects: None

Carcinogenicity Classification (components present at 0.1% or more):

- International Agency for Research on Cancer (IARC): None
- American Conference of Governmental Industrial Hygienists (ACGIH): None
- National Toxicology Program (NTP): None
- Occupational Safety and Health Administration (OSHA): None
- Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372: None

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16. OTHER INFORMATION

US/Canadian Label Statements:

DANGER!
POISON
MAY BE FATAL IF SWALLOWED
CAUSES SEVERE SKIN BURNS
MAY BE HARMFUL IF INHALED
DUST IRRITATING TO THE EYES AND RESPIRATORY TRACT
CAUSES EYE IRRITATION OR BURNS

Do not breathe dust.
Do not get in eyes, on skin, on clothing.
Use only with adequate ventilation.
Minimize dust generation and accumulation.
Keep container closed.
Wash thoroughly after handling.

FIRST AID: If swallowed, induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. If inhaled, move to fresh air. Call a physician or poison control center immediately. If breathing is difficult or if cyanotic, give oxygen. In case of contact, immediately flush eyes and skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Wash contaminated clothing before reuse. Destroy or thoroughly clean contaminated shoes.

Keep out of reach of children.

Do not handle or use until safety precautions in Material Safety Data Sheet (MSDS) have been read and understood.

The information contained herein is furnished without warranty of any kind. Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of employees and customers and the protection of the environment.

R-3, S-3, F-1, C-0