

[Barium Citrate Tribasic Heptahydrate](#)
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Linear Formula	Ba ₃ (C ₆ H ₅ O ₇) ₂ · 7H ₂ O
Pubchem CID	90475336
MDL Number	MFCD01862635
EC No.	208-140-6
IUPAC Name	barium(2+); 2-hydroxypropane-1,2,3-tricarboxylate; heptahydrate
Beilstein/Reaxys No.	3924511
SMILES	C(C(=O)[O-])C(CC(=O)[O-])C(=O)[O-]O.C(C(=O)[O-])C(CC(=O)[O-])C(=O)[O-]O.O.O.O.O.O.O.O.[Ba+2].[Ba+2].[Ba+2]
Inchi Identifier	InChI=1S/2C6H8O7.3Ba.7H2O/c2*7-3(8)1-6(13,5(11)12)2-4(9)10;.....h2*13H,1-2H2,(H,7,8)(H,9,10)(H,11,12);...7*1H2/q;3*+2;...../p-6
Inchi Key	LBVYZBHOKEJA-UHFFFAOYSA-H

Signal Word	Warning
Hazard Statements	H302 + H332
Hazard Codes	N/A
Risk Codes	N/A
Safety Statements	N/A
Transport Information	N/A
WGK Germany	1

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SAFETY DATA SHEET

Date Accessed: 05/02/2024

Date Revised: 01/15/2022

SECTION 1. IDENTIFICATION

Product Identifiers: All applicable American Elements product codes for CAS #6487-29-2

Relevant identified uses of the substance:
Scientific research and development

Supplier details:
American Elements
10884 Weyburn Ave.
Los Angeles, CA 90024
Tel: +1 310-208-0551
Fax: +1 310-208-0351

Emergency telephone number:
Domestic, North America +1 800-424-9300
International +1 703-527-3887

SECTION 2. HAZARDS IDENTIFICATION

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification

Acute toxicity - Oral Category 3

Acute toxicity - Inhalation (Dusts/Mists) Category 4

Label elements

Signal word Danger

Hazard statements Toxic if swallowed

HARMFUL IF INHALED

Symbols/Pictograms



Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after

handling

Do not eat, drink or smoke when using this product

Avoid breathing dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention

IF INHALED: Remove victim to fresh air and keep at rest in a

position comfortable for breathing

Call a POISON CENTER or doctor/physician if you feel unwell

IF SWALLOWED: Immediately call a POISON CENTER or

doctor/physician

Rinse mouth

Precautionary Statements - Storage Store locked up

Precautionary Statements - Disposal Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Hazards not otherwise classified (HNOC) N/A

Other Information

NFPA

Health hazards 2

Flammability 0

Stability 0

Physical and chemical properties -

HMIS

Health hazards 2

Flammability 0

Physical hazards 0

Personal protection -

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS No 6487-29-2

Molecular Weight 916.29

Formula (C₆H₅O₇)₂•Ba₃•7H₂O

Chemical Name Barium citrate tribasic heptahydrate

CAS No 6487-29-2

weight-% >98

Oral LD50 -

dermal LD50 -

Inhalation LC50 -

SECTION 4. FIRST AID MEASURES

First Aid Measures

General advice Consult a physician if necessary.

Remove to fresh air.

Eye contact Wash with plenty of water.

Skin Contact Wash skin with soap and water.

Inhalation Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration.

Ingestion Never give anything by mouth to an unconscious person. Clean mouth with water.

Most important symptoms and effects, both acute and delayed

Symptoms No data available.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

Suitable Extinguishing Media

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media None.

Specific hazards arising from the chemical

Specific hazards arising from the chemical

No data available.

Hazardous combustion products Carbon oxides.

Explosion data

Sensitivity to Mechanical Impact No data available.

Sensitivity to Static Discharge No data available.

Protective equipment and precautions for firefighters

Protective equipment and precautions

for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation, especially in confined areas.

Environmental precautions

Environmental precautions See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Use personal protective equipment as required. Cover powder spill with plastic sheet or tarp

to minimize spreading and keep powder dry. Take up mechanically, placing in appropriate containers for disposal. Avoid creating dust. Clean contaminated surface thoroughly.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Store at room temperature.

Incompatible materials None known based on information supplied.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Appropriate engineering controls

Engineering Controls Showers

Eyewash stations
Ventilation systems
Individual protection measures, such as personal protective equipment
Eye/face protection Wear safety glasses with side shields (or goggles).
Skin and Body Protection Wear protective gloves and protective clothing.
Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Solid
Appearance: powder
Odor: No data available
Property Values
pH No data available
Melting point/freezing point No data available
Boiling point No data available
Flash point No data available
Density No data available
Evaporation rate No data available
Upper flammability limits No data available
Lower flammability limit No data available
Vapor pressure No data available
Vapor density No data available
Specific gravity No data available
Water solubility No data available
Solubility in other solvents No data available
Partition coefficient No data available
Autoignition temperature No data available
Decomposition temperature No data available
Kinematic viscosity No data available
Explosive properties No data available
Oxidizing properties No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity N/A
Chemical stability Stable under recommended storage conditions.

Possibility of Hazardous Reactions None under normal processing.
Hazardous polymerization No data available.
Conditions to avoid Extremes of temperature and direct sunlight.
Incompatible materials Strong oxidizing agents.
Hazardous Decomposition Products Carbon oxides.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure
Inhalation No data available.
Eye contact No data available.
Skin Contact No data available.
Ingestion No data available.
Information on toxicological effects
Symptoms No data available.
Delayed and immediate effects as well as chronic effects from short and long-term exposure
Chronic Toxicity No data available.
Numerical measures of toxicity - Product Information
Unknown acute toxicity No data available
The following values are calculated based on chapter 3.1 of the GHS document
ATEmix (oral) 100 mg/kg
ATEmix (inhalation-dust/mist) 1.5 mg/l

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity May cause long lasting harmful effects to aquatic life
100% of the mixture consists of component(s) of unknown hazards to the aquatic environment.
Persistence and degradability No data available.
Bioaccumulation No data available.
Mobility No data available.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal of wastes Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated packaging Do not reuse container.

SECTION 14. TRANSPORT INFORMATION

DOT

UN/ID no UN1564

Hazard Class 6.1

Packing Group II

Proper shipping name Barium compounds, n.o.s.*

Description UN1564, Barium compounds, n.o.s.*, 6.1, II,

Emergency Response Guide Number 154

IMDG

UN/ID no UN1564

Hazard Class 6.1

Packing Group II

Proper shipping name Barium compound, n.o.s.*

Description UN1564, Barium compound, n.o.s.*, 6.1, II

Special Provisions IB8, IP2, IP4, T3, TP33

EmS-No F-A, S-A

IATA

UN/ID no UN1564

Hazard Class 6.1

Packing Group II

Proper shipping name Barium compound, n.o.s.

Description UN1564, Barium compound, n.o.s., 6.1, II

SECTION 15. REGULATORY INFORMATION

International Inventories

All of the components in the product are on the following Inventory lists

No data available

X - Listed

TSCA - United States Toxic Substances Control Act
Section 8(b) Inventory

DSL/NDL - Canadian Domestic Substances
List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing
Chemical Substances/European List of Notified
Chemical Substances

ENCS - Japan Existing and New Chemical
Substances

IECSC - China Inventory of Existing Chemical
Substances

KECL - Korean Existing and Evaluated Chemical
Substances

PICCS - Philippines Inventory of Chemicals and
Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments
and Reauthorization Act of 1986 (SARA). This product

does not contain any
chemicals which are subject to the reporting
requirements of the Act and Title 40 of the Code of
Federal Regulations, Part 372.
SARA 311/312 Hazard Categories
Acute health hazard No
Chronic Health Hazard No
Fire hazard No
Sudden release of pressure hazard No
Reactive hazard No
CWA (Clean Water Act)
This product does not contain any substances
regulated as pollutants pursuant to the Clean Water
Act (40 CFR 122.21 and 40
CFR 122.42).
US State Regulations
California Proposition 65
This product does not contain any Proposition 65
chemicals.
U.S. State Right-to-Know Regulations
This product does not contain any substances
regulated by state right-to-know regulations

16. OTHER INFORMATION

Safety Data Sheet according to Regulation (EC) No.
1907/2006 (REACH). The above information is
believed to be correct but does not purport to be all
inclusive and shall be used only as a guide. The
information in this document is based on the present
state of our knowledge and is applicable to the
product with regard to appropriate safety precautions.
It does not represent any guarantee of the properties
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