

SAFETY DATA SHEET

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SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Barium t-butoxide**

PRODUCT NUMBER: 1174-5

CAS NUMBER: 24363-36-8

SYNONYM: Barium tert-butoxide, Barium di-t-butoxide, Barium bis(tert-butoxide)

MANUFACTURER:

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SECTION 2 HAZARDS IDENTIFICATION

CLASSIFICATION OF SUBSTANCE OR MIXTURE

Flammable Solid.	Category – 1
Skin corrosion / irritation.	Category – 1
Serious eye damage / irritation.	Category – 1
Specific target organ, Respiratory	Category – 3

Pictogram 

Signal Word **Danger**

Hazard Statements

H228	Flammable solid.
H314	Causes severe skin burns and eye damage.
H335	May cause respiratory irritation.

Precautionary Phrases

P210	Keep away from heat/sparks/open flames/hot surfaces.- No smoking.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting/equipment.
P260	Do not breathe dust.
P264	Wash skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.

SECTION 2 HAZARDS IDENTIFICATION (Cont.)

P280	Wear protective gloves/protective clothing/eye protection/face protection.
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 + P310	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
P305 + P351 + P338 + P310	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

P363	Wash contaminated clothing before reuse.
P370 + P378	In case of fire: Use dry sand, dry chemical, or alcohol-resistant foam to extinguish.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: $BaC_8H_{18}O_2$

Molecular Weight: 283.55

CHEMICAL NAME	CAS#	%
Barium t-butoxide	24363-36-8	100

SECTION 4 FIRST AID MEASURES

EYE EXPOSURE: Immediately flush the eyes with copious amounts of water for at least 15 minutes. Assure flushing under eyelids. A victim may need assistance in keeping their eyelids open. Get immediate competent medical attention.
SKIN EXPOSURE: Wash affected area with water. Remove contaminated clothes if necessary. Seek medical assistance if irritation persists.
INHALATION: Remove the victim to fresh air. Closely monitor the victim for signs of respiratory problems, such as difficulty in breathing, coughing, wheezing, or pain. In such cases seek immediate medical assistance.
INGESTION: Seek medical assistance immediately. Keep the victim calm. Give the victim water (only if conscious). Induce vomiting only if directed by medical personnel.

SECTION 5 FIREFIGHTING MEASURES

FLASH POINT: No data available
AUTO IGNITION TEMPERATURE: No data available
EXPLOSION LIMITS: Not data available
EXTINGUISHING MEDIUM: Carbon dioxide or dry powder.
SPECIAL FIRE FIGHTING PROCEDURES: If involved in fire, fire fighters should be equipped with a NIOSH approved positive pressure self-contained breathing apparatus and full protective clothing.
HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS: Carbon oxides and barium oxides.

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Avoid inhalation of dusts. Ensure adequate ventilation. Keep away from heat and sources of ignition.
ENVIRONMENTAL PRECAUTIONS: Do not allow material to be released into the environment. Do not let enter drains.
METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: Avoid generation of dusts. Take up dry. Collect in proper container for disposal.

SECTION 7 HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Do not allow product to come into contact with water. Keep away from open flames, hot surfaces, and sources of ignition. Take precautionary measures against static discharge.
CONDITIONS FOR SAFE STORAGE: Air and moisture sensitive. Keep away from heat and sources of ignition. Do not allow product to come into contact with water during storage. Store in a tightly sealed container. Recommended storage temperature is 2-8° C.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

EYE PROTECTION: Always wear approved safety glasses with side shields, or safety goggles, face shield when handling a chemical substance in the laboratory. Make sure eye protection is tight fitting
SKIN PROTECTION: Wear chemical-resistant gloves to protect skin.
VENTILATION: Handle in an efficient chemical fume hood.
RESPIRATOR: Wear an approved dust respirator. The use of respirators requires a Respirator Protection Program to be in OSHA compliance with 29 CFR 19-10.134.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

COLOR AND FORM: Off-white/beige powder
MOLECULAR WEIGHT: 283.55
BOILING POINT: No data available
MELTING POINT: >200° C
SPECIFIC GRAVITY: 9.79
VAPOR PRESSURE: No data available
SOLUBILITY IN WATER: Reacts with water

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Moisture sensitive.
HAZARDOUS POLYMERIZATION: Will not occur
CONDITIONS TO AVOID: Moisture
INCOMPATIBILITY: Strong oxidizing agents
DECOMPOSITION PRODUCTS: Carbon oxides and barium oxides.

SECTION 11 TOXICOLOGICAL DATA

CARCINOGENIC EFFECTS: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen.
MUTAGENIC EFFECTS: No data
TETRATOGENIC EFFECTS: No data

To the best of our knowledge the toxicological effects of this compound have not been fully investigated.

SECTION 12 ECOLOGICAL DATA

No information available

SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of in according to local state and federal regulations.

SECTION 14 TRANSPORTATION DATA

UN3206
Alkali metal alcoholates, self-heating, corrosive, n.o.s.
(Barium t-butoxide)
4.2 (8)
PG II

SECTION 15 REGULATORY INFORMATION

TSCA: Not listed in the TSCA inventory

SARA 302/304: This material does not contain any components with a section 302 EHS TPQ. Or 304 EHS RQ.

SARA 311/312: Reactivity Hazard, Acute Health Hazard

SARA 313 COMPONENTS: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SECTION 16 OTHER INFORMATION

HMIS RATING:

Health: 0	Fire: 0	Physical: 0

NFPA RATING:

Health: 0	Flammability: 0	Reactivity: 0

CAS #: Chemical Abstracts Service Number
NIOSH: National Institute for Occupational Safety and Health
OSHA: Occupational Safety and Health Administration
UN: United Nations
n.o.s: Not Otherwise Specified
PG: Packing Group
TSCA: Toxic Substances Control Act
SARA: Superfund Amendments and Reauthorization Act
EHS TPQ: Extremely Hazardous Substance Threshold Planning Quantity
EHS RQ: Extremely Hazardous Substance Threshold Planning Quantity
HMIS: Hazardous Materials Identification System
NFPA: National Fire Protection Association

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DATE PREVIOUSLY PREPARED: 07/25
DATE REVISED: 07/26
REVISION SUMMARY: Removed Fax number. Updated section numbers # 2 categories, section # 15 SARA 302/304 and section # 16 HMIS / NRPA along with abbreviations. All other details in this document about the product remained unchanged. Updated by EHS 7/10/26

Reviewed/Approved on 7/14/26
EHS/SDS DEPT.