

Material Safety Data Sheet

Barium peroxide
MSDS# 02909

Section 1 - Chemical Product and Company Identification

MSDS Name:

Barium peroxide

Catalog Numbers:

35041-0250, 35041-5000, B/1080/53

Synonyms:

Barium dioxide; Barium superoxide.

Company Identification: Fisher Scientific UK

Bishop Meadow Road, Loughborough

Leics. LE11 5RG

For information in Europe, call:(01509) 231166

Emergency Number, Europe:01509 231166

Section 2 - Composition, Information on Ingredients

CAS#: 1304-29-6
Chemical Name: Barium peroxide
%: 95
EINECS#: 215-128-4

Hazard Symbols:

XN O

Risk Phrases:

20/22 8

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Harmful by inhalation and if swallowed. Contact with combustible material may cause fire.

Potential Health Effects

Eye:

Causes eye irritation. Causes redness and pain.

Skin:

Causes skin irritation. Causes redness and pain. May be harmful if absorbed through the skin.

Ingestion:

Harmful if swallowed. May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May cause muscle weakness, convulsions, and respiratory paralysis.

Inhalation:

Harmful if inhaled. Inhalation of dust causes severe irritation of the nose and throat.

Chronic:

Section 4 - First Aid Measures

Eyes:

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin:

Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion:

Get medical aid. Wash mouth out with water.

Inhalation:

Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician:

Section 5 - Fire Fighting Measures

General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Strong oxidizer. Contact with other material may cause fire.

Extinguishing Media:

Do NOT use water directly on fire. Use dry chemical to fight fire.

Section 6 - Accidental Release Measures

General Information:

Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions. Keep combustibles (wood, paper, oil, etc.,) away from spilled material.

Section 7 - Handling and Storage

Handling:

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep from contact with clothing and other combustible materials. Avoid breathing dust. Inform laundry personnel of contaminant's hazards.

Storage:

Do not store near combustible materials. Store in a cool, dry place. Store in a tightly closed container. Avoid storage on wood floors.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

CAS# 1304-29-6:

Personal Protective Equipment

Eyes:

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin:

Wear appropriate protective gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators:

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State: Powder
Color: white
Odor: odorless
pH: Not available
Vapor Pressure: Not available
Viscosity: Not available
Boiling Point: Not available
Freezing/Melting Point: 450 deg C (842.00F)
Autoignition Temperature: Not available
Flash Point: Not available
Explosion Limits: Lower:Not available
Explosion Limits: Upper:Not available
Decomposition Temperature:
Solubility in water: 0.5 g/l
Specific Gravity/Density: 4.96 g/cm3
Molecular Formula: BaO2
Molecular Weight: 169.33

Section 10 - Stability and Reactivity

Chemical Stability:
Stable at normal temperatures in tightly closed containers under an inert atmosphere.
Conditions to Avoid:
Dust generation, moisture, excess heat, combustible materials, prolonged exposure to air.
Incompatibilities with Other Materials
Not available
Hazardous Decomposition Products
Oxygen.
Hazardous Polymerization
Has not been reported.

Section 11 - Toxicological Information

RTECS#:
CAS# 1304-29-6: CR0175000
LD50/LC50:
Not available
Carcinogenicity:
Barium peroxide -
Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
Other:
The hazards associated with barium may be seen in this product.

Section 12 - Ecological Information

Not available

Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - Transport Information

IATA

Shipping Name: BARIUM PEROXIDE
Hazard Class: 5.1 (6.1)
UN Number: 1449
Packing Group: II

IMO

Shipping Name: BARIUM PEROXIDE
Hazard Class: 5.1 (6.1)
UN Number: 1449
Packing Group: II

RID/ADR

Shipping Name: BARIUM PEROXIDE
Hazard Class: 5.1 (6.1)
UN Number: 1449
Packing Group: II

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: XN O

Risk Phrases:

R 20/22 Harmful by inhalation and if swallowed.
R 8 Contact with combustible material may cause fire.

Safety Phrases:

S 13 Keep away from food, drink and animal feeding stuffs.
S 27 Take off immediately all contaminated clothing.

WGK (Water Danger/Protection)

CAS# 1304-29-6: 1

Canada

CAS# 1304-29-6 is listed on Canada's DSL List

US Federal

TSCA

CAS# 1304-29-6 is listed on the TSCA Inventory.

Section 16 - Other Information

MSDS Creation Date:

7/19/2000

Revision #2 Date

10/03/2005

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