



Material Safety Data Sheet

Barium peroxide

MSDS# 02909

Section 1 - Chemical Product and Company Identification

MSDS Name: Barium peroxide  
Catalog Numbers: AC350410000, AC350410250, AC350415000  
Synonyms: Barium dioxide; Barium superoxide.

Company Identification: Acros Organics BVBA  
Janssen Pharmaceuticaaan 3a  
2440 Geel, Belgium

Company Identification: (USA) Acros Organics  
One Reagent Lane  
Fair Lawn, NJ 07410

For information in the US, call: 800-ACROS-01  
For information in Europe, call: +32 14 57 52 11  
Emergency Number, Europe: +32 14 57 52 99  
Emergency Number US: 201-796-7100  
CHEMTREC Phone Number, US: 800-424-9300  
CHEMTREC Phone Number, Europe: 703-527-3887

Section 2 - Composition, Information on Ingredients

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

XN O



Risk Phrases:

20/22 8

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Danger! Strong oxidizer. Contact with other material may cause a fire. Harmful if inhaled or swallowed. Causes eye, skin, and respiratory tract irritation. Target Organs: Kidneys, heart, liver, spleen, gastrointestinal system, bone marrow, nerves.

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.

Autoignition Temperature: Not available

Flash Point: Not available

Explosion Limits: Lower: Not available

Explosion Limits: Upper: Not available

NFPA Rating: ; instability: OX

#### 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

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Barium peroxide	none listed	none listed	none listed

OSHA Vacated PELs: Barium peroxide: None listed

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

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

Vapor Density: Not available

Evaporation Rate: Not available

Viscosity: Not available

Boiling Point: Not available

Freezing/Melting Point: 450 deg C ( 842.00°F)

Decomposition Temperature:

Solubility in water: 0.5 g/l

Specific Gravity/Density: 4.96 g/cm<sup>3</sup>

Molecular Formula: BaO<sub>2</sub>

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:	RTECS: 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

US DOT

Shipping Name: BARIUM PEROXIDE

Hazard Class: 5.1

UN Number: UN1449

Packing Group: II

Canada TDG

Shipping Name: Barium Peroxide

Hazard Class: 5.1

UN Number: UN1449

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

Canadian WHMIS Classifications: C, D1B

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

CAS# 1304-29-6 is not listed on Canada's Ingredient Disclosure 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 #4 Date 7/20/2009

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.

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