

## MATERIAL SAFETY DATA SHEET (MSDS)

### BISMUTH OXIDE LR

#### 1 - Chemical Product

MSDS Name: Bismuth(III) oxide  
Synonym: Bismuth trioxide; Bismuthous oxide; Bismuth yellow

Cas No: 1304-76-3

Product Coad: B0044300500

Molecular Formula: Bi<sub>2</sub>O<sub>3</sub>  
Molecular Weight: 465.96

#### 2 - COMPOSITION, INFORMATION ON INGREDIENTS

CAS#	Chemical Name	content	EINECS#
1304-76-3	Bismuth trioxide	>99	215-134-7

#### 3 - HAZARDS IDENTIFICATION

##### EMERGENCY OVERVIEW

Not available.

Potential Health Effects

Eye: May cause eye irritation.

Skin: May cause skin irritation.

Ingestion: May cause irritation of the digestive tract. May cause liver and kidney damage.

Inhalation: May cause respiratory tract irritation.

Chronic: May cause liver and kidney damage.

#### 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: Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists. Wash clothing before reuse.

Ingestion: Get medical aid. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or 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 if cough or other symptoms appear.

Notes to Physician:

#### 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.

Extinguishing Media:

Use extinguishing media most appropriate for the surrounding fire.

#### 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. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions.

Provide ventilation.

#### 7 - HANDLING and STORAGE

Handling: Wash thoroughly after handling. Use with adequate ventilation.

Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

Storage: Store in a tightly closed container.

#### 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.

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Exposure Limits CAS# 1304-76-3: 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 minimize contact with skin.

Respirators:

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

**9 - PHYSICAL AND CHEMICAL PROPERTIES**

Physical State: Solid

Color: yellow

Odor: odorless

pH: Not available.

Vapor Pressure: Not available.

Viscosity: Not available.

Boiling Point: Not available.

Freezing/Melting Point: 825 deg C

Autoignition Temperature: Not applicable.

Flash Point: Not applicable.

Explosion Limits, lower: Not available.

Explosion Limits, upper: Not available.

Decomposition Temperature: Not available.

Solubility in water: practically insoluble in water.

Specific Gravity/Density: 8.8

**10 - STABILITY AND REACTIVITY**

Chemical Stability:Stable under normal temperatures and pressures.

Conditions to Avoid:Dust generation.

Incompatibilities with Other Materials:No significant incompatibilities identified with common materials and contaminants..

Hazardous Decomposition Products:None.

Hazardous Polymerization: Has not been reported.

**11 - TOXICOLOGICAL INFORMATION**

RTECS#:

CAS# 1304-76-3: EB2984460 LD50/LC50:

CAS# 1304-76-3: Oral, mouse: LD50 = 10 gm/kg; Oral, rat: LD50 = 5000 mg/kg.

Carcinogenicity:

Bismuth trioxide - Not listed by ACGIH, IARC, or NTP.

Other:

See actual entry in RTECS for complete information.

**12 - ECOLOGICAL INFORMATION****13 - DISPOSAL CONSIDERATIONS**

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

**14 - TRANSPORT INFORMATION**

Not regulated.

**15 - REGULATORY INFORMATION**

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: Not available.

Risk Phrases:

Safety Phrases:

S 24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection)

CAS# 1304-76-3: 1

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**MATERIAL SAFETY DATA SHEET (MSDS)****BISMUTH OXIDE LR**

Canada  
CAS# 1304-76-3 is listed on Canada's DSL List.  
CAS# 1304-76-3 is not listed on Canada's Ingredient Disclosure List.  
US FEDERAL  
TSCA  
CAS# 1304-76-3 is listed on the TSCA inventory.

**16. Other Information**

**Product Use:** Laboratory Reagent.

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

**DISCLAIMER:**

- **SUVCHEM** Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
- **SUVCHEM** shall not be responsible for any damage resulting from handling or from contact with the above product.
- **SUVCHEM** provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

**End of document**