

Barium & Chemicals, Inc.

Safety Data Sheet

Revision: 4

Revision Date: 8/17/2016

1.) Identification

Product Name: **Barium Oxalate**
Product Number: BA1400
Product Formula: BaC_2O_4

Manufacturer: Barium & Chemicals, Inc.
PO Box 218
515 Kingsdale Road
Steubenville, Ohio 43952-5218

Phone: 740-282-9776
Fax: 740-282-9161
Web: www.bariumchemicals.com

Emergency Phone: Chemtrec 800-424-9300
International: 703-527-3887

2.) HAZARDS IDENTIFICATION

Emergency Overview

OSHA Hazards

Target Organ Effect, Toxic by inhalation, Harmful by ingestion, Harmful by skin absorption.

Target Organs

Heart, Nerves, Kidney, Gastrointestinal tract, Liver, Spleen, Bone marrow

GHS Classifications

Acute toxicity, Oral (Category 4)

Acute toxicity, Inhalation (Category 4)

Acute toxicity, Dermal (Category 4)

GHS Label Elements, Including Precautionary Statements

Pictogram



Signal Word Warning

Hazard Statement(s)

H302+H312

Harmful if swallowed or in contact with skin.

H332

Harmful if inhaled.

Precautionary Statement(s)

P280

Wear protective gloves/protective clothing.

HMIS Classification

Health Hazard 2

Flammability 0

Physical Hazards 0

Chronic Health Hazard *

NFPA Rating

Health Hazard	2
Fire	0
Reactivity Hazard	0

Potential Health Effects

Inhalation	Toxic if inhaled. May cause respiratory tract irritation.
Skin	May cause skin irritation.
Eyes	May cause eye irritation.
Ingestion	Toxic if swallowed.

3.) INFORMATION ON INGREDIENTS

EINECS	PERCENT	CAS NO:
208-216-9	100%	516-02-9
EINECS	PERCENT	CAS NO:

4.) FIRST AID MEASURES**Inhalation**

Move to fresh air. If breathing becomes troublesome, get medical attention.

Skin Contact

Wash with soap and water. Get medical attention if redness and irritation persists.

Eye Contact

Flush with large amounts of water to remove all trace of chemical from eyes (at least 15-20 minutes). Get medical attention.

Ingestion Contact

Get medical attention immediately.

5.) FIRE FIGHTING MEASURES**Extinguishing Media**

Water, water spray, or foam.

Special Fire Fighting Procedures

Move containers from fire if it can be done without risk.

Fire and Explosion Hazards

Not applicable.

Hazardous Combustion Products

Reacts with strong acids to form oxalic acid. Runoff water may be corrosive and toxic.

Protective Measure in Fire

Avoid contact and dike area for later disposal. Prevent runoff from entering natural waterways.

6.) ACCIDENTAL RELEASE MEASURES**Personal Precaution in Spill**

Avoid contact with material. Wear personal protective equipment as outlined in Section 8.

Environment

Dike ahead of large spill to prevent material from entering natural waterways. Restrict access to spill area.

Spill Clean Up

Sweep up carefully to remove as much uncontaminated material as possible. Contaminated material is considered a toxic waste and must be disposed of in a licensed toxic waste dump.

7.) HANDLING AND STORAGE

Usage Precautions**Usage Descriptions****Storage Precautions****Handling Precautions**

Store away from strong acids. Wash hands before eating or smoking. No eating or smoking in work area.

8.) EXPOSURE CONTROLS AND PERSONAL PROTECTION**Protective Equipment**

Use adequate ventilation to meet exposure limits. Where exposure limits may be exceeded, use OSHA approved respirator.

Process Conditions

Threshold Limit Value: TWA air (Barium compounds) 500 mg/m³

Respirators

Use OSHA approved respirator.

Protective Gloves

Wear general purpose gloves.

Eye Protection

Wear chemical safety goggles.

Other Protection

Wear full cover protective clothing.

Hygienic Work Practices

No smoking or eating in work area.

9.) PHYSICAL AND CHEMICAL PROPERTIES**a) Appearance (physical state, color, etc.)**

White powder

b) Odor

odorless

c) Odor threshold

No data available

d) pH

No data available

e) Melting Point/freezing point

400 C (752 F)

f) Initial boiling Point and boiling range

No data available

g) Flash Point

Not applicable

h) Evaporation rate

No data available

i) Flammability (solid,gas)

No data available

j) Upper/lower flammability or explosive limits

No data available

k) Vapor pressure

No data available

l) Vapor density

No data available

m) Relative density2.658 g/cm³**n) Solubility(ies)**

soluble in water 0.093 g/l

o) Partition coefficient: n-octanol/water

No data available

p) Auto-ignition temperature

No data available

q) Decomposition temperature

No data available

r) Viscosity

No data available

s) Specific Gravity

No data available

10.) STABILITY AND REACTIVITY

Stability

Stable.

Hazardous Decomp Products

Reacts with strong acids to form Oxalic acid.

Conditions to Avoid

Moisture. Contact with strong acids, and oxidizing agents.

11.) TOXICOLOGICAL INFORMATION

Toxic Dose LD 50

No information found.

Toxicological Info

Severe irritation if ingested - severe gastroenteritis with vomiting and diarrhea. Renal damage can result.

Inhalation

No information found.

Skin

No information found.

Eyes

No information found.

Medical Symptoms

No information found.

12.) ECOLOGICAL INFORMATION

Toxicity

No information found.

Distribution

No information found.

Chemical Fate

No information found.

13.) DISPOSAL CONSIDERATIONS

Disposal Methods

Contaminated residue and sweepings are considered toxic waste and must be disposed of in a licensed toxic waste dump. If quantities are large enough to be significant, contact manufacturer for proper treatment.

General Cleaning

14.) TRANSPORTATION INFORMATION

DOT - GROUND TRANSPORTATION

Proper Shipping Name

Barium Compounds, N.O.S. (Barium Oxalate)

Hazzard Class

6.1

UN Number

UN1564

Packing Group

III

IATA/IMDG REGULATIONS

Proper Shipping Name

Barium Compounds, N.O.S. (Barium Oxalate)

Hazzard Class

6.1

UN Number

UN1564

Packing Group

III

IMDG EMS

6.1

Shipping Options for this product include



Transportation Notes NMFC 45465-1-- CLASS 77.5

HST 2917.11.00.00

15.) REGULATORY INFORMATION

Chemical Inventory Status Part 1

Ingredient	CASNO	TSCA	EINECS	China	Japan	Australia
Barium Oxalate	516-02-9	No	No	No	No	No

Chemical Inventory Status Part 2

Ingredient	CASNO	Korea	DSL	NDSL	Phil.
Barium Oxalate	516-02-9	No	No	No	No

Federal, State, International Regulations- Part 1

Ingredient	CASNO	SARA 302
		RQ TPQ LIST
Barium Oxalate	516-02-9	No No No

SARA 313

No information found.

Federal, State, International Regulations- Part 2

Ingredient	CASNO	RCRA 261.33	TSCA 8(d)	CERCLA
Barium Oxalate	516-02-9	No	No	No

Additional Items

Chemical Weapons Convention		Acute	TSCA 12(b)	CDTA	SARA 311/312	Reactivity	Chronic
No		No	No	No	No	No	No
Fire	Pressure	Australian HazChem Code			Poison Schedule		WHMIS
No	No	No			No		No

16.) MISC. INFORMATION

Information Sources**Revision Comments**

Revised November 2012 for GHS Standards. Updated 2-20-15 Revised February 2014 to align with internal document control Updated 8-17-2016

Other Information

17.) DISCLAIMER

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