

Barium cyanide; CASRN 542-62-1

Human health assessment information on a chemical substance is included in the IRIS database only after a comprehensive review of toxicity data, as outlined in the [IRIS assessment development process](#). Sections I (Health Hazard Assessments for Noncarcinogenic Effects) and II (Carcinogenicity Assessment for Lifetime Exposure) present the conclusions that were reached during the assessment development process. Supporting information and explanations of the methods used to derive the values given in IRIS are provided in the [guidance documents located on the IRIS website](#).

STATUS OF DATA FOR Barium cyanide

File First On-Line 01/31/1987

Category (section)	Assessment Available?	Last Revised
Oral RfD (I.A.)	withdrawn	03/01/1991*
Inhalation RfC (I.B.)	not evaluated	
Carcinogenicity Assessment (II.)	not evaluated	

*A comprehensive review of toxicological studies was completed (2004) — please see section I.A. for more information.

I. Chronic Health Hazard Assessments for Noncarcinogenic Effects

I.A. Reference Dose for Chronic Oral Exposure (RfD)

Substance Name — Barium cyanide
CASRN — 542-62-1

The Oral RfD for this substance has been withdrawn pending further review by the RfD/RfC Work Group.

Agency Work Group Review — 08/05/1985, 02/20/1991, 07/20/1993

A comprehensive review of toxicological studies published prior to 2004 indicated that there is insufficient health effects data to derive an RfD for Barium Cyanide at this time.

EPA Contacts:

Please contact the IRIS Hotline for all questions concerning this assessment or IRIS, in general, at (202)566-1676 (phone), (202)566-1749 (FAX) or hotline.iris@epa.gov (internet address).

I.B. Reference Concentration for Chronic Inhalation Exposure (RfC)

Substance Name — Barium cyanide
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Not available at this time.

II. Carcinogenicity Assessment for Lifetime Exposure

Substance Name — Barium cyanide
CASRN — 542-62-1

This substance/agent has not undergone a complete evaluation and determination under US EPA's IRIS program for evidence of human carcinogenic potential.

III. [reserved]

IV. [reserved]

V. [reserved]

VI. Bibliography

Substance Name — Barium cyanide
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Not available at this time.

VII. Revision History

Substance Name — Barium cyanide
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Date	Section	Description
03/01/1991	I.A.	Oral RfD withdrawn pending additional review
12/03/2002	I.A.	Screening-Level Literature Review Findings message has been added.
09/29/2004	I.A.	Screening-Level Literature Review Findings message has been removed and replaced by comprehensive literature review conclusions.

VIII. Synonyms

Substance Name — Barium cyanide
CASRN — 542-62-1
Last Revised — 01/31/1987

- 542-62-1
- Barium Cyanide
- BARIUM DICYANIDE
- RCRA WASTE NUMBER P013
- UN 1565