

## Diethyl sulfate; CASRN 64-67-5

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 Diethyl sulfate

**File First On-Line 11/01/1991**

Category (section)	Assessment Available?	Last Revised
Oral RfD (I.A.)	not evaluated	
Inhalation RfC (I.B.)	message	11/01/1991
Carcinogenicity Assessment (II.)	not evaluated	

## I. Chronic Health Hazard Assessments for Noncarcinogenic Effects

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

Substance Name — Diethyl sulfate  
CASRN — 64-67-5

Not available at this time.

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

Substance Name — Diethyl sulfate  
CASRN — 64-67-5

The health effects data for diethyl sulfate were reviewed by the U.S. EPA RfD/RfC Work Group and determined to be inadequate for derivation of an inhalation RfC. For additional information on the health effects of this chemical, interested parties are referred to the EPA documentation listed below.

U.S. EPA. 1989. Reportable Quantity Document for Diethyl Sulfate. Prepared by the Office of Health and Environmental Assessment, Environmental Criteria and Assessment Office, Cincinnati, OH for the Office of Solid Waste and Emergency Response.

Agency Work Group Review — 09/12/1991

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](mailto:hotline.iris@epa.gov) (internet address).

Screening-Level Literature Review Findings — A screening-level review conducted by an EPA contractor of the more recent toxicology literature pertinent to the RfC for Diethyl sulfate conducted in August 2003 did not identify any critical new studies. IRIS users who know of important new studies may provide that information to the IRIS Hotline at [hotline.iris@epa.gov](mailto:hotline.iris@epa.gov) or 202-566-1676.

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## **II. Carcinogenicity Assessment for Lifetime Exposure**

Substance Name — Diethyl sulfate  
CASRN — 64-67-5

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

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**III. [reserved]**

**IV. [reserved]**

**V. [reserved]**

## VI. Bibliography

Substance Name — Diethyl sulfate  
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### VI.A. Oral RfD References

None

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### VI.B. Inhalation RfC References

U.S. EPA. 1989. Reportable Quantity Document for Diethyl Sulfate. Prepared by the Office of Health and Environmental Assessment, Environmental Criteria and Assessment Office, Cincinnati, OH for the Office of Solid Waste and Emergency Response.

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### VI.C. Carcinogenicity Assessment References

None

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## VII. Revision History

Substance Name — Diethyl sulfate  
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Date	Section	Description
11/01/1991	I.B.	Inhalation RfC message on-line
10/28/2003	I.B.	Screening-Level Literature Review Findings message has been added.

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## VIII. Synonyms

Substance Name — Diethyl sulfate

CASRN — 64-67-5

Last Revised — 11/01/1991

- 64-67-5
- Sulfuric acid, diethyl ester
- Diethyl sulfate
- Diethylsulfate
- AI3-15355
- CCRIS 242
- Diaethylsulfat [German]
- Diethyl sulphate
- DIETHYLESTER KYSELINY SIROVE [Czech]
- DS
- ethyl sulfate
- HSDB 1636
- Sulfate de diethyle [French]
- Sulfato de dietilo [Spanish]