Tribromochloromethane; CASRN 594-15-0

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 Tribromochloromethane

File First On-Line 03/01/1991

<table>
<thead>
<tr>
<th>Category (section)</th>
<th>Assessment Available?</th>
<th>Last Revised</th>
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<tr>
<td>Inhalation RfC (I.B.)</td>
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<tr>
<td>Carcinogenicity Assessment (II.)</td>
<td>yes</td>
<td>03/01/1991*</td>
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*A comprehensive review of toxicological studies was completed (July 14, 2006) - please see section II.D.2. for more information.

I. Chronic Health Hazard Assessments for Noncarcinogenic Effects

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

Substance Name — Tribromochloromethane
CASRN — 594-15-0

Not available at this time.
I.B. Reference Concentration for Chronic Inhalation Exposure (RfC)

Substance Name — Tribromochloromethane
CASRN — 594-15-0

Not available at this time.

II. Carcinogenicity Assessment for Lifetime Exposure

Substance Name — Tribromochloromethane
CASRN — 594-15-0
Last Revised — 03/01/1991

Section II provides information on three aspects of the carcinogenic assessment for the substance in question; the weight-of-evidence judgment of the likelihood that the substance is a human carcinogen, and quantitative estimates of risk from oral exposure and from inhalation exposure.

The quantitative risk estimates are presented in three ways. The slope factor is the result of application of a low-dose extrapolation procedure and is presented as the risk per (mg/kg)/day. The unit risk is the quantitative estimate in terms of either risk per ug/L drinking water or risk per ug/cu.m air breathed. The third form in which risk is presented is a drinking water or air concentration providing cancer risks of 1 in 10,000, 1 in 100,000 or 1 in 1,000,000. The rationale and methods used to develop the carcinogenicity information in IRIS are described in The Risk Assessment Guidelines of 1986 (EPA/600/8-87/045) and in the IRIS Background Document. IRIS summaries developed since the publication of EPA's more recent Proposed Guidelines for Carcinogen Risk Assessment also utilize those Guidelines where indicated (Federal Register 61(79):17960-18011, April 23, 1996). Users are referred to Section I of this IRIS file for information on long-term toxic effects other than carcinogenicity.

II.A. Evidence for Human Carcinogenicity

II.A.1. Weight-of-Evidence Characterization

Classification — D; not classifiable as to human carcinogenicity.

Basis — Based on no human or animal cancer data.

II.A.2. Human Carcinogenicity Data

None.
II.A.3. Animal Carcinogenicity Data

None.

II.A.4. Supporting Data for Carcinogenicity

None.

II.B. Quantitative Estimate of Carcinogenic Risk from Oral Exposure

None.

II.C. Quantitative Estimate of Carcinogenic Risk from Inhalation Exposure

None.

II.D. EPA Documentation, Review, and Contacts (Carcinogenicity Assessment)

II.D.1. EPA Documentation


The 1985 Health and Environmental Effects Profile for Bromochloromethanes has received external peer review and Agency Review.

II.D.2. EPA Review (Carcinogenicity Assessment)

Agency Work Group Review — 01/10/1991

Verification Date — 01/10/1991

A comprehensive review of toxicological studies published through July 2006 was conducted. No new health effects data were identified that would be directly useful in the revision of the existing carcinogenicity assessment for Tribromochloromethane and a change in the assessment is not warranted at this time. For more information, IRIS users may contact the IRIS Hotline at hotline.iris@epa.gov or 202-566-1676.
II.D.3. EPA Contacts (Carcinogenicity Assessment)

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).

III. [reserved]
IV. [reserved]
V. [reserved]

VI. Bibliography

Substance Name — Tribromochloromethane
CASRN — 594-15-0

VI.A. Oral RfD References

None

VI.B. Inhalation RfC References

None

VI.C. Carcinogenicity Assessment References

VII. Revision History

Substance Name — Tribromochloromethane
CASRN — 594-15-0

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<th>Section</th>
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<td>09/28/2006</td>
<td>II.D.2</td>
<td>Screening-Level Literature Review Findings message has been removed and replaced by comprehensive literature review conclusions.</td>
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VIII. Synonyms

Substance Name — Tribromochloromethane
CASRN — 594-15-0
Last Revised — 03/01/1991

- 594-15-0
- Methane, tribromochloro-