

Safety Data Sheet (SDS) 3/10/2025: Reviewed file, more current MSDS/SDS not available. CAS

## SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Tris-(hydroxymethyl)aminomethane

Signal Word  
**WARNING**

Flinn Scientific, Inc. P.O. Box 219, Batavia, IL 60510 (800) 452-1261

Chemtrec Emergency Phone Number: (800) 424-10456

Pictograms

## SECTION 2 — HAZARDS IDENTIFICATION

Hazard class: Skin and serious eye damage, corrosion or irritation (Category 2, 2A). Causes skin and serious eye irritation (H315+H319).



Hazard class: Specific target organ toxicity, single exposure; respiratory tract irritation (Category 3). May cause respiratory irritation (H335). Avoid breathing dust or fumes (P261).

## SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Tris(hydroxymethyl)aminomethane	77-86-1	(CH <sub>2</sub> OH) <sub>3</sub> CNH <sub>2</sub>	121.14	
Synonyms: 2-amino-2-(hydroxymethyl)-1,3-propanediol; THAM				

## SECTION 4 — FIRST AID MEASURES

Call a POISON CENTER or physician if you feel unwell (P312).

**If inhaled:** Remove victim to fresh air and keep at rest in a position comfortable for breathing (P304+P340).

**If in eyes:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing.

**If on skin:** Wash with plenty of water (P302+P352). **If skin irritation occurs:** Get medical advice or attention (P332+P313).

**If swallowed:** Rinse mouth. Call a POISON CENTER or physician if you feel unwell.

## SECTION 5 — FIRE FIGHTING MEASURES

Combustible solid.

When heated to decomposition, may emit toxic fumes.

NFPA Code  
None established

In case of fire: Use a tri-class dry chemical fire extinguisher.

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## **SECTION 6 — ACCIDENTAL RELEASE MEASURES**

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Remove all ignition sources. Do not allow solid to become airborne. Ventilate area. Wipe up, place in sealed bag or container and dispose. Wash spill site after material pickup is complete. See Sections 8 and 13 for further information.

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## **SECTION 7 — HANDLING AND STORAGE**

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Flinn Suggested Chemical Storage Pattern: Organic #2. Store with alcohols, glycols, amines and amides.

Hygroscopic. Store in a cool, dry place within a Flinn Chem-Saf™ bag.

Keep container tightly closed (P233). Use only in a hood or well-ventilated area (P271).

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## **SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION**

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Wear protective gloves, protective clothing, and eye protection (P280). Wash hands thoroughly after handling (P264). Use only in a hood or well-ventilated area (P271).

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## **SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

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White crystalline solid. Odorless.

Boiling point: 219 - 220 °C

Soluble: Water and alcohol

Melting point: 171-172 °C

pH: 10.4 (in 0.1 M solution)

Initial boiling point: 219-220 °C

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## **SECTION 10 — STABILITY AND REACTIVITY**

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Avoid contact with bases and oxidizers.

Shelf life: Poor, hygroscopic. See Section 7 for further information.

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## **SECTION 11 — TOXICOLOGICAL INFORMATION**

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Acute effects: Skin, eye, and respiratory tract irritant.

ORL-RAT LD<sub>50</sub>: 5900 mg/kg

Chronic effects: N.A.

IHL-RAT LC<sub>50</sub>: N.A.

Target organs: Skin, eyes, and respiratory tract.

SKN-RBT LD<sub>50</sub>: N.A.

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## **SECTION 12 — ECOLOGICAL INFORMATION**

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Data not yet available.

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## **SECTION 13 — DISPOSAL CONSIDERATIONS**

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Please review all federal, state and local regulations that may apply before proceeding.

Flinn Suggested Disposal Method #26a is one option.

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## **SECTION 14 — TRANSPORT INFORMATION**

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Shipping name: Not regulated. Hazard class: N/A. UN number: N/A.

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## **SECTION 15 — REGULATORY INFORMATION**

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TSCA-listed, EINECS-listed (201-064-4).

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## **SECTION 16 — OTHER INFORMATION**

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PRODUCT(S).

N.A. = Not available, not all health aspects of this substance have been fully investigated.

N/A = Not applicable

**Consult your copy of the Flinn Science Catalog/Reference Manual for additional information about laboratory chemicals.**

**Revision Date:** January 4, 2016

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