

3/3/2025: File reviewed, more current MSDS/SDS not available. CAS

Safety Data Sheet (SDS)

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Thermit Igniting Stick

Signal Word
DANGER

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

Chemtrec Emergency Phone Number: (800) 424-10427

Pictograms

SECTION 2 — HAZARDS IDENTIFICATION

Hazard class: Flammable solids (Category 1 or 2). Flammable solid (H228). Keep away from heat, sparks, open flames, and hot surfaces. No smoking (P210).



SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Thermit igniting stick (A proprietary mixtures of barium nitrate, aluminum, iron oxide, dextrin, copper)	None established			
Note: Percent composition of each ingredient is protected under confidential business information clause of GHS.				

SECTION 4 — FIRST AID MEASURES

Call a POISON CENTER or physician if you feel unwell.

If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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.

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

SECTION 5 — FIRE FIGHTING MEASURES

Classification C explosive (Ex - 8903001) solid.

NFPA Code

Dangerous fire risk; once reaction has started, it is very difficult to stop.
In case of fire: Use a Class D or dry sand as a fire extinguisher. Avoid water contact, violent reaction with water.

H: 2
F: 1
R: 1
No Water

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Remove all ignition sources and water. Sweep up, place in sealed bag or container and dispose. Ventilate area and wash spill site after material pickup is complete. See Sections 8 and 13 for further information.

SECTION 7 — HANDLING AND STORAGE

Flinn Suggested Chemical Storage Pattern: Inorganic #1. Store with metals and metal hydrides.

Store in Flinn Saf-Stor™ can inside a dedicated flammables cabinet.

Ground or bond container and receiving equipment (P240).

Use explosion-proof electrical and ventilating equipment (P241).

SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Wear dark safety glasses when igniting thermit or using thermit ignition sticks. Wear protective gloves, protective clothing, and eye protection (P280). Wash hands thoroughly after handling.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Silver-gray metallic material on a copper stick.

Odorless.

Mixture of aluminum, barium nitrate, iron oxide and binder (dextrin) on a copper stick.

SECTION 10 — STABILITY AND REACTIVITY

Avoid all sources of ignition, heat (i.e. open flame, sparks), and moisture.

Shelf life: Good, if stored properly.

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: N.A.

ORL-RAT LD₅₀: N.A.

Chronic effects: N.A.

IHL-RAT LC₅₀: N.A.

Target organs: N.A.

SKN-RBT LD₅₀: N.A.

SECTION 12 — ECOLOGICAL INFORMATION

Data not yet available.

SECTION 13 — DISPOSAL CONSIDERATIONS

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

Place in a pile of clean dry sand and ignite is one option.

SECTION 14 — TRANSPORT INFORMATION

Shipping name: Igniters; Hazard class: 1.4. Explosive; UN number: UN0454

SECTION 15 — REGULATORY INFORMATION

Not listed.

SECTION 16 — OTHER INFORMATION

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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.

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