# FLINN SCIENTIFIC, INC. Safety Data Sheet (SDS)

**SDS #:** 811.00

**Revision Date:** December 13, 2013

## SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

## **Thermit**

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

CHEMTREC Emergency Phone Number: (800) 424-9300 Signal Word DANGER

#### **Pictograms**

#### **SECTION 2 — HAZARDS IDENTIFICATION**

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

On ignition the reaction produces a temperature of approximately 2200 °C which will soften steel. A typical oxide/metal reaction which provides its own oxygen supply and is very, very, difficult to stop.

| July      |  |
|-----------|--|
| <u>E3</u> |  |
|           |  |

SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

| Component Name  | CAS Number | Formula | Formula<br>Weight | Concentration |
|---|------------|---------|-------------------|---------------|
| Thermit, Black (a proprietary mixture of iron oxide, aluminum, ferro manganese, and ferro vanadium) | 69012-31-3 |         |                   |               |

#### **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. 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**

Flammable solid.

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.

NFPA Code None

established

## **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.

Safety Data Sheet

**Thermit** 

**SDS #:** 811.00

**Revision Date:** December 13, 2013

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

Flinn Suggested Chemical Storage Pattern: Inorganic #4. Store with hydroxides, oxides, silicates and carbonates. Store in Flinn Saf-Stor<sup>TM</sup> can inside a dedicated flammables cabinet. 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. Wash thoroughly after handling.

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

Black powder. Odorless.

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

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

Shelf life: Good, if stored properly.

## **SECTION 11 — TOXICOLOGICAL INFORMATION**

Acute effects: N.A. ORL-RAT  $LD_{50}$ : N.A. Chronic effects: N.A. IHL-RAT  $LC_{50}$ : N.A. Target organs: N.A. SKN-RBT  $LD_{50}$ : N.A.

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

#### **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.

Flinn Suggested Disposal Method #26a is one option.

## **SECTION 14 — TRANSPORT INFORMATION**

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

N/A = Not applicable

## **SECTION 15 — REGULATORY INFORMATION**

Not listed.

### SECTION 16 — OTHER INFORMATION

This Safety Data Sheet (SDS) is for guidance and is based upon information and tests believed to be reliable. Flinn Scientific, Inc. makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating therefot. The data is offered solely for your consideration, investigation, and verification. The data should not be confused with local, state, federal or insurance mandates, regulations, or requirements and CONSTITUTE NO WARRANTY. Any use of this data and information must be determined by the science instructor to be in accordance with applicable local, state or federal laws and regulations. The conditions or methods of handling, storage, use and disposal of the product(s) described are beyond the control of Flinn Scientific, Inc. and may be beyond our knowledge. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THIS PRODUCT(S).

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