## **Material Safety Data Sheet**



## **Thermit**

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# Carolina Biological Supply Company

UHRULINA www.carolina.com

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## **Section 1 - Product Description**

**Product Name:** Thermit Black **Product Code(s):** 89-5800

**Size:** 500g

Chemical Name: Thermit Black

CAS Number: N/A

**Formula:** Fe2O3 + Al (approx. 3:1) **Synonyms:** Thermit Welding Powder

Distributor: Carolina Biological Supply Company, 2700 York Road, Burlington, NC 27215

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F) Chemtrec 800-424-9300 (Transportation Spill Response 24

hours)

#### **Section 2 - Hazard Identification**

Emergency Overview: May cause fire. Keep away from heat.

**Potential Health Effects:** 

Eyes: Causes severe burns and eye damage upon direct

contact. Vapor is irritating.

**Ingestion:** May severely irritate or damage digestive tract.

**Skin:** May cause irritation to skin.

**Inhalation:** May severely irritate or damage mucous

membranes and respiratory tract.

## **Section 3 - Composition / Information on Ingredients**

Principal Hazardous Components: Iron Oxide (CAS # 1309-37-1) 75%; Aluminum Metal Powder (CAS # 7429-90-5) 25%;

Thermit Black 100%

TLV units: (Aluminum) OSHA-PEL 10 mg/m3 TWA

(Ferric Oxide) ACGIH-TLV 5 mg/m3 TWA

PEL units: (Ferric Oxide) OSHA-PEL 10 mg/m3 TWA

### **Section 4 - First Aid Measures**

#### **Emergency and First Aid Procedures:**

Eyes - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**Skin** - After contact with skin, wash immediately with plenty of water.

**Ingestion** - If swallowed, if conscious, give plenty of water and induce vomiting immediately as directed by medical personnel. Immediately call a physician or poison control center. Never give anything by mouth to an unconscious person.

Inhalation - In case of accident by inhalation: remove casualty to fresh air and keep at rest.

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## **Section 5 - Firefighting Procedures**

Flash Point (Method Used): N/A

NFPA Rating: Health: 0 Fire: 0 Reactivity: 2

**Extinguisher Media:** Use dry chemical or cover with dry sand or lime.

Flammable Limits in Air % by Volume: N/A

**Autoignition Temperature:** N/A

Special Firefighting Procedures: Firefighters should wear full protective equipment and NIOSH approved self-contained

breathing apparatus.

Unusual Fire and Explosion Hazards: Risk of explosion by shock, friction, fire or other sources of ignition.

Keep away from sources of ignition - No smoking.

Once on fire, materials provide their own oxidizer. Very difficult to extinguish flame. Only burn in a controlled environment.

#### **Section 6 - Spill or Leak Procedures**

**Steps to Take in Case Material Is Released or Spilled:** Ventilate area of spill. Clean-up personnel should wear proper protective equipment. Avoid creating dust. Sweep or scoop up and containerize for disposal.

## **Section 7 - Special Precautions**

Precautions to Take in Handling or Storing: Avoid excess heat.

Keep away from sources of ignition - No smoking.

Keep away from oxidizing materials and strong acids.

Keep away from combustible material.

After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. Keep container tightly closed in a cool, well-ventilated place.

#### **Section 8 - Protection Information**

**Respiratory Protection (Specify Type):** None needed under normal conditions of use with adequate ventilation. A NIOSH/MSHA chemical cartridge respirator should be worn if PEL or TLV is exceeded.

**Ventilation:** 

**Local Exhaust:** Yes **Mechanical(General):** Yes

**Special:** No **Other:** No

**Protective Gloves:** Natural rubber, Neoprene, PVC or equivalent. **Eye Protection:** Splash proof chemical safety goggles should be worn.

Other Protective Clothing or Equipment: Lab coat, apron, eye wash, safety shower.

## Section 9 - Physical Data

Molecular Weight:N/AMelting Point:N/ABoiling Point:N/AVapor Pressure:N/AVapor Density(Air=1):N/ASpecific Gravity (H2O=1):>1Percent Volatile by Volume:N/AEvaporation Rate (BuAc=1):N/A

**Solubility in Water:** Practically Insoluble **Appearance and Odor:** Odorless white-brown solid.

## **Section 10 - Reactivity Data**

Stability: Stable

Conditions to Avoid: Heat and sources of ignition.

Incompatibility (Materials to Avoid): Acids, Water,

Hazardous Decomposition Products: Metal Fumes,

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Hazardous Polymerization: Will not occur

## **Section 11 - Toxicity Data**

Toxicity Data: N/A
Effects of Overexposure:
Acute: See Section 2

**Chronic:** Not listed as a carcinogen by IARC, NTP or OSHA.

Conditions Aggravated by Overexposure: Eye disorders, Respiratory disorders,

**Target Organs:** N/A

Primary Route(s) of Entry: Inhalation, Skin and Eye contact.

### **Section 12 - Ecological Data**

**EPA Waste Numbers:** N/A

### **Section 13 - Disposal Information**

**Waste Disposal Methods:** Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.

## **Section 14 - Transport Information**

**DOT Proper Shipping Name:** N/A

## **Section 15 - Regulatory Information**

**EPA TSCA Status:** On TSCA Inventory

Hazard Category for SARA Section 311/312 Reporting: Acute

Name List: Chemical Category:

No No

CERCLA Section 103 RQ(lb.): No RCRA Section 261.33: No

### **Section 16 - Additional Information**

The information provided in this Material Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the Material Safety Data Sheet. Any employer must carefully assess the applicability of any information contained herein in regards to the particular use to which the employer puts the material.

Glossary

ACGIH American Conference of Governmental Industrial Hygienists

CAS Number Chemical Services Abstract Number

CERCLA Comprehensive Environmental Response, Compensation, and Liability Act

DOT U.S. Department of Transportation

IARC International Agency of Research on Cancer

N/A Not Available

NTP National Toxicology Program

OSHA Occupational Safety and Health Administration

PEL Permissible Exposure Limit

ppm Parts per million

RCRA Resource Conservation and Recovery Act

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SARA Superfund Amendments and Reauthorization Act

TLV Threshold Limit Value
TSCA Toxic Substances Control Act