

Material Safety Data Sheet
May be used to comply with
OSHA's Hazard Communication Standard.
29 CFR 1910.1200. Standard must be
consulted for specific requirements.

U.S. Department of Labor
Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072



IDENTITY (As used on Label and List)

RAIL WELDING THERMIT®

*Note: Blank spaces are not permitted. If any item is not applicable, or
no information is available, the space must be marked to indicate that.*

Section I

Manufacturer's Name: **Orgo-Thermit, Inc.**

Emergency Telephone Number: **800-424-9300**

Address (Number, Street, City, State and ZIP Code)

Telephone Number for Information: **732-657-5781**

3500 Colonial Drive North

Date Prepared: **Revised 1-19-11**

Manchester, NJ 08759

Signature of Preparer (optional)

Section II – Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity: Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits	
			Recommended	% (optional)
A Mixture of Aluminum, Fe₂O₃ as Iron Oxide, Steel and Fe-Alloys (metallothermic reaction mixture)				
1309-37-1				
7429-90-5				
12604-53-4				
12604-58-9				

Section III – Physical/Chemical Characteristics

Boiling Point	N/A	Specific Gravity (H ₂ O = 1)	N/A
Vapor Pressure (mm Hg.)	N/A	Melting Point	N/A
Vapor Density (AIR = 1)	N/A	Evaporation Rate (Butyl Acetate = 1)	N/A

Solubility in Water - **Slightly.**

Appearance and Odor – **Granular mixture – gray in color and odorless**

Section IV – Fire and Explosion Data

Flash Point (Method Used) – N/A	Flammable Limits; 2500°F	LEL	UEL
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Extinguishing Media

Cannot be extinguished

Special Fire Fighting Procedures

Cover with dry Silica Sand – never use water.

Unusual Fire and Explosion Hazards

Avoid ignition sources.

Section V – Reactivity Data

Stability	Unstable		Conditions to Avoid
	Stable	X	Does not spontaneously ignite

Incompatibility (*Materials to Avoid*): **Water and acids.**

Hazardous Decomposition or Byproducts: Hydrogen when exposed to water or acids.

Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	X	

Section VI – Health Hazard Data

Route(s) of Entry: Inhalation? Skin? Ingestion?

Health Hazards (*Acute and Chronic*):

Avoid bodily contact with dust.

Carcinogenicity: N/A NTP? IARC Monographs? OSHA Regulated?

Signs and Symptoms of Exposure: N/A

Medical Conditions
Generally Aggravated by Exposure: N/A

Emergency and First Aid Procedures: N/A

Section VII – Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled: **Normal clean up procedures, avoid generation of dust cloud, avoid inhalation.**

Waste Disposal Method: **According to local rules.**

Precautions to be taken in Handling and Storing: **Store in dry location, keep away from heat and sparks.**

Other Precautions: **After ignition, the Thermit® reaction cannot be halted. Molten slag and steel are produced – stay clear when reaction takes place.**

Section VIII – Control Measures

Respiratory Protection (*Specify Type*): N/A

Ventilation	Local Exhaust: When used in confined place	Special
	Mechanical (<i>General</i>)	Other: Mainly used outside (field welding)

Protective Gloves: **Fire resistant** Eye Protection: **Dark Safety Glasses**

Other Protective Clothing or Equipment: N/A