MATERIAL SAFETY DATA SHEET

ALDON CORPORATION
1533 W.Henrietta Rd.
Avon, New York 14414
(716) 226-6177

MSDS No. TT 85
Effective Date May 21, 1999

SECTION I NAME

Product	THERMIT IGNITER
Chemical Synonyms	Thermit igniter
Formula	Mixture. See Section II.
Unit Size	up to 10 Sticks.
C.A.S. No.	Mixture. See Section II.

24 HOUR EMERGENCY ASSISTANCE

CHEMTREC
800-424-9300
Day 716-226-6177

NFPA HAZARD RATING

LEAST	SLIGHT	MODERATE	HIGH	EXTREME
0	1	2	3	4

HMIS *

Health	0
Fire	1
Reactivity	2

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Contains mixture of Aluminum,		
Barium nitrate, Iron oxide and binder (Dextrin).		None established.

CAUTION! THIS SOLID MIXTURE BECOMES A FIRE HAZARD IF EXPOSED TO TEMPERATURES OF 300°C (572°F) AND ABOVE AND IS TO BE USED FOR STARTING THERMIT REACTIONS.

SECTION III PHYSICAL DATA

Melting Point (°F)	N/A	Specific Gravity (H_2O = 1)	N/A
Boiling Point (°F)	N/A	Percent Volatile by Volume (%)	N/A
Vapor Pressure (mm Hg)	Negligible as solid.	Evaporation Rate (=1)	N/A
Vapor Density (Air=1)	N/A		
Solubility in Water	Insoluble.		
Appearance & Odor	Silver colored metal; no odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	2000°C (3632°F)	Flammable Limits in Air % by Volume N/A	Lower	Upper
Extinguisher Media	Dry silica sand or talc.			

SPECIAL FIREFIGHTING PROCEDURES

Cover with dry silica sand. In fire conditions, wear a NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing.

(1996 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.7, GUIDE PAGE NO. 133)

UNUSUAL FIRE AND EXPLOSION HAZARDS

May be ignited by static discharge and burns at extremely high temperature. Dangerous when exposed to heat or flame. Thermit is very dangerous in that once started it is very difficult to stop as it supplies its own oxygen. It may attain a temperature of about 2500°F (1371°C). Reacts with some acids and caustic solutions to produce hydrogen.

D.O.T. **Flammable solid, inorganic, n.o.s., (Thermit igniter), 4.1, UN 3178, PG II**

Approved by U.S. Department of Labor "essentially similar" to form OSHA-20

SECTION V HEALTH HAZARD DATA TT 85

Threshold Limited Value
None established by (ACGIH 1992-93). TLV as Aluminum metal: 10 mg/m^3; as pyro powders and welding fumes; 5 mg/m^3.

Effects of Overexposure
CAUTION! Hot material may drop off during ignition and reaction progression causing burns. **INHALATION AS DUST:** Will cause respiratory irritation and lung injury. **EYES:** Particles of this material in the eye may cause injury to cornea. Exercise appropriate procedures to minimize potential hazards.

Emergency and First Aid Procedures
INHALATION AS DUST: Remove to fresh air. If illness or discomfort develops, get medical attention. **EYES:** Flush thoroughly with water for at least 15 minutes, lifting lower and upper eyelids occasionally. If irritation develops or persists, get medical attention. **SKIN:** Flush thoroughly with water. Get medical attention.

SECTION VI REACTIVITY DATA

Stability	**Unstable**		**Conditions to Avoid**
	Stable	X	Do not expose to excessive temperature, sparks, open flame and moisture.

Incompatibility (Materials to Avoid) Water and all other combustible materials.

Hazardous Decomposition Products Aluminum fume resulting from the intense heat of ignition.

Hazardous Polymerization		**Conditions to Avoid**
May Occur	**Will Not Occur**	Not applicable.
	X	

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled
Carefully clean up and replace in container or mix with dry sand (1:1 ratio) and dispose.

Waste Disposal Method
Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only.

Mix with dry sand and dispose of in an approved chemical landfill or contract with a licensed waste disposal service.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type) None needed in normal laboratory handling at room temperature.

Ventilation	**Local Exhaust**	Recommended.	**Special**	No.
	Mechanical (General)	None needed.	**Other**	No.

Protective Gloves Recommended. **Eye Protection** Dark safety glasses.

Other Protective Equipment Lab coat, eye wash station, dry silica sand, protective gloves when igniting.

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing
Keep container tightly closed when not in use.
Store in a cool, dry place away from excessive temperature, sparks and open flame. Keep dry and isolate from acids, combustible materials, caustics and chlorinated hydrocarbons.

Other Precautions Read label on container before using. Do not wear contact lenses when working with chemicals.

Wear fire resistant coveralls when applying/igniting.

For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Revision	No. 4	Date	5/21/99	Approved	Michael Raszeja	Chemical Safety Coordinator	MR