

**Material Safety Data Sheet**  
 May be used to comply with  
 SHA'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) **LAB-METAL**

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  
 Alvin Products, Inc.  
 Address (Number, Street, City, State, and ZIP Code)  
 20-22 Houghton Street  
 Worcester, MA 01613-0942  
 Emergency Telephone Number  
 (508) 754-8604  
 Telephone Number for Information  
 Date Prepared  
 December 12, 1988  
 Signature of Preparer (optional)

**Section II - Hazardous Ingredients/Identity Information**

Hazardous Components (Specific Chemical Identity; Common Name(s))  
 \* Methyl Ethyl Ketone CAS 78-93-3  
 \* Toluene CAS 108-88-3  
 OSHA PEL ACGIH TLV  
 200ppm 100ppm  
 Other Limits Recommended % (carbon)  
 Less than 10%  
 Less than 10%

(SEE ATTACHED SHEET FOR SARA TITLE III NOTIFICATION AND ADDITIONAL HEALTH DATA.)

**Section III - Physical/Chemical Characteristics**

Billing Point	MEK 176°F	Specific Gravity (H <sub>2</sub> O = 1)	MEK 0.805
	231°F		0.900
Vapor Pressure (mm Hg)	MEK 200	Melting Point	660°C
	MEK 36.7@30°C	Evaporation Rate	
	MEK 36.7@30°C	(Butyl Acetate = 1)	572
Vapor Density (AIR = 1)			240
Solubility in Water	MEK: More than 10%		
Appearance and Odor	Clear Liquids: MEK-Pungent odor		
	Toluene-Aromatic odor		

**Section IV - Fire and Explosion Hazard Data**

Flash Point (Method Used)	MEK = 200	Lower Flammable Limits	MEK 1.8	Upper
	Toluene = 400		Toluene 1.2	UEL 11.5
Extinguishing Media	CO <sub>2</sub> , dry chemical, foam			7.1
Special Fire Fighting Procedures	None			

Unusual Fire and Explosion Hazards  
 None

(Reproduce locally)

OSHA 174, Sept. 1985

**Section V - Reactivity Data**

Stability	Unstable	Conditions to Avoid	Open Flame
	Stable		
Incompatibility (Materials to Avoid)	X		
Hazardous Decomposition or Byproducts			Open flame, water, heat, sparks, strong oxidizing agents.
Hazardous Polymerization		May Occur	Aluminum reacts with water, acids, or alkali to form combustible hydrogen gas.
Will Not Occur	X		

**Section VI - Health Hazard Data**

Routes of Entry: Inhalation?  High concentrations. Skin?  Repeated skin contact can cause irritation. Ingestion?  Liquid is moderately toxic & may be harmful if swallowed. May produce depression.

Cardiotoxicity: NTP? NO IARC Monographs? NO OSHA Regulated? NO

Signs and Symptoms of Exposure: Slight nose and eye irritation, possible narcosis under high exposure.

Medical Conditions Generally Aggravated by Exposure: Slight nose and eye irritation, possible narcosis under high exposure.

Emergency and First Aid Procedures: Remove from exposure.

**Section VII - Precautions for Safe Handling and Use**

Steps to Be Taken in Case Material is Released or Spilled: Wipe or scrape up spilled material. Use local exhaust when using large amounts in confined areas. Avoid sparks and open flames. Waste Disposal Method: When solvent has evaporated-dry hard material disposable by ordinary means.

Precautions to Be Taken in Handling and Storing: Store in clean dry area at normal temperatures. Below freezing temperatures increase viscosity of Lab-Metal making it difficult to apply.

**Section VIII - Control Measures**

Respiratory Protection (Specify Type): Use in well ventilated area-avoid prolonged breathing of vapors. Local Exhaust When using large amounts in Confined area: Mechanical (General) None Other None. Protective Gloves: Not required if properly applying. Eye Protection: Not required. Other Protective Clothing or Equipment: Use normal good hygienic practices.

195

ATTACHMENT FOR LAB-METAL

The acceptable ceiling concentration for toluene is 300 ppm. Acceptable maximum peak above the acceptable ceiling concentration for an 8 hour shift is 500 ppm for 10 minutes for toluene.

\*All chemical compounds marked with an asterisk (\*) are toxic chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 312. You must notify each person to whom this mixture or trade name product is sold. This statement must remain a part of this Material Safety Data Sheet. This statement must not be detached. Any copy or redistribution of this Material Safety Data Sheet shall include this statement.