

MATERIAL SAFETY DATA SHEET

Lloyds Laboratories Inc.

Aluminum Magic - Part # 77816, 77820, 77845

SECTION I: PRODUCT AND COMPANY IDENTIFICATION

<u>PRODUCT NAME:</u>	Aluminum Magic	<u>PRODUCT USE:</u>	Aluminum Cleaner.
<u>MANUFACTURER:</u>	Lloyds Laboratories Inc.	<u>SUPPLIER:</u>	Lloyds Laboratories Inc.
<u>ADDRESS:</u>	613 Neal Drive, Peterborough, Ontario K9J 6X7	<u>ADDRESS:</u>	613 Neal Drive, Peterborough, Ontario K9J 6X7
<u>EMERGENCY #:</u>	1 800 361-6766	<u>EMERGENCY #:</u>	1 800 361-6766

SECTION II: INFORMATION ON INGREDIENTS

Ingredients	CAS#	Wt%	OSHA-PEL	ACGIH-TLV	LD ₅₀
Organic Salt	Confidential	60 – 100 %	Not established	Not established	Not established

SECTION III: HAZARDOUS IDENTIFICATION

Emergency Overview: This product is a colourless to slight amber liquid with a low odour. It is a severe eye irritant to the eyes and a mild skin irritant. If ingested, this product may be harmful or fatal.

Route of Entry:

Eye Contact:

Product expected to be a severe eye irritant.

Skin Contact:

Prolonged or repeated contact can cause irritation.

Non Corrosive to Skin: (as defined and tested in accordance with the U.S. OSHA's Hazard Communication Standard, DOT Hazardous Material Regulations, Canada's WHMIS regulations and TDG Regulations. Classified as a mild irritant as per the 1992 OECD Guideline for Testing of Chemicals. Number 404 "Acute Dermal Irritation/Corrosion").

Inhalation:

Not a likely route of exposure due to physical properties. Product has a very low vapor pressure at room temperature and is not expected to present an inhalation hazard under ambient conditions.

Ingestion:

This product may be harmful if ingested.

Chronic Effects:

Carcinogenicity:

Non-hazardous by WHMIS/OSHA criteria. Not listed by IARC, NTP or ACGIH.

Skin:

Prolonged or repeated exposure can cause drying, defatting and dermatitis.

SECTION IV: FIRST AID MEASURES

Eye Contact:

Immediately flush with water for 15 minutes. Seek medical attention

Skin Contact:

Immediately flush with mild soap and water for 15 minutes. Seek medical attention if irritation develops. Remove contaminated clothing and launder before reuse.

Inhalation:

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen and seek medical attention.

Ingestion:

Do Not induce vomiting. If conscious give 3 – 4 glasses of water to dilute and get immediate medical care.

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SECTION V: FIRE FIGHTING MEASURES

Flammability:	Not Flammable.
Flash Point deg (F, C, PMCC):	Does not ignite.
Means of Extinction:	Water spray, carbon dioxide and dry chemical.
Special Fire Fighting Procedures:	Evacuate personnel to a safe area. Keep containers cool with water spray. Avoid breathing decomposition products. Wear self-contained breathing apparatus and full body protection.
Auto Ignition Temperature:	Not applicable.
Flame Propagation or Burning Rate of Solid:	Not applicable.
Sensitivity to Static Discharge:	Not sensitive.
Unusual Fire and Explosion Hazards:	None known.
Hazardous Decomposition Products:	Thermal decomposition may yield but not limited oxides of carbon and nitrogen. Hydrogen gas may be released upon contact with certain metals.

SECTION VI: ACCIDENTAL RELEASE MEASURES

Leak and Spill Procedures:	Collect for disposal. Clean up remaining materials from spill with suitable absorbent. Small spills may be absorbed with non-reactive absorbent (sand) and placed in suitable, covered, labeled containers. For large spills provide diking or other appropriate containment to keep material from spreading. Prevent large spills from entering sewers or waterways. If diked material can be pumped, store recovered material in compatible drums for recovery or disposal. Observe all personal protection equipment recommendations.
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SECTION VII: HANDLING AND STORAGE

Storage Requirements:	Keep Out of Reach of Children. Keep container tightly closed. Store in fiberglass, polyethylene, or polypropylene containers. Do not store in metal containers, especially aluminum. Storage in certain metal containers at temperatures above 60°C/140°F may result in hydrogen gas evolution. Do not store at temperatures above 48°C/120°F.
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SECTION VIII: EXPOSURE CONTROL / PERSONAL PROTECTION

Skin Protection:	Use impervious (rubber, nitrile) gloves.
Eye Protection:	Use chemical goggles or full face shield.
Respiratory Protection:	None normally required if good ventilation is maintained. Avoid breathing vapor and/or mist.
Other Protective Equipment:	Eye bath, safety shower, full protective clothing.
Engineering Controls:	Not normally required.

Work Hygienic Practices: The usual precaution for the handling of chemicals must be observed.

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SECTION IX: PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point (deg C):	100°C/ 212°F	Specific Gravity (H ₂ O = 1):	1.36 +/- 0.2	Evaporation Rate (water = 1):	
% Volatile (Wt%):	40 % approximately	Solubility in water:	Soluble (100% in water)	pH (as supplied):	<1 (Typical)
Physical State:	Liquid	Viscosity:	Water like	Freezing point:	<-30°C
Appearance / Odour:	Clear colourless to pale amber liquid. Very mild odour.				

SECTION X: STABILITY AND REACTIVITY

Stability:	Stable.
Conditions to Avoid:	Heating above 110°C results in an exothermic decomposition with release of CO ₂ gas.
Incompatible Materials:	Avoid contact with oxidizers. This material may be extremely hazardous in contact with chlorates or nitrates. This material is acidic. Contact with hypo chlorites (e.g. chlorine bleach, sulfides, or cyanides will liberate toxic gases. Contact with alkaline materials (e.g. aqua ammonia) will generate heat.
Hazardous Decomposition Products:	Thermal decomposition may yield, but not limited to oxides of carbon and nitrogen. Hydrogen gas may be released upon contact with certain metals.
Hazardous Polymerization:	Will not occur.

SECTION XI: TOXICOLOGICAL INFORMATION

Carcinogenicity:	Non-hazardous by WHMIS/OSHA criteria. Not listed by IARC, NTP, or ACGIH.
Acute skin irritation/corrosion test:	This product was found to be not Corrosive to the skin after 4 hours of direct skin contact.

SECTION XII: ECOLOGICAL INFORMATION

Biodegradability: Urea and organic acid are known to be biodegradable.

SECTION XIII: DISPOSAL CONSIDERATIONS

Dispose of in accordance to all local, provincial/state and federal regulations

SECTION XIV: TRANSPORTATION

T.D.G. Classification: Not regulated.

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SECTION XV: REGULATORY INFORMATION

Occupational Health and Safety Regulations:

WHMIS Classification:

OSHA & WHMIS:

Class D – Division 2B.

MSDS prepared pursuant to the Hazard Communication Standard (CFR29.1910.1200) and Canadian WHMIS regulations (Controlled Products Regulations under the Hazardous Products Act.

Environmental Regulatory Lists:

SARA – Section 313 (Toxic Chemical Release Reporting) 40 CFR 372:

Toxic Substances Control Act (TSCA):

None of the ingredients are listed.

All ingredients are listed on the Chemical Substance Inventory.

Canadian Non-Domestic Substance List (NDSL):

California Prop. 65:

All ingredients are listed.

 The following components of this product are substances, or belong to classes of substances, known to the state of California to cause cancer and/or reproductive toxicity: **Chemical Name: none.**

SECTION XVI: OTHER INFORMATION

HMIS Rating

Health:	2
Flammability:	0
Reactivity:	0
PPE:	B

Date:	June 7, 2013	Prepared By:	Technical Services Group	Telephone:	1 800 361-6766
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Disclaimer:

Information for this material safety data sheet was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond the control of supplier, it is assumed that users of this material have been fully trained according to the mandatory requirements of WHMIS.

No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries for consequential damages, which may result from the use or reliance on any information contained in this form. If user requires independent information on ingredients in this or other material, we recommend contact with the Canadian Centre of Occupational Health and Safety (CCOHS) in Hamilton, Ontario (905-572-4400) or CSST in Montreal, Quebec (514-873-3990).