



MATERIAL SAFETY DATA SHEET

Information Telephone Number: (973) 772-5252

ALL CHEMICAL EMERGENCIES:

1-800-424-9300 – USA

1-703-527-3887 – INTERNATIONAL

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SECTION I – PRODUCT IDENTIFICATION

Product Code: Alexander, Aicon, Nury, Starlight
Product Name: **Magic10[®]** Acrylic Resin (AW-105)
Description: Acrylic Polymer Solution for Solid Surface Materials
Product Class: Acrylic Polymer
C.A.S. Number: Mixture
HMIS Rating: Health = 2 Fire = 3 Reactivity = 2
NFPA Rating: Health = 2 Fire = 3 Reactivity = 2

SECTION II - INGREDIENTS

<u>Ingredients</u>	<u>CAS Number</u>	<u>% by weight</u>
Methyl Methacrylate	80-62-6	40-70
Acrylic polymer	Proprietary	15-40
Methacrylic acid ester	Proprietary	1-10

SECTION III – HEALTH HAZARD DATA

Flammable liquid. Irritating to respiratory system and skin. May cause sensitization by skin contact. High atmospheric concentration may lead to anaesthetic effects. May be ignited by heat sparks or flame. Avoid uncontrolled polymerization. Container may explode when heated. Repeated and/or prolonged contact may cause dermatitis

Primary Routes of Exposure

Inhalation, Skin contact, Eye contact and Ingestion

Potential Health Effects

Inhalation: May cause irritation to the respiratory tract. **Eye Contact :** May cause eye irritation.

Skin contact: May cause irritation and sensitization of the skin. Not expected to be absorbed through the skin in toxic amounts.

Ingestion: Expected to be slightly toxic by ingestion.

SECTION IV – FIRST AID MEASURES

Inhalation: Remove to fresh air obtain medical attention if irritation develops or persists. Administer oxygen if breathing is difficult. Apply artificial respiration if victim is not breathing.

Eye Contact: In case of contact immediately flush eyes with plenty of water for at least 20 minutes. Hold eyelids apart during flush to ensure rinsing of the entire surface of the eye with water. Obtain medical attention if irritation develops or persists.

Skin Contact: Wash off with water and soap. Obtain medical attention if irritation develops or persists.

Ingestion: If swallowed call a Poison Control Center or doctor immediately.

SECTION V – FIRE-FIGHTING MEASURES

OSHA Flammability Classification: Flammable liquid

Flammable Properties: Vapors are heavier than air can form an explosive mixture with air. Vapor can travel to a source of ignition and flash back.

Extinguishing Media: Use the following extinguishing media when fighting fires involving this material:
Dry chemical-carbon dioxide-alcohol-resistant foam

Fire Fighting Procedures: Evacuate enclosed and surrounding areas. As in any fire, wear self-contained breathing apparatus pressure-demand. Use water sprays to cool containers exposed to fire and disperse vapors. Keep spills away from sources of ignition.

SECTION VI – ACCIDENTAL RELEASE MEASURES

Eliminate sources of ignition. Ensure suitable personal protection (including respiratory protection) during removal of spillages. Prevent entry into drains. Absorb spillages onto sand, earth or any suitable adsorbent material. Do not adsorb onto sawdust or other combustible materials. Transfer to a container for disposal or recovery. Spillage or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.

SECTION VII – HANDLING, STORAGE & DISPOSAL PROCEDURES

Handling: Product is supplied in a stabilized form. Open container carefully as it may be pressurized. Use portable ventilation if necessary at job site. Ground and bond containers when transferring material. Keep container tightly closed. Use explosion-proof equipment. Do not eat, drink, smoke or chew tobacco around material.

Storage: For maximum quality, keep in the original container at a temperature not exceeding 40° C (104°F). Do not store in direct sunlight. Keep away from heat. Keep away from sparks, Flames and other sources of ignition. Keep container closed when not in use. Fill the container by approximately 80% only as oxygen (air) is required for stabilization.

Disposal: Disposal should be in accordance with local, state or national legislation

SECTION VIII – EXPOSURE CONTROLS & PERSONAL PROTECTION

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded. Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required. The following information is given as general guidance.

SECTION VIII – EXPOSURE CONTROLS & PERSONAL PROTECTION cont'd

Respiratory Protection: Wear suitable respiratory protective equipment if exposure to levels above the occupational exposure limit is likely. A dust mask is not acceptable. A suitable mask with filter type A may be appropriate. In the event of formation of particularly high levels of vapour a self contained breathing apparatus may be appropriate. Spraying: A suitable respirator must always be worn. A self contained breathing apparatus may be appropriate.

Eye Protection: Use safety glasses with side shields.

Skin Protection: On handling of larger quantities: face mask, chemical-resistant boots and apron

Hand Protection: Wear suitable gloves. Gloves should be replaced regularly, especially after extended contact with the product. For each work-place a suitable glove type has to be selected.

Other Protective Equipment: A safety shower and eye wash fountain should be readily available. To identify additional Personal Protective Equipment requirements, it is recommended that a hazard assessment in accordance with the OSHA PPE Standard be conducted before using this product.

Occupational Exposure Limits

HAZARDOUS INGREDIENT	LTEL 8 hr ppm	TWA Mg/m ³	STEL ppm	STEL Mg/m ³	Notes
Methyl Methacrylate	50	208	100	416	OES

SECTION IX – PHYSICAL & CHEMICAL PROPERTIES

Appearance:	Colorless or slight milk
Physical state:	Liquid
Odor:	Ester-like, pungent
Flash point:	10° C (50°F) (methyl methacrylate)
Flammable Limits (%v/v):	2.1-12.5
PH-value:	Not applicable
Viscosity (cps):	180-300 at 25° C /77°F
Specific gravity:	1.07 g/cm ³ at 20° C /68°F
Vapor density (air=1):	>1
Vapor pressure:	Not applicable
Freezing Temperature:	Not available
Boiling Temperature:	Approx., 100° C / 212°F
Solubility in water:	16 g/l at 20° C /68°F
Coefficient of Water/Oil:	Insoluble
Evaporation rate:	3.1(butyl acetate=1)

SECTION X – STABILITY & REACTIVITY

Stability - This product is stable under normal storage conditions.

Conditions To Avoid - Heat and ignition sources, aging, contamination, oxygen free atmosphere.

Incompatibility With Other Materials - Peroxides, amines, sulfur compounds, heavy metal ions, alkali, reducing agents and oxidizing agents.

Hazardous Decomposition Products - None when used as directed.

Hazardous Polymerization - May occur when exposed to excessive heating or contaminated with incompatible materials.

SECTION XI – TOXICOLOGICAL INFORMATION

Inhalation: Irritating to respiratory system. High atmospheric concentrations may lead to irritation of the respiratory tract, dizziness, headache and anaesthetic effects.

Skin Contact: Irritating to skin. May cause sensitization by skin contact. Repeated and/or prolonged contact may cause dermatitis

Eye Contact: Irritating to eyes. High vapour concentration will cause irritation.

Ingestion: May cause irritation of the gastrointestinal tract.

Long Term Exposure: Methyl methacrylate: Repeated exposure to high levels of methyl methacrylate may produce adverse effects on the heart, lungs, liver and kidneys. Repeated exposure of animals by inhalation to levels at or above the occupational exposure level produces adverse effects on the nasal epithelium (levels of 100 and 400ppm). There is no reason to believe that methyl methacrylate represents a carcinogenic or mutagenic hazard to man based upon evidence from well conducted animal studies, relevant mutagenicity studies and adequate epidemiology studies in relevant cohort. Recent studies on animals have shown that high exposures do not produce embryo or foetotoxic nor taratogenic effects in the presence of maternal toxicity. None of these effects are likely to occur under conditions of use, provided exposure is maintained at or below the relevant occupational exposure limits.

SECTION XII – ECOLOGICAL INFORMATION

Environmental Fate and Distribution: Low tonnage material produced in wholly contained systems. Liquid with moderate volatility. The product is sparingly soluble in water. The product has low potential for bioaccumulation. The product is predicted to have high mobility in soil.

Persistence and Degradation:

The product is partially biodegradable in water

METHYL METHACRYLATE: Not readily biodegradable.

Chemical Oxygen Demand (COD) 88% (28 days)

Inherent Biodegradation:

Dissolved Organic Carbon Removal (DOC removal) > 95% (28 days)

Toxicity

METHYL METHACRYLATE: Low toxicity to fish. Low toxicity to algae.

LC50 (fish) Typically: > 100 mg/L

LC50 (fathead minnow) (96 hours) (static) 130 mg/L

Harmful to aquatic invertebrates.

EC50 (Daphnia magna) (48 hours) 69 mg/L

SECTION XIII: TRANSPORTATION INFORMATION**US DOT Hazard Classification**

Proper Shipping Name:	Resin solution
Technical Name:	Acrylic Resin containing methyl methacrylate
Hazard Class:	3
ID/UN Number:	UN 1866
Packing Group:	II
ERG:	127

SECTION XIII: TRANSPORTATION INFORMATION cont'd**Canadian TDG Classification:** Refer to the classification US DOT**Shipment by sea IMDG/GGV Sea and/or Air Transport ICAO/IATA**

Hazard Class: 3 (EmS 3-05)
 ID/UN Number: UN 1866
 Marine pollutant Packed (+/0): 0 (sea only)
 Packaging group: II
 Proper Shipping Name: Resin solution (containing methyl methacrylate)
 Hazardous constituent: Methyl methacrylate

SECTION XIV – REGULATORY INFORMATION**INVENTORY INFORMATION**

EC EINECS: Listed USA TSCA: Listed
 Canada DSL: Listed Australia AICS: Listed
 New Zealand: Not available China: Listed

US FEDERAL REGULATORY INFORMATION

Component/CASRN	TPQ (lbs)	CERCLA RQ (lbs)	SARA 302 List of EHS	SARA 313 (40CFR372)	TSCA 12b
Methyl methacrylate 80-62-6	NONE	1000	NO	YES	NO

COMPONENT CLASSIFICATION UNDER CLEAN AIR ACT SECTION 112

Component/CASRN	Weight(%)	HAP	EHAP
Methyl methacrylate 80-62-6	60-100	YES	NO

PRODUCT CLASSIFICATION UNDER SECTION 311/312 OF SARA (40CFR370)**US STATE REGULATORY INFORMATION**

Component/CASRN	New Jersey RTK	Pennsylvania RTK	Massachusetts RTK	California Proposition cancer	California Proposition reproductive
Methyl methacrylate/ 80-62-6	YES	YES	YES	NO	NO
Acrylic polymer/ Proprietary	NO	NO	NO	NO	NO
Methacrylic acid ester/ proprietary	NO	NO	NO	NO	NO

CANADIAN REGULATION

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulation and the MSDS contains all information required by the Controlled Products Regulation.

Component/CASRN	WHMIS	NPRI
Methyl methacrylate/ 80-62-6	D2B	YES
Methacrylic acid ester/ proprietary	D2B	NO

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