

**MATERIAL SAFETY DATA SHEET**  
**FOR COATINGS, RESINS AND RELATED MATERIALS**

(Approved by U.S. Department of Labor 'Essentially Similar' to form OSHA-20)

**MANUFACTURER'S NAME****EMERGENCY TELEPHONE NO.**

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**DATE OF PREPARATION****INFORMATION TELEPHONE NO.**

20-Dec-86

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**Section I -- PRODUCT IDENTIFICATION****PRODUCT NUMBER**

\* - Trade Mark

M60 S 1

**PRODUCT NAME**

OPEX\* Aluminum Lacquer

**PRODUCT CLASS**

Aluminum Lacquer

**Section II -- HAZARDOUS INGREDIENTS**

CAS No.	INGREDIENT	% by WEIGHT	ACGIH-TLV	OSHA-PEL	UNITS	V.P.
64742-89-8	Lt. Aliphatic Hydrocarbon Solvent.	45	100	500	PPM	53.0
64742-47-8	Mineral Spirits.	<5	100	500	PPM	2.0
108-88-3	Toluene.	15	100	200	PPM	22.0
64742-95-6	Light Aromatic Naphtha	<5	100		PPM	3.8
64-17-5	Ethanol	15	1000	1000	PPM	44.0
111-76-2	2-Butoxyethanol	<5	25	50	PPM	0.6

No ingredient in this product is an IARC, NTP or OSHA listed carcinogen

**Section III -- PHYSICAL DATA**

<b>EVAPORATION RATE</b> -- Slower than Ether	<b>VAPOR DENSITY</b> -- Heavier than Air
<b>BOILING RANGE (°F)</b>	<b>% VOLATILE VOLUME</b>
172 - 395	88.9
	<b>WT./GAL</b>
	6.91

**Section IV -- FIRE AND EXPLOSION HAZARD DATA**

**FLAMMABILITY CLASSIFICATION** FLASH POINT 25 F PMCC LEL 0.7

**RED LABEL** -- Flammable, Flash below 100 F

**EXTINGUISHING MEDIA**

Carbon Dioxide, Dry Chemical, Foam

**UNUSUAL FIRE AND EXPLOSION HAZARDS**

Keep containers tightly closed. Isolate from heat, electrical equipment, sparks, and open flame. Closed containers may explode when exposed to extreme heat. Application to hot surfaces requires special precautions. During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

**SPECIAL FIRE FIGHTING PROCEDURES**

Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

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**Section V -- HEALTH HAZARD DATA****THRESHOLD LIMIT VALUE** -- See Section II**EFFECTS OF OVEREXPOSURE**

**ACUTE:** Overexposure causes eye, skin and respiratory irritation. May cause nervous system depression accompanied by headache, dizziness, nausea, confusion and staggering gait. Extreme overexposure may result in unconsciousness and possibly death.

**CHRONIC:** Prolonged overexposure to ingredients in Section II may cause adverse effects to the liver, urinary, blood forming, and cardio-vascular systems.

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

**EMERGENCY AND FIRST AID PROCEDURES**

If **INHALED:** If affected, remove from exposure. Restore breathing. Keep warm and quiet.

If on **SKIN:** Wash affected area thoroughly with soap and water.

Remove contaminated clothing and launder before re-use.

If in **EYES:** Flush eyes with large amounts of water for 15 minutes. Get medical attention.

If **SWALLOWED:** Never give anything by mouth to an unconscious person. DO NOT INDUCE

VOMITING. Give several glasses of water. Seek medical attention.

**Section VI -- REACTIVITY DATA****STABILITY** -- Stable**INCOMPATIBILITY**

Contamination with Water, Acids, or Alkalis can cause evolution of hydrogen, which may result in dangerously increased pressures in closed containers.

**HAZARDOUS DECOMPOSITION PRODUCTS**

By fire: Carbon Dioxide, Carbon Monoxide

**HAZARDOUS POLYMERIZATION** -- Will Not Occur**Section VII -- SPILL OR LEAK PROCEDURES****STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

Remove all sources of ignition. Ventilate and remove with inert absorbent.

**WASTE DISPOSAL METHOD**

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State, and Local regulations regarding pollution.

**Section VIII -- PROTECTION INFORMATION****PRECAUTIONS TO BE TAKEN IN USE**

Use only with adequate ventilation. Avoid breathing vapor and spray mist. Avoid contact with skin and eyes. Wash hands after using.

Protect against dust which may be generated by sanding or abrading the dried film.

**VENTILATION**

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section II is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

**RESPIRATORY PROTECTION**

If personal exposure cannot be controlled below applicable limits by ventilation, wear respiratory device approved by NIOSH/MSHA for protection against materials in Section II.

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**PROTECTIVE GLOVES**

Wear gloves which are recommended by glove supplier for protection against materials in Section II.

**EYE PROTECTION**

Wear safety spectacles with unperforated sideshields.

**Section IX -- PRECAUTIONS****DOL STORAGE CATEGORY** -- 1B**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING**

Contents are **FLAMMABLE**. Keep away from heat, sparks, and open flame.

During use and until all vapors are gone: Keep area ventilated - Do not smoke -

Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally. Keep out of the reach of children.

**OTHER PRECAUTIONS**

This coating contains materials classified as nuisance particulates, for example titanium dioxide, calcium carbonate, etc. (see ACGIH TLV List, Preface and Appendix D), which may be present at hazardous levels only during sanding or abrading of the dried film.

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

**HMIS**

<b>HEALTH</b>	<b>2</b>
<b>FLAMMABILITY</b>	<b>3</b>
<b>REACTIVITY</b>	<b>1</b>

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.