# SAFETY DATA SHEET

## SECTION 1 - Chemical Product and Company Information

Product Name: AEROSOL LACQUER SEMI-GLOSS  Product Code: AL60

Manufactured by:
**Gemini Coatings**
**2300 Holloway Drive**
**El Reno, OK  73036**
**800-262-5710**

**24- Hour Emergency (Spill, Leak, Exposure or Accident):**
**INFOTRAC 800-535-5053**
**Outside USA, Call Collect 1-352-323-3500**

**24- Hour Emergency HAZMAT Response and MSDS Help:**
**EMI 800-510-8510**

Product Use: A protective and/or decorative finish or accompanying product (reference label or product data sheet for more information).
Not recommended for: Any other use not detailed on product data sheet or label .

## SECTION 2 - Hazards Identification

### GHS Ratings:

| | | |
|---|---|---|
| Flammable aerosol | 1 | Flammable aerosol class 1 |
| Gas under pressure | Compressed gas | Entirely gaseous at -50°C |
| Skin corrosive | 2 | Reversible adverse effects in dermal tissue, Draize score: >= 2.3 < 4.0 or persistent inflammation |
| Eye corrosive | 2A | Eye irritant: Subcategory 2A, Reversible in 21 days |
| Mutagen | 1B | Known to produce heritable mutations in human germ cellsSubcategory 1B, Positive results: In vivo heritable germ cell tests in mammals, Human germ cell tests, In vivo somatic mutagenicity tests, combined with some evidence of germ cell mutagenicity |
| Carcinogen | 1A | Known Human Carcinogen Based on human evidence |
| Reproductive toxin | 1A | Based on human evidence |
| Aspiration hazard | 1 | Aspiration Toxicity Category 1: Known (regarded)- human evidence - hydrocarbons with kinematic viscosity ? 20.5 mm2/s at 40° C. |

### GHS Hazards

| | |
|---|---|
| H222 | Extremely flammable material |
| H280 | Contains gas under pressure; may explode if heated |
| H304 | May be fatal if swallowed and enters airways |
| H315 | Causes skin irritation |
| H319 | Causes serious eye irritation |
| H340 | May cause genetic defects |
| H350 | May cause cancer |
| H360 | May damage fertility or the unborn child |

### GHS Precautions

| | |
|---|---|
| P201 | Obtain special instructions before use |
| P202 | Do not handle until all safety precautions have been read and understood |
| P210 | Keep away from heat/sparks/open flames/hot surfaces – No smoking |
| P211 | Do not spray on an open flame or other igntion source |
| P251 | Pressurized container – Do not pierce or burn, even after use |
| P264 | Wash any exposed skin thoroughly after handling |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection |
| P281 | Use personal protective equipment as required |
| P321 | Specific treatment (see First Aid section on this label) |
| P331 | Do NOT induce vomiting |

| | |
|---|---|
| P362 | Take off contaminated clothing and wash before reuse |
| P301+P310 | IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician |
| P302+P352 | IF ON SKIN: Wash with soap and water |
| P305+P351+P338 | IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing |
| P308+P313 | IF exposed or concerned: Get medical advice/attention |
| P332+P313 | If skin irritation occurs: Get medical advice/attention |
| P337+P313 | Get medical advice/attention |
| P405 | Store locked up |
| P410+P403 | Protect from sunlight. Store in a well ventilated place |
| P410+P412 | Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F |
| P501 | Do not flush to sewer, watershed or waterway. Dispose of product in accordance with applicable local, county, state and federal regulations. |

**Signal Word:** **Danger**

**SECTION 3 - Composition/Information on Ingredients**

| Chemical Name / CAS No. | OSHA Exposure Limits | ACGIH Exposure Limits | Other Exposure Limits |
|---|---|---|---|
| TOLUENE<br>108-88-3<br>10% - 20% | 200 ppm TWA | 20 ppm TWA | NIOSH: 100 ppm TWA; 375 mg/m3 TWA<br>150 ppm STEL; 560 mg/m3 STEL |
| ETHYL ACETATE<br>141-78-6<br>10% - 20% | 400 ppm TWA; 1400 mg/m3 TWA | 400 ppm TWA | NIOSH: 400 ppm TWA; 1400 mg/m3 TWA |
| Propane<br>74-98-6<br>10% - 20% | 1000 ppm TWA; 1800 mg/m3 TWA | See Appendix F: Minimal Oxygen Content, explosion hazard | NIOSH: 1000 ppm TWA; 1800 mg/m3 TWA |
| ISOBUTYL ACETATE<br>110-19-0<br>10% - 20% | 150 ppm TWA; 700 mg/m3 TWA | 150 ppm STEL (listed under Butyl acetates, all isomers)<br>50 ppm TWA (listed under Butyl acetates, all isomers) | NIOSH: 150 ppm TWA; 700 mg/m3 TWA |
| Butane<br>106-97-8<br>5% - 10% | | 1000 ppm STEL (explosion hazard, listed under Butane, isomers) | NIOSH: 800 ppm TWA; 1900 mg/m3 TWA |
| Nitrocellulose<br>9004-70-0<br>1% - 5% | | | |

| | | | |
|---|---|---|---|
| DOA PLASTICIZER<br>103-23-1<br>1% - 5% | | | |
| Ethyl alcohol<br>64-17-5<br>1% - 5% | 1000 ppm TWA; 1900 mg/m3 TWA | 1000 ppm STEL | NIOSH: 1000 ppm TWA; 1900 mg/m3 TWA |
| Isopropyl alcohol<br>67-63-0<br>1% - 5% | 400 ppm TWA; 980 mg/m3 TWA | 400 ppm STEL<br>200 ppm TWA | NIOSH: 400 ppm TWA; 980 mg/m3 TWA<br>500 ppm STEL; 1225 mg/m3 STEL |
| 2-BUTOXYETHANOL<br>111-76-2<br>1% - 5% | 50 ppm TWA; 240 mg/m3 TWA | 20 ppm TWA | NIOSH: 5 ppm TWA; 24 mg/m3 TWA |

## SECTION 4 - First Aid Measures

**Inhalation:**
Remove exposed individual to fresh air and assist breathing if necessary. Seek medical attention.
**Eye Contact:**
Flush eyes with lukewarm water for 15 minutes. Seek medical attention immediately.
**Skin:**
Remove contaminated clothing, wash area immediately with soap and water. See physician if irritation persists.
**Ingestion:**
Rinse mouth out immediately. Drink 1 or 2 glasses of water to dilute. DO NOT induce vomiting. Contact physician or poison control center immediately.

## SECTION 5 - Fire Fighting Measures

Alcohol Foam, CO2, Dry Chemical
Do not puncture or incinerate container. Exposure to heat or prolonged exposure to sun may cause container to burst. Do not expose to heat or store at temperatures above 120 degrees F. Vapors are heavier than air and may travel along the ground or may be moved by ventilation and ignited by pilot lights, sparks, heaters, smoking, electrical motors or static discharge distant from handling pot.
Burning may produce oxides of nitrogen and carbon.
Clear fire area of unprotected personnel. Do not enter confined space without helmet, face shield, bunker coat, gloves, rubber boots and a positive pressure NIOSH-approved self-contained breathing apparatus. A water stream can scatter flames. A spray of water may be used to cool closed containers to prevent pressure buildup and possible auto ignition or explosion when exposed to extreme heat. If water is used, fog nozzles are preferable.

## SECTION 6 - Accidental Release Measures

Stay upwind and away from spill or leak unless wearing appropriate protective equipment. Stop and/or contain discharge if it may be done safely. Keep all sources of ignition away. Ventilate area of spill. Use non-sparking tools for clean up. Cover with inert material to reduce fumes. Keep out of drains, sewer or waterways.

If large spill occurs, alert spill response teams. Contact fire authorities. Notify local health and pollution control agencies.

## SECTION 7- Handling and Storage

**Handling:**
Personnel should avoid inhalation of vapors. Personal contact with the product should be avoided. Should contact be made, remove saturated clothing and flush affected skin areas with water. Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazardous precautions given in thes sheet must be observed.

**Storage:**
Keep product containers cool, dry and away from sources of ignition. Use and store this product with adequate

ventilation. DO NOT SMOKE in or near storage areas.

**SECTION 8 - Exposure Controls/Personal Protection**

| Chemical Name / CAS No. | OSHA Exposure Limits | ACGIH Exposure Limits | Other Exposure Limits |
|---|---|---|---|
| TOLUENE<br>108-88-3 | 200 ppm TWA | 20 ppm TWA | NIOSH: 100 ppm TWA; 375 mg/m3 TWA<br>150 ppm STEL; 560 mg/m3 STEL |
| ETHYL ACETATE<br>141-78-6 | 400 ppm TWA; 1400 mg/m3 TWA | 400 ppm TWA | NIOSH: 400 ppm TWA; 1400 mg/m3 TWA |
| Propane<br>74-98-6 | 1000 ppm TWA; 1800 mg/m3 TWA | See Appendix F: Minimal Oxygen Content, explosion hazard | NIOSH: 1000 ppm TWA; 1800 mg/m3 TWA |
| ISOBUTYL ACETATE<br>110-19-0 | 150 ppm TWA; 700 mg/m3 TWA | 150 ppm STEL (listed under Butyl acetates, all isomers)<br>50 ppm TWA (listed under Butyl acetates, all isomers) | NIOSH: 150 ppm TWA; 700 mg/m3 TWA |
| Butane<br>106-97-8 | | 1000 ppm STEL (explosion hazard, listed under Butane, isomers) | NIOSH: 800 ppm TWA; 1900 mg/m3 TWA |
| Nitrocellulose<br>9004-70-0 | | | |
| DOA PLASTICIZER<br>103-23-1 | | | |
| Ethyl alcohol<br>64-17-5 | 1000 ppm TWA; 1900 mg/m3 TWA | 1000 ppm STEL | NIOSH: 1000 ppm TWA; 1900 mg/m3 TWA |
| Isopropyl alcohol<br>67-63-0 | 400 ppm TWA; 980 mg/m3 TWA | 400 ppm STEL<br>200 ppm TWA | NIOSH: 400 ppm TWA; 980 mg/m3 TWA<br>500 ppm STEL; 1225 mg/m3 STEL |
| 2-BUTOXYETHANOL<br>111-76-2 | 50 ppm TWA; 240 mg/m3 TWA | 20 ppm TWA | NIOSH: 5 ppm TWA; 24 mg/m3 TWA |

Use local exhaust as required to control vapor concentrations.
Avoid prolonged or repeated breathing of vapors.

**Respiratory Protection:**
If exposure exceeds TLV or PELs, use NIOSH approved respirator to prevent overexposure.

**Skin Protection:**
Required for prolonged or repeated contact. Wear resistant gloves such as natural rubber, neoprene, buna N or nitrile.
An apron should be worn to avoid skin contact.

**Eye Protection:**
Wear splash proof googles and face shield if there is a likelihood of contact with eyes.

**Hygenic Practices**
Wash hands thoroughly before eating or using the restroom. Remove contaminated clothing immediately and do not wear again until it has been properly laundered.

**SECTION 9 - Physical and Chemical Properties**

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|---|---|
| **Vapor Density** Heavier Than Air | **Evaporation Rate** Faster than Butyl Acetate |
| **Boiling range:** 34 - 214°C | **Melting point:** N/A |
| **Freezing point:** N/A | **Flash point:** -139°F,-95°C |

| | |
|---|---|
| **Flammability:** N/A | **Explosive Limits:** N/A |
| **Autoignition temperature:** 170°C | **Decomposition temperature:** N/A |
| **Relative Density:** N/A | **Vapor Pressure** N/A |
| **Odor threshold:** N/A | **pH:** N/A |
| **SPECIFIC GRAVITY** 0.7780 | **Solubility:** N/A |
| **Partition coefficient (n-octanol/water):** N/A | **Viscosity:** N/A |
| **Grams VOC less water:** N/A | **% VOLUME VOLATILE (VOC)** 90.4427 |
| **% WT. VOLATILE (VOC)** 85.5810 | **% Pig. by wt.** 0.1538 |
| **Lbs VOC/Gallon Solids** 59.2177 | **VOLATILE WT%** 85.8310 |
| **SOLIDS VOL%** 9.3629 | **DENSITY (Lb/Gal)** 6.4786 |
| **SPREAD @ 1 MIL** 150.1806 | **HAPS (lbs/gl)** 1.1923 |
| **Appearance** Sprayed Liquid Aerosol | **Odor** N/A |
| **Physical State** Liquid Aerosol | **Material VOC (g/l)** 664.3956 |
| **Coating VOC (g/l)** 665.6901 | **Material VOC (Lb/Gl)** 5.5445 |
| **Coating VOC (Lb/Gl)** 5.5553 | |

## SECTION 10 - Stability and Reactivity

**Stability:** Stable under normal conditions.

**Materials to Avoid:** Strong oxidizing agents, strong alkalines, strong mineral acids.

**Conditions to avoid:** high heat, sparks, flames, static discharge.

**Hazardous Decomposition:** Oxidation may produce carbon and nitrogen oxides.

Hazardous polymerization will not occur.

## SECTION 11 - Toxicological Information

**Mixture Toxicity**

Inhalation Toxicity LC50: 64mg/L

**Component Toxicity**

| | |
|---|---|
| 108-88-3 | TOLUENE<br>Oral LD50: 2,600 mg/kg (Rat) Inhalation LC50: 13 mg/L (Rat) |
| 67-63-0 | Isopropyl alcohol<br>Oral LD50: 1,870 mg/kg (Rat) Dermal LD50: 4,059 mg/kg (Rabbit) |
| 111-76-2 | 2-BUTOXYETHANOL<br>Oral LD50: 470 mg/kg (Rat) Dermal LD50: 99 mg/kg (Rabbit) Inhalation LC50: 486 ppm (Rat) |

**Primary Routes of Entry:** Inhalation, Skin Contact, Eyes, Ingestion

**Skin:**
Skin contact can cause redness, dryness or rash. Prolonged contact can cause irritation, dry skin, cracks, and dermititis.

**Ingestion:**
Can cause vomiting, nausea, diarrhea, and gastrointestinal irritation.

**Inhalation:**
Excessive inhalation of vapors can cause nasal and repiratory irritation, dizziness, weakness, fatigue, nausea, headache possible unconsciousness and even asphyxiation. High vapor concentrations or porlonged breathing of lower concentrations may result in damage to the liver, kidneys, lungs and blood forming organs . Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage.

**Eyes:**
Can cause irritation, redness, tearing and blurred vision.

**Carcinogenicity:** The following chemicals comprise 0.1% or more of this mixture and are listed and/or classified as carcinogens or potential carcinogens by NTP, IARC, OSHA (mandatory listing), or ACGIH (optional listing).

| CAS Number | Description | % Weight | Carcinogen Rating |
|---|---|---|---|
| 106-97-8 | Butane | 5% - 10% | Butane: EU REACH: Present (C) (containing >=0.1% Butadiene) |
| 64-17-5 | Ethyl alcohol | 1% - 5% | Ethyl alcohol: IARC: Human carcinogen<br>OSHA: listed |

## SECTION 12 - Ecological Information

**Ecological Information:**
Uncontrolled release of the product may result in contamination of air, ground, waterways and/or sewers.

**Component Ecotoxicity**

| | |
|---|---|
| TOLUENE | LC50 96 h Pimephales promelas 15.22 - 19.05 mg/L [flow-through] (1 day old, EPA); LC50 96 h Pimephales promelas 12.6 mg/L [static] (EPA); LC50 96 h Oncorhynchus mykiss 5.89 - 7.81 mg/L [flow-through] (EPA); LC50 96 h Oncorhynchus mykiss 14.1 - 17.16 mg/L [static] (EPA); LC50 96 h Oncorhynchus mykiss 5.8 mg/L [semi-static] (EPA); LC50 96 h Lepomis macrochirus 11.0 - 15.0 mg/L [static] (EPA); LC50 96 h Oryzias latipes 54 mg/L [static] (EPA); LC50 96 h Poecilia reticulata 28.2 mg/L [semi-static] (EPA); LC50 96 h Poecilia reticulata 50.87 - 70.34 mg/L [static] (EPA)<br>EC50 48 h Daphnia magna 5.46 - 9.83 mg/L [Static] (EPA); EC50 48 h Daphnia magna 11.5 mg/L (IUCLID)<br>EC50 96 h Pseudokirchneriella subcapitata >433 mg/L (IUCLID); EC50 72 h Pseudokirchneriella subcapitata 12.5 mg/L [static] (EPA) |
| ETHYL ACETATE | LC50 96 h Pimephales promelas 220 - 250 mg/L [flow-through] (EPA); LC50 96 h Oncorhynchus mykiss 484 mg/L [flow-through] (IUCLID); LC50 96 h Oncorhynchus mykiss 352 - 500 mg/L [semi-static] (EPA)<br>EC50 48 h Daphnia magna 560 mg/L [Static] (EPA) |
| DOA PLASTICIZER | LC50 96 h Lepomis macrochirus 0.48 - 0.85 mg/L [static] (EPA); LC50 96 h Oncorhynchus mykiss 0.48 - 0.85 mg/L [static] (EPA); LC50 96 h Pimephales promelas 0.48 - 0.85 mg/L [static] (EPA)<br>EC50 48 h Daphnia magna >1.6 mg/L (IUCLID)<br>EC50 72 h Desmodesmus subspicatus >500 mg/L (IUCLID) |
| Ethyl alcohol | LC50 96 h Oncorhynchus mykiss 12.0 - 16.0 mL/L [static] (EPA); LC50 96 h Pimephales promelas >100 mg/L [static] (EPA); LC50 96 h Pimephales promelas 13400 - 15100 mg/L [flow-through] (EPA)<br>LC50 48 h Daphnia magna 9268 - 14221 mg/L (IUCLID); EC50 48 h Daphnia magna 2 mg/L [Static] (EPA) |
| Isopropyl alcohol | LC50 96 h Pimephales promelas 9640 mg/L [flow-through] (IUCLID); LC50 96 h Pimephales promelas 11130 mg/L [static] (IUCLID); LC50 96 h Lepomis macrochirus >1400000 µg/L (EPA)<br>EC50 48 h Daphnia magna 13299 mg/L (IUCLID)<br>EC50 96 h Desmodesmus subspicatus >1000 mg/L (IUCLID); EC50 72 h Desmodesmus subspicatus >1000 mg/L (IUCLID) |
| 2-BUTOXYETHANOL | LC50 96 h Lepomis macrochirus 1490 mg/L [static] (EPA); LC50 96 h Lepomis macrochirus 2950 mg/L (IUCLID)<br>EC50 48 h Daphnia magna >1000 mg/L (EPA) |

## SECTION 13 - Disposal Considerations

Do not flush to sewer, watershed or waterway. Dispose of product in accordance with applicable local, county, state and federal regulations. See Section 8 for information on exposure control and necessary personal protective equipment.

## SECTION 14 - Transportation Information

Ship according to the Department of Transportation (DOT) 49 CFR regulations.

| Agency | Proper Shipping Name | UN Number | Packing Group | Hazard Class |
|---|---|---|---|---|
| DOT | AEROSOL FLAMABLE | 1950 | | 2.1 |

**Freight Class:** 70

## SECTION 15 - Regulatory Information

**California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986)**:
This product contains the follosing listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute.

64-17-5 Ethyl alcohol
108-88-3 TOLUENE

**The following ingredients are listed in the TSCA Section 8(b) Inventory (Hydrated forms of chemical substances are exempt from the inventory as mixtures; the anhydrous chemical substances, however, are reportable for the Inventory):**

111-76-2 2-BUTOXYETHANOL
67-63-0 Isopropyl alcohol
64-17-5 Ethyl alcohol
103-23-1 DOA PLASTICIZER
9004-70-0 Nitrocellulose
68038-41-5 Rosin, maleated, polymer with glycerol
106-97-8 Butane
110-19-0 ISOBUTYL ACETATE
74-98-6 Propane
141-78-6 ETHYL ACETATE
108-88-3 TOLUENE

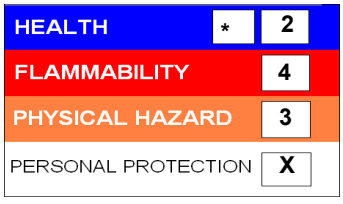
**US CAA Section 112 Hazardous Air Pollutants (HAPs) List**

108-88-3 TOLUENE

**US EPCRA (SARA Title III) Section 313 - Toxic Chemical:**

67-63-0 Isopropyl alcohol
108-88-3 TOLUENE

**Hazardous Material Information System (HMIS)**




**HMIS & NFPA Hazard Rating Legend**
*** = Chronic Health Hazard**
**0 = INSIGNIFICANT**
**1 = SLIGHT**
**2 = MODERATE**
**3 = HIGH**

## SECTION 16 - Disclaimer

Date Prepared: 1/15/2019
Date revised: 2019-01-11 Reviewer Revision 2

THIS DOCUMENT SUPERSEDES ANY PROVISION CONTAINED IN THE FORMS, LETTERS, AND PAPERS OF YOUR COMPANY. THIS PRODUCT IS DESIGNED AND INTENDED FOR PROFESSIONAL APPLICATION ONLY. ALL PRODUCTS SHOULD BE THOROUGHLY TESTED UNDER APPLICATION CONDITIONS PRIOR TO USE. THE INFORMATION CONTAINED HEREIN IS BELIEVED TO BE RELIABLE.HOWEVER, GEMINI MAKES NO WARRANTY CONCERNING THIS PRODUCT, WHETHER EXPRESS OR IMPLIED. INCLUDING THE WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. UNDER NO CIRCUMSTANCES SHALL GEMINI BE LIABLE FOR SPECIAL, INCIDENTAL, CONSEQUENTIAL OR ANY OTHER DAMAGES FROM ALLEGED NEGLIGENCE, BREACH OR WARRANTY, STRICT LIABILITY, OR ANY OTHER LEGAL THEORY,ARISING OUT OF

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