

Date Prepared: 03/31/09
Supersedes: 08/15/03
Product Name: Aquanil Plus 100

ChemMasters

Material Safety Data Sheet

1. Chemical Product and Company Information

Product Name: Aquanil Plus 100

ChemMasters
300 Edwards Street
Madison, Ohio 44057
440-428-2105

In Case of Emergency Contact:
CHEMTREC 800/424-9300

2. Hazards Identification

CAUTION
OSHA COMBUSTIBLE LIQUID, Flash Point 125 °F
Harmful if swallowed
May cause eye, skin and lung irritation
May be harmful if inhaled

WHMIS Classification: Class D2B & B3 (Toxic & Flammable)
Symbol: Stylized T & Flammable

Potential Health Hazards - Acute

Eye: No acute toxic effects are expected.
Skin: No acute toxic effects are expected.
Inhalation: Long term, repeated, high level overexposures may cause lung damage.
Ingestion: Not expected in industrial use.

Additional information on acute health effects: This material releases methanol (methyl alcohol) upon hydrolysis. According to literature methanol (CAS# 67-56-1) irritates mucous membranes, has skin drying and narcotic effects up to coma or death. Absorption by the skin is possible. Possibility of damage to heart, kidneys, liver and optic nerves (blindness) over a period of time.

Potential Health Effects - Chronic - See Acute hazards

Medical conditions which may be aggravated by exposure:

Methanol may aggravate existing liver and/or kidney diseases.

| | | | |
|-------------------------|------------|------------------------|-----------------------|
| Carcinogenicity: | NTP | IARC Monographs | OSHA Regulated |
| | NO | NO | NO |

There are no carcinogenic ingredients present at or over 0.1% in this material.

Reproductive Toxins:

This material does not contain any reproductive toxins at or above OSHA or WHMIS reportable levels.

HMIS Rating:

Health:1, Fire: 2, Reactivity: 1, PPE: G

Note: Respiratory protection is only recommended in the event that ventilation or engineering controls are unable to maintain exposures below recommended levels; or in the event of a spill or other emergency response situation.

*This MSDS and HMIS Rating is based on contact with the product as packaged and any hydrolysis by-products.

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3. Composition / Information on Ingredients

| Composition | CAS # | Exposure Limits | | % by Wt | |
|----------------------------|------------|-----------------|-----------------|---------|---------|
| | | OSHA(PEL/TWA) | ACGIH (TLV/TWA) | OTHER | |
| Isooctyl Trimethoxy Silane | 34396-03-7 | NE | NE | — | 60-100% |

4. First Aid Measures

Eye: Immediately flush with plenty of clean water. Get medical attention if irritation occurs.

Skin: Remove contaminated clothing. Clean affected area(s) thoroughly with soap and water. Get medical attention if irritation occurs.

Inhalation: Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.

Ingestion: If swallowed, give victim several glasses of water. Induce vomiting immediately as directed by medical personnel. Seek medical attention immediately!

Note to Physician: In case of contact with water material splits off (also in gastrointestinal tract) methanol in larger amounts; therefore consider poisoning on methanol and also observe known period of latency of several days.

5. Fire Fighting Measures

Flash Point (method used): 125°F (TCC)

Flammable Limits (% volume in air): **Lower** = 1 **Upper** = 6

Auto Ignition Temperature: No data available

Extinguishing Media: Extinguish with water fog, dry chemical, CO2 or foam.

Hazard Combustion Products: Carbon dioxide and carbon monoxide.

Fire Fighting Instructions: Do not enter confined fire space without full bunker gear including a positive pressure, NIOSH approved, self-contained breathing apparatus. Cool containers exposed to fire with water.

6. Accidental Release Measures

Spill: Shut off ignition sources. Absorb with inert material, then place in chemical waste container for later disposal.

7. Handling and Storage

Handling: Avoid inhalation of vapors and personal contact with product. Keep liquid away from heat, sparks and flame. Use with adequate ventilation. "Empty" containers can contain explosive vapors. Do not cut, drill, grind, weld or perform similar operations on or near containers. Do not pressurize drums to empty them.

Storage: Store containers tightly closed with adequate ventilation in a cool, dry area. Protect against moisture.

8. Exposure Controls / Personal Protection

Exposure Controls: For outdoor use, exposure controls are not normally necessary. However; if spraying outdoors and material may be misting on the applicator or those nearby, then protective clothing, goggles, rubber gloves and a NIOSH approved organic vapor respirator should be used.

Personal Protection: Protective clothing, goggles, rubber gloves and a NIOSH approved organic vapor respirator should be used when the TLV for methanol is exceeded.

9. Physical and Chemical Properties

Appearance: Clear liquid of low viscosity

Odor: Slight

Boiling Point: 194°F

Melting Point: Not applicable

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9. Physical and Chemical Properties continued ...

Vapor Pressure (mm/Hg): 10 @ 122°F*
Vapor Density (Air = 1): 4.8*
Solubility in Water: Negligible (<5%)
Specific Gravity (H₂O = 1): 0.9 g/cm³
Evaporation Rate (n-Butyl Acetate = 1): <0.1*
*estimated

10. Stability and Reactivity

Chemical Stability: Stable
Conditions to Avoid: Heat, sparks and flame
Incompatibility (materials to avoid): Strong oxidizing agents.
Hazardous Decomposition or By-products: Thermal decomposition in the presence of air may yield carbon monoxide and/or carbon dioxide.
Hazardous Polymerization: Will not occur

11. Toxicological Information

Toxicological testing has been conducted with this material.

| Components | Oral LD50 (rat) | Dermal LD50 (rabbit) | Inhalation LD50/LC50 (rat) |
|----------------------------|--------------------|-------------------------|--|
| Isooctyl Trimethoxy Silane | >2000mg/kg | Not irritating | >11.2mg/l/4hrs (spray)* 3 mg/l/6h/d (spray)** |

* Acute Toxicity:

** Subacute to Chronic Toxicity: Repeated Dose Inhalation Toxicity: 28-day or 14 day study.

12. Ecological Information

The product of hydrolysis (methanol) is highly biodegradable. Silicone content: Biologically not degradable.

13. Disposal Considerations

Dispose of in accordance with all federal, state, and local regulations. If uncertain of local requirements, contact the proper environmental authorities for information on waste disposal in your area.
Under RCRA 40 CFR 261 this material is hazardous waste number D001.

14. Transportation Information

For U S National Shipments: (≤ 119 gal containers) Not Regulated

For U S National Shipments: (> 119 gal containers)

Shipping Description: Resin Solution, Combustible Liquid, UN1866, III

Hazard Class: Combustible Liquid

For International and Air Shipments: Resin Solution, 3, UN1866, III

Hazard Class: Flammable Liquid

Emergency Response Guide Number: 127

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15. Regulatory Information

OSHA: This material is hazardous by definition of Hazardous Communications Standard (29 CFR 1910.1200)

CERCLA Reportable Quantity: No

SARA Title III:

Section 311/312 hazard categories: acute health, delayed health, fire

Section 313 reportable ingredients:

| Components | CAS # | Maximum % |
|------------|-------|-----------|
| None | | |

16. Other Information

MSDS Status: Revised entire 3/31/09

Industrial Abbreviation Legend on page 4 of this MSDS.

Industrial Abbreviation Legend

| | | | |
|--------|--|-------------------|---|
| ACGIH | American Conference of Governmental Industrial Hygienists | mg/m ³ | milligrams per cubic meter |
| CAA | Clean Air Act (EPA) | NIOSH | National Institute for Occupational Safety and Health |
| CERCLA | Comprehensive Environmental Response, Compensation & Liability Act of 1980 (Superfund) (EPA) | NTP | National Toxicology Program |
| CNS | Central Nervous System | OSHA | Occupational Safety and Health Administration |
| CWA | Clean Water Act (EPA) | PEL | Permissible Exposure Limit |
| DOT | Department of Transportation | ppm | parts per million |
| EPA | Environmental Protection Agency | RCRA | Resource Conservation and Recovery Act (EPA) |
| g/kg | grams per kilogram | SARA | EPA's Superfund Amendment and Reauthorization Act (EPA) |
| IARC | Internal Agency for Research on Cancer | STEL | Short-Term Exposure Limit, ACGIH terminology |
| LC50 | Lethal Concentration in which 50% of the test animals are expected to die | TLV | Threshold Limit Value |
| LD50 | Lethal Dose in which 50% of the test animals are expected to die | TWA | Time-Weighted Average |

THIS PRODUCT IS FORMULATED AND LABELED FOR INDUSTRIAL AND COMMERCIAL APPLICATION ONLY

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