

# S A F E T Y   D A T A   S H E E T



## Madison Chemical Co., Inc.

3141 Clifty Drive • Madison, IN 47250

### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

NAME: **AQUABLITZ 124**

TYPE: Alkaline cleaner  
PRODUCT #: 180961

**FOR INDUSTRIAL USE ONLY – KEEP OUT OF THE REACH OF CHILDREN**

#### EMERGENCY RESPONSE INFORMATION:

CHEMTREC 800-424-9300 24-Hour Service  
Company Offices: 812-273-6000 Weekdays  
PREPARED DATE: 04-01-15 PREPARED BY: David Craft

### SECTION 2: HAZARDS IDENTIFICATION

GHS Classification	Acute toxicity - oral	Category 5	H303
	Skin Corrosion/Irritation	Category 3	H316
	Serious Eye Damage/Eye Irritation	Category 2B	H320
	Acute Toxicity, Inhalation	Category 4	H332
	Specific Target Organ Toxicity	Category 2	H373
	Aquatic Toxicity (Acute)	Category 3	H402

Signal Word **WARNING**

Symbol



Hazard Statements	H303	May be harmful if swallowed.
	H316	Causes mild skin irritation.
	H320	Causes eye irritation.
	H332	Harmful if inhaled.
	H373	May cause damage to organs (liver, kidney) through prolonged or repeated exposure.
	H402	Harmful to aquatic life.

Precautionary Statements	P264	Wash hands, forearms, and exposed areas thoroughly after handling.
	P270	Do not eat, drink, or smoke when using this product.
	P273	Avoid release to the environment.
	P280	Wear eye protection, face protection, protective clothing, protective gloves.
	P301 + P330	IF SWALLOWED: rinse mouth.
	P302 + P362 + P364	IF ON SKIN: Take off contaminated clothing and wash it before reuse.
	P304 + P312	IF INHALED: Call a POISON CENTER or doctor if you feel unwell.
	P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P314	Get medical attention if you feel unwell.
	P321	Specific treatment (see Section 4).
	P362	Take off contaminated clothing and wash before reuse.
	P501	Dispose of contents / container according to local, regional, national and international regulations.

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## SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

<u>COMPONENT</u>	<u>SYNONYM</u>	<u>CAS NO.</u>	<u>% BY WEIGHT</u>
Dipropylene glycol methyl ether	DPM	34590-94-8	5 – 15
4-isopropenyl-1-methylcyclohexene	d-limonene	5989-27-5	5 - 15
Potassium hydroxide	Caustic potash	1310-58-3	1 – 10
Ethanolamine	Monoethanolamine MEA	141-43-5	1 - 10

## SECTION 4: FIRST AID MEASURES

### DESCRIPTION OF FIRST AID MEASURES:

<b>EYES:</b>	Immediately flush with large quantities of cool water continuously for at least 15 minutes. Call a physician.
<b>SKIN:</b>	Immediately flush with large quantities of cool water continuously for at least 15 minutes. Call a physician. Remove contaminated clothing and shoes. Do not put contaminated clothing and shoes back on. Wash clothing and shoes thoroughly in soap and water; rinse repeatedly in clean water and dry before reuse.
<b>INGESTION:</b>	Give water. Call a physician. DO NOT give anything by mouth if the person is unconscious or if having convulsions.
<b>INHALATION:</b>	Move subject to fresh air and get medical attention.
<b>PRIMARY ROUTE(S) OF ENTRY:</b>	Eyes, skin.

### MOST IMPORTANT SYMPTOMS / EFFECTS, ACUTE AND DELAYED:

<b>EYE CONTACT:</b>	Contacted areas may exhibit irritation. Acute overexposure without water flushing may result in burns.
<b>SKIN CONTACT:</b>	Contacted areas may exhibit irritation. Acute overexposure without water flushing may result in burns.
<b>INGESTION:</b>	May be harmful if swallowed. May cause irritation, burns, diarrhea or weakness.
<b>INHALATION:</b>	May cause nasal and respiratory irritation.
<b>CHRONIC SYMPTOMS:</b>	Chronic overexposure to dipropylene glycol methyl ether has apparently been found to cause liver abnormalities and kidney damage in laboratory animals. Long-term oral and dermal studies with ethanolamines in animals have been shown to produce liver and kidney damage.

### INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED, IF NECESSARY:

If you experience any of the symptoms / effects listed above seek medical advice.

## SECTION 5: FIRE FIGHTING MEASURES

### EXTINGUISHING MEDIA:

Use extinguishing media as appropriate for surrounding fire.

### SPECIFIC HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:

Not considered flammable or explosive. Hazardous reactions will not occur under normal conditions.

### ADVICE FOR FIRE FIGHTERS:

Wear self-contained breathing apparatus and full protective clothing. Use water spray to keep containers cool. **Hazardous Combustion Products:** Carbon monoxide, carbon dioxide.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES:

Avoid all contact with skin, eyes and clothing. Wear safety eyewear to protect against unexpected splashes. Wear suitable protective clothing. Use NIOSH / MSHA approved positive pressure self-contained breathing apparatus when any material is involved in a fire.

### METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:

Contain liquid spills with sand and absorb on inert material. Dispose with solid waste. See Waste Disposal Method. Do not discharge to sewers or waterways without proper treatment.

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## SECTION 7: HANDLING AND STORAGE

### PRECAUTIONS FOR SAFE HANDLING:

Wear proper safety equipment when handling this product. Handle in accordance with good industrial hygiene and safety procedures.

### CONDITIONS FOR SAFE STORAGE, INCLUDING INCOMPATIBILITIES:

Normal for alkaline materials. Store away from acids and strong oxidizing agents. Keep container closed when not in use.

## SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

### EXPOSURE GUIDELINES:

<u>CHEMICAL IDENTITY</u>	<u>CAS NO.</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Dipropylene glycol methyl ether	34590-94-8	100 ppm (skin)	100 ppm
Potassium hydroxide	1310-58-3	N.E.	2 mg / M <sup>3</sup> *
4-isopropenyl-1-methylcyclohexene	5989-27-5	N.E.	N.E.
Ethanolamine	141-43-5	3 ppm	3 ppm

\*Denotes ceiling limit.

### ENGINEERING CONTROLS:

Use good ventilation. Local exhaust is recommended if TLVs are exceeded.

### INDIVIDUAL PROTECTION MEASURES:

Selection of personal protective equipment should be based upon the anticipated exposure and made in accordance with OSHA's Personal Protective Equipment Standard found in 29 CFR 1910 Subpart I. The following information may be used to assist in PPE selection.

### RESPIRATORY PROTECTION:

In absence of proper environmental control, use NIOSH / MSHA approved positive pressure supplied air respirator for mists where airborne exposure is excessive.

### SKIN PROTECTION:

Impermeable gloves. Other equipment as required to avoid contact.

### EYE PROTECTION:

Safety eyewear to protect against unexpected splashes.

### GENERAL HYGIENE CONSIDERATIONS:

Eyewash facility and emergency shower should be in close proximity. Always wash hands after handling any chemical.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Clear, blue liquid.
ODOR:	Mild ammoniacal.
ODOR THRESHOLD:	Not available.
pH (100%):	13.0 – 13.5
MELTING POINT/FREEZING POINT	25°F.
INITIAL BOILING POINT AND BOILING RANGE	213°F (100°C)
FLASH POINT (METHOD USED)	Not available.
EVAPORATION RATE	1.0 (water = 1).
FLAMMABILITY (SOLID, GAS)	Not available.
UPPER/LOWER FLAMMABLE OR EXPLOSIVE LIMIT	Not available.
VAPOR PRESSURE	Not available.
VAPOR DENSITY	Not available.
SPECIFIC GRAVITY	1.03
SOLUBILITY IN WATER	Complete.
PARTITION COEFFICIENT: N-OCTANOL/WATER	Not available.
AUTO-IGNITION TEMPERATURE	Not available.
VISCOSITY, DYNAMIC	Not available.
DECOMPOSITION TEMPERATURE	Not available.
VISCOSITY	Not available.

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## SECTION 10: STABILITY AND REACTIVITY

<b>REACTIVITY:</b>	Hazardous reactions will not occur under normal conditions.
<b>CHEMICAL STABILITY:</b>	Stable under recommended handling and storage conditions (see Section 7).
<b>POSSIBILITY OF HAZARDOUS REACTIONS:</b>	Hazardous polymerization will not occur.
<b>CONDITIONS TO AVOID:</b>	Heat, sparks and open flame.
<b>INCOMPATIBLE MATERIALS:</b>	Strong oxidizing agents, acids.
<b>HAZARDOUS DECOMPOSITION PRODUCTS:</b>	Carbon monoxide, carbon dioxide, aldehydes, various hydrocarbons, oxides of phosphorus and nitrous oxides.

## SECTION 11: TOXOLOGICAL INFORMATION

<b>ACUTE TOXICITY:</b>	Not classified.
<b>LD50 AND LC50 DATA:</b>	Not available.
<b>ROUTES OF EXPOSURE / SYMPTOMS</b>	
<b>EYES:</b>	WARNING! Contacted areas may exhibit irritation. Acute overexposure without water flushing may result in burns.
<b>SKIN:</b>	WARNING! Contacted areas may exhibit irritation. Acute overexposure without water flushing may result in burns.
<b>INGESTION:</b>	WARNING! May be harmful if swallowed. May cause irritation, burns, diarrhea or weakness.
<b>INHALATION:</b>	May cause nasal and respiratory irritation.
<b>GERM CELL MUTAGENICITY:</b>	Not classified.
<b>TERATOGENICITY:</b>	Not available.
<b>CHRONIC EFFECTS / CARCINOGENICITY:</b>	This material contains no ingredient above de minimus concentrations known or suspected to cause cancer. .
<b>SPECIFIC TARGET ORGAN TOXICITY (Repeated exposure):</b>	Chronic overexposure to dipropylene glycol methyl ether has apparently been found to cause liver and kidney injury, blood abnormalities and gastrointestinal effects in laboratory animals. Long-term oral and dermal studies with ethanolamines in animals have been shown to produce liver and kidney damage
<b>REPRODUCTIVE TOXICITY:</b>	Not classified.
<b>SPECIFIC TARGET ORGAN TOXICITY (Single exposure):</b>	Not classified.
<b>ASPIRATION HAZARD:</b>	Not classified.
<b>COMPONENT INFORMATION:</b>	
	LD50 Oral: No data
Dipropylene glycol methyl ether	LD50 Dermal rabbit: 9,510 mg/kg
	LC50 Inhalation rat: 552 ppm 7 hours
4-isopropenyl-1-methylcyclohexene	LD50 Oral Rabbit: >5 g/kg
	LD50 Dermal Rabbit: >5 g/kg
	LC50 Inhalation Mice: >1 g/kg
	LD50 Oral Rat: 214 mg/kg
Potassium hydroxide	LD50 Dermal: No data
	LC50 Inhalation: No data
	LD50 Oral Rat: 1,100 mg/kg
Ethanolamine	LD50 Dermal Rabbit: 2,500 mg/kg
	LC50 Inhalation Rat: >520 ppm/6 hrs

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## SECTION 12: ECOLOGICAL INFORMATION

**ECOTOXICITY** The ecotoxicity of this product is not known

**COMPONENT INFORMATION**

Dipropylene glycol methyl ether	<p><b>Acute Toxicity:</b>                      LC50 fathead minnow: 10,000mg/l 96 hours                      LC50 <i>Daphnia magna</i>: 1,919 mg/l 48 hours                      EC50 <i>selenastrum capricomutum</i>: 1,000 mg/l 72 hours                      EC10 <i>pseudomonay putida</i> cell growth: 4,168 mg/l</p> <p><b>Chronic Toxicity:</b>                      NOEC daphnia magna: 0.5 mg/l 22 days</p>
4-isopropenyl-1-methylcyclohexene	<p>LC50 Fish (<i>Oncorhynchus mykiss</i>) Rainbow trout: 35 mg/l/94 hr                      EC50 Water flea (<i>Daphnia pulex</i>): 69.6 mg/l/48 hr (static)</p>
Potassium hydroxide	<p><b>Freshwater Fish Toxicity Data:</b>                      LC50 Mosquito fish: 80 mg/L/96 hr (static)                      LC50 Fathead minnow: 179 mg/L/96 hr (static)</p> <p><b>Invertebrate Toxicity Data:</b>                      EC50 Daphnia magna: 60 mg/L/48 hr (static)</p>
Ethanolamine	<p>LC50 Fish (<i>Cyprinus carpio</i>): 349 mg/l/96 hr                      LC50 Fish (<i>Pimophales promelas</i>): 2,070 mg/l/96 hr                      EC50 Daphnia magna: 65 – 93 mg/l/48 hr</p>

**PERSISTENCE AND DEGRADABILITY:** Not available.  
**BIOACCUMULATIVE POTENTIAL:** Not available.  
**MOBILITY IN SOIL:** Not available.  
**OTHER ADVERSE EFFECTS:** This material contains no hazardous air pollutants (HAPS).

## SECTION 13: DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL METHOD** Normal for alkaline wastes. May require pH adjustment for neutralization. Dispose in accordance with local, state and federal regulations.

## SECTION 14: TRANSPORTATION INFORMATION

**DOT PROPER SHIPPING NAME:** Compound, cleaning, NOI, liquid  
**HAZARD CLASS:** Not applicable.  
**IDENTIFICATION NUMBER:** Not applicable.  
**PACKING GROUP:** Not applicable.  
**EMERGENCY RESPONSE GUIDE:** Not applicable.

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## SECTION 15: REGULATORY INFORMATION

**VOC:** 1.7 pounds per gallon (200 grams per liter).  
**TSCA STATUS** All ingredients are listed on the TSCA inventory.  
**CERCLA REPORTABLE QUANTITY** 1,000 pounds of potassium hydroxide (approximately 5,173 gallons).

### SARA 311 / 312 HAZARD CLASSES

<input checked="" type="checkbox"/>	ACUTE HEALTH
<input type="checkbox"/>	FIRE
<input type="checkbox"/>	SUDDEN RELEASE OF PRESSURE
<input checked="" type="checkbox"/>	CHRONIC HEALTH
<input type="checkbox"/>	REACTIVE

### SARA 312 INFORMATION

Storage of 10,000 pounds or more may require filing a Tier 2 form. Threshold planning quantity for reporting is 10,000 pounds. This material is not an extremely hazardous substance (EHS).

### SARA 313 INFORMATION

This material contains the following substances subject to the reporting requirements of Section 313 of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372

### CHEMICAL NAME

None

### CATEGORY CODE

### CAS NUMBER

### % BY WEIGHT

### STATE REGULATORY INFORMATION

#### CALIFORNIA PROPOSITION 65

California has not identified the ingredients listed in Section 3 as known to cause cancer or reproductive toxicity.

## SECTION 16: OTHER INFORMATION

**SDS STATUS:** Revised to GHS Standards on 04-01-15.

<b>HEALTH</b>	<b>1</b>
<b>FLAMMABILITY</b>	<b>0</b>
<b>PHYSICAL HAZARD</b>	<b>0</b>

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