



# SAFETY DATA SHEET

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## Section 1: IDENTIFICATION

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### 1.1 PRODUCT IDENTIFIER

**Product Name:** 14A Aqua-Glo  
**Product Code:** Not available.

### 1.2 RECOMMENDED USE OF CHEMICAL AND RESTRICTIONS ON USE

**Use:** Non-Destructive Testing.

### 1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

**Name/Address:** Magnaflux  
155 Harlem Avenue,  
Glenview, Illinois  
60025

**Telephone Number:** 847-657-5300

### 1.4 EMERGENCY TELEPHONE NUMBER

**Emergency Telephone Number:** CHEMTREC 800-424-9300  
**Date of Preparation:** July 18, 2014 **Version #:** 1.1

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## Section 2: HAZARD(S) IDENTIFICATION

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### 2.1 CLASSIFICATION OF THE CHEMICAL ACCORDING TO OSHA HAZCOM 2012

#### Hazard class

Gases Under Pressure - Compressed Gas

### 2.2 LABEL ELEMENTS ACCORDING TO OSHA HAZCOM 2012

#### Hazard Pictogram:



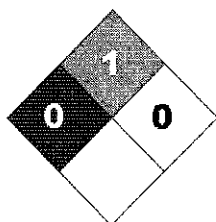
**Signal Word:** Warning  
**Hazard Statement:** Contains gas under pressure; may explode if heated.  
**Prevention:** Not applicable.  
**Response:** Not applicable.  
**Storage:** Protect from sunlight. Store in a well-ventilated place.  
**Disposal:** Not applicable.

### 2.3 ADDITIONAL INFORMATION

**Hazards not otherwise classified:** Not applicable.  
1 % of the mixture consists of ingredient(s) of unknown acute toxicity.

This product is a hazardous chemical as defined by NOM-018-STPS-2000.

## Mexico Classification:



Blue = Health   Red = Flammability   Yellow = Reactivity   White = Special

Hazard Rating: 0 = minimal, 1 = slight, 2 = moderate, 3 = severe, 4 = extreme

## WHMIS Classification(s):

Class A - Compressed Gas

## WHMIS Hazard Symbols:



WHMIS Signal Word:                      CAUTION

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 MIXTURES

Ingredient	UN #	H / F / R / *	CAS No	Wt. %
Carbon dioxide	UN1013	1/0/0	124-38-9	0.5 - 1.5
Monoethanolamine	UN2491	3/2/0	141-43-5	0.1 - 1
Ethylene oxide	UN1040	3/4/3	75-21-8	< 0.1
Acetaldehyde	UN1089	3/4/2	75-07-0	< 0.1
1,4-Dioxane	UN1165	2/3/1	123-91-1	< 0.1

The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

\* Per NOM-018-STPS-2000

## Section 4: FIRST- AID MEASURES

### 4.1 DESCRIPTION OF THE FIRST AID MEASURE

**Eye:** In case of contact, immediately flush eyes with plenty of water. Remove contact lenses, if worn. If irritation persists, get medical attention.

**Skin:** In case of contact, immediately flush skin with plenty of water. Call a physician if irritation develops and persists.

**Inhalation:** If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if

you feel unwell.

**Ingestion:** If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.

#### **4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED**

**Eye:** May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.

**Skin:** May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin.

**Inhalation:** May cause respiratory tract irritation. May cause drowsiness or dizziness.

**Ingestion:** Not normally a hazard. May cause stomach distress, nausea or vomiting.

#### **4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENTS NEEDED**

**Note to Physicians:** Symptoms may not appear immediately.

**Specific Treatments:** In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

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### **Section 5: FIRE-FIGHTING MEASURES**

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#### **5.1 FLAMMABILITY**

**Flammability:** Not flammable by WHMIS/OSHA/NOM-018-STPS-2000 criteria.

#### **5.2 EXTINGUISHING MEDIA**

**Suitable Extinguishing Media:** Treat for surrounding material.

**Unsuitable Extinguishing Media:** None known.

#### **5.3 SPECIAL HAZARDS ARISING FROM THE CHEMICAL**

**Products of Combustion:** May include, and are not limited to: oxides of carbon.

#### **Explosion Data:**

**Sensitivity to Mechanical Impact:** Not available.

**Sensitivity to Static Discharge:** Not available.

#### **5.4 SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE FIGHTERS**

Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA). Use water spray to keep fire-exposed containers cool.

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### **Section 6: ACCIDENTAL RELEASE MEASURES**

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#### **6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES**

Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Ruptured cylinders may rocket.

#### **6.2 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING - UP**



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## 10.4 CONDITIONS TO AVOID

Heat. Incompatible materials.

## 10.5 INCOMPATIBLE MATERIALS

None known.

## 10.6 HAZARDOUS DECOMPOSITION PRODUCTS

May include, and are not limited to: oxides of carbon.

## Section 11: TOXICOLOGICAL INFORMATION

### 11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

**Likely Routes of Exposure:** Skin contact, eye contact, and inhalation.

**Symptoms related to physical/chemical/toxicological characteristics:**

**Eye:** May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.

**Skin:** May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin.

**Ingestion:** Not normally a hazard. May cause stomach distress, nausea or vomiting.

**Inhalation:** May cause respiratory tract irritation. May cause drowsiness or dizziness.

#### Acute Toxicity:

Ingredient	IDLH	LC50	LD50
Carbon dioxide	40,000 ppm	Not available.	Not available.
Monoethanolamine	30 ppm	Not available.	Oral 1720 mg/kg, rat Dermal 1 mL/kg, rabbit Dermal 1025 mg/kg, rabbit
Ethylene oxide	Ca [800 ppm]	Inhalation 800 ppm 4 h, rat	Oral 72 mg/kg, rat
Acetaldehyde	Ca [2000 ppm]	Inhalation 13300 ppm 4h, rat	Oral 1930 mg/kg, rat
1,4-Dioxane	Ca [500 ppm]	Inhalation 48.5 mg/L 4 h, rat	Oral 4200 mg/kg, rat Dermal 7600 mg/kg, rabbit

#### Calculated overall Chemical Acute Toxicity Values

LC50 (inhalation)	LD50 (oral)	LD50 (dermal)
5 mg/L 4 h, rat	> 2000 mg/kg, rat	> 2000 mg/kg, rabbit

Ingredient	Chemical Listed as Carcinogen or Potential Carcinogen (NTP, IARC, OSHA, ACGIH, CP65)*
Carbon dioxide	Not listed.
Monoethanolamine	Not listed.
Ethylene oxide	O, G-A2, I-1, N-1, CP65
Acetaldehyde	G-A3, I-2B, N-2, CP65
1,4-Dioxane	G-A3, I-2B, N-2, CP65

\* See Section 15 for more information.

**11.2 DELAYED, IMMEDIATE, AND CHRONIC EFFECTS OF SHORT- AND LONG-TERM EXPOSURE**

**Skin Corrosion/Irritation:** Based on available data, the classification criteria are not met.  
**Serious Eye Damage/Irritation:** Based on available data, the classification criteria are not met.  
**Respiratory Sensitization:** Based on available data, the classification criteria are not met.  
**Skin Sensitization:** Based on available data, the classification criteria are not met.  
**STOT-Single Exposure:** Based on available data, the classification criteria are not met.

**Chronic Health Effects:**

**Carcinogenicity:** Based on available data, the classification criteria are not met.  
**Germ Cell Mutagenicity:** Based on available data, the classification criteria are not met.

**Reproductive Toxicity:**

**Developmental:** Based on available data, the classification criteria are not met.  
**Teratogenicity:** Based on available data, the classification criteria are not met.  
**Embryotoxicity:** Based on available data, the classification criteria are not met.  
**Fertility:** Based on available data, the classification criteria are not met.  
**STOT-Repeated Exposure:** Based on available data, the classification criteria are not met.  
**Aspiration Hazard:** Based on available data, the classification criteria are not met.  
**Toxicologically Synergistic Materials:** Not available.  
**Other Information:** Not available.

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**Section 12: ECOLOGICAL INFORMATION**

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**12.1 ECOTOXICITY**

**Acute/Chronic Toxicity:** May cause long-term adverse effects in the aquatic environment.

**12.2 PERSISTENCE AND DEGRADABILITY**

Not available.

**12.3 BIOACCUMULATIVE POTENTIAL**

**Bioaccumulation:** Not available.

**12.4 MOBILITY IN SOIL**

Not available.

**12.5 OTHER ADVERSE EFFECTS**

Not available.

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**Section 13: DISPOSAL CONSIDERATIONS**

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**13.1 WASTE TREATMENT METHODS**

**Disposal Method:** This material must be disposed of in accordance with all local, state, provincial, and federal regulations.



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Other disposal recommendations: Not available.

Section 14: TRANSPORT INFORMATION	
DOT	Consumables, Limited Quantities
IATA	UN1950, Aerosols, Non-Flammable, 2.2
IMDG	UN1950, Aerosols, Non-Flammable, 2.2 (Ltd. Qty.)

## Section 15: REGULATORY INFORMATION

### 15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/ LEGISLATIONS SPECIFIC FOR THE CHEMICAL

**Canada:** This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

**US:** SDS prepared pursuant to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

**Mexico:** SDS prepared pursuant to NOM-018-STPS-2000.

SARA Title III				
Ingredient	Section 302 (EHS) TPQ (lbs.)	Section 304 EHS RQ (lbs.)	CERCLA RQ (lbs.)	Section 313
Carbon dioxide	Not listed.	Not listed.	Not listed.	Not listed.
Monoethanolamine	Not listed.	Not listed.	Not listed.	Not listed.
Ethylene oxide	1,000	10	10	313
Acetaldehyde	Not listed.	Not listed.	1,000	313
1,4-Dioxane	Not listed.	Not listed.	100	313

### State Regulations

#### California Proposition 65:

This product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

#### Global Inventories:

Ingredient	Canada DSL/NDSL	USA TSCA
Carbon dioxide	DSL	Yes.
Monoethanolamine	DSL	Yes.
Ethylene oxide	DSL	Yes.
Acetaldehyde	DSL	Yes.
1,4-Dioxane	DSL	Yes.

### NFPA-National Fire Protection Association:

Health:	0
Fire:	1
Reactivity:	0

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HMIS-Hazardous Materials Identification System:	
Health:	0
Fire:	1
Physical Hazard:	0

Hazard Rating: 0 = minimal, 1 = slight, 2 = moderate, 3 = severe, 4 = extreme

## SOURCE AGENCY CARCINOGEN CLASSIFICATIONS:

**CP65** California Proposition 65

**OSHA (O)** Occupational Safety and Health Administration.

**ACGIH (G)** American Conference of Governmental Industrial Hygienists.

A1 - Confirmed human carcinogen.

A2 - Suspected human carcinogen.

A3 - Animal carcinogen.

A4 - Not classifiable as a human carcinogen.

A5 - Not suspected as a human carcinogen.

**IARC (I)** International Agency for Research on Cancer.

1 - The agent (mixture) is carcinogenic to humans.

2A - The agent (mixture) is probably carcinogenic to humans; there is limited evidence of carcinogenicity in humans and sufficient evidence of carcinogenicity in experimental animals.

2B - The agent (mixture) is possibly carcinogenic to humans; there is limited evidence of carcinogenicity in humans in the absence of sufficient evidence of carcinogenicity in experimental animals.

3 - The agent (mixture, exposure circumstance) is not classifiable as to its carcinogenicity to humans.

4 - The agent (mixture, exposure circumstance) is probably not carcinogenic to humans.

**NTP (N)** National Toxicology Program.

1 - Known to be carcinogens.

2 - Reasonably anticipated to be carcinogens.

## Section 16: OTHER INFORMATION

**Date of Preparation:** July 18, 2014

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**Version:** 1.1

**Revision Date:** June 9, 2015

Conforms to OSHA HazCom 2012, CPR & NOM-018-STPS-2000 Standards

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## End of Safety Data Sheet

