

### **Section 1: IDENTIFICATION**

### 1.1 PRODUCT IDENTIFIER

Product Name: WC-1

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: June 27, 2014 Version #: 1.1

Section 2: HAZARD(S) IDENTIFICATION

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

Hazard class

Skin corrosion 1B Serious eye damage 1

### 2.2 LABEL ELEMENTS ACCORDING TO OSHA HAZCOM 2012

## **Hazard Pictogram:**



Signal Word: Danger

Hazard Statement: Causes severe skin burns and eye damage.

**Prevention:** Do not breathe dusts or mists. Wash hands thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.

Response: If swallowed: Rinse mouth. Do NOT induce vomiting. Immediately

call a poison center/doctor. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. Immediately call a poison center/doctor. If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center/doctor. If in eyes: Rinse cautiously with water for several minutes. Remove

Page 1 of 10

Trade Name: WC-1



contact lenses, if present and easy to do. Continue rinsing.

Immediately call a poison center/doctor.

Storage: Store locked up.

**Disposal:** Dispose of contents and container in accordance with all local,

regional, national and international regulations.

### 2.3 ADDITIONAL INFORMATION

Hazards not otherwise classified: Not applicable.

6 % 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 D2A - Teratogenicity and Embryotoxicity

Class E - Corrosive Material

# **WHMIS Hazard Symbols:**





WHMIS Signal Word: DANGER

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

# 3.1 MIXTURES

Ingredient	UN#	H/F/R/*	CAS No	Wt. %
Alcohols, C9-11, ethoxylated	Not available.	Not available.	68439-46-3	10 - 30
Triethanolamine	Not available.	Not available.	102-71-6	7 - 13
Monoethanolamine	UN2491	3/2/0	141-43-5	7 - 13
Undecanedioic acid	Not available.	Not available.	1852-04-6	3 - 7
Dodecanedioic acid	Not available.	Not available.	693-23-2	3 - 7
Ethylene glycol	Not available.	1/1/0	107-21-1	0.1 - 1
Diethanolamine	Not available.	Not available.	111-42-2	< 0.1

Page 2 of 10

Trade Name: WC-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 for at

least 15 minutes. If easy to do, remove contact lenses, if worn. Get

medical attention immediately.

**Skin:** In case of contact, immediately flush skin with plenty of water.

Remove contaminated clothing and shoes. Wash clothing before

reuse. Get medical attention immediately.

**Inhalation:** If inhaled, remove victim to fresh air and keep at rest in a position

comfortable for breathing. Get medical attention immediately.

**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 attention immediately.

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

**Eye:** Causes serious eye damage. Symptoms may include discomfort or

pain, excess blinking and tear production, with marked redness and

swelling of the conjunctiva. May cause burns.

**Skin:** Causes severe skin burns. Symptoms may include redness, drying,

defatting and cracking of the skin.

**Inhalation:** May cause respiratory irritation.

Ingestion: May be harmful if swallowed. 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).

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

### **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, aldehydes,

Page 3 of 10

Trade Name: WC-1



hydrocarbons.

# **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).

### Section 6: ACCIDENTAL RELEASE MEASURES

#### 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. Avoid contact with skin and eyes.

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

**Methods for Containment:** Contain and/or absorb spill with inert material (e.g. sand, vermiculite),

then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).

**Methods for Cleaning-Up:** Scoop up material and place in a disposal container. Provide ventilation.

### **Section 7: HANDLING AND STORAGE**

### 7.1 PRECAUTIONS FOR SAFE HANDLING

**Handling:** Do not get in eyes, on skin, or on clothing. Do not breathe dusts or

mists. Use only in well-ventilated areas. Do not swallow. Handle and open container with care. Do not eat, drink or smoke when using this

product. (See section 8)

General Hygiene Advice: Launder contaminated clothing before reuse. Wash hands before

eating, drinking, or smoking.

# 7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

**Storage:** Keep out of the reach of children. Keep container tightly closed.

Store in a well-ventilated place. Store locked up. (See section 10)

### Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

# **8.1 CONTROL PARAMETERS**

### **Exposure Guidelines**

Occupational Exposure Limits			
Ingredient	OSHA-PEL	ACGIH-TLV	
Alcohols, C9-11, ethoxylated	Not available.	Not available.	
Triethanolamine	Not available.	5 mg/m³	
Monoethanolamine	3 ppm	3 ppm	
Undecanedioic acid	Not available.	Not available.	



Dodecanedioic acid	Not available.	Not available.
Ethylene glycol	50 ppm	50 ppm
Diethanolamine	Not available.	1 mg/m <sup>3</sup> (vapour)

### **8.2 EXPOSURE CONTROLS**

**Engineering Controls:** Use ventilation adequate to keep exposures (airborne levels of dust,

fume, vapor, etc.) below recommended exposure limits.

### **8.3 INDIVIDUAL PROTECTIVE MEASURES**

**Personal Protective Equipment:** 

Eye/Face Protection: Wear approved eye protection (properly fitted dust- or splash-proof

chemical safety goggles) and face protection (face shield).

**Skin Protection:** 

Hand Protection: Chemical-resistant gloves.

Body Protection: Wear suitable protective clothing.

Respiratory Protection: In case of insufficient ventilation, wear suitable respiratory equipment.

Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the

selected respirator.

**General Health and Safety** 

Measures:

Do not eat, smoke or drink where material is handled, processed or

stored. Wash hands carefully before eating or smoking. Wash

contaminated clothing before reusing.

## **Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

### 9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Not available.

Color: Not available.

Odor: Not available.

Odor Threshold: Not available.

Physical State: Liquid. pH: ~ 7

Melting Point/Freezing Point: Not available.

Initial Boiling Point and Boiling Range: Not available.

Flash Point:  $> 149 \,^{\circ}\text{C} (> 300 \,^{\circ}\text{F})$ 

Evaporation Rate:

Flammability:

Lower Flammability/Explosive Limit:

Upper Flammability/Explosive Limit:

Vapor Pressure:

Not available.

Not available.



Vapor Density:Not available.Relative Density/Specific Gravity:Not available.Solubility:Not available.Partition coefficient: n-octanol/water:Not available.Auto-ignition Temperature:Not available.Decomposition Temperature:Not available.Viscosity:Not available.

Oxidizing Properties: Not available.

Explosive Properties: Not available.

## **Section 10: STABILITY AND REACTIVITY**

### **10.1 REACTIVITY**

No dangerous reaction known under conditions of normal use.

### **10.2 CHEMICAL STABILITY**

Stable under normal storage conditions.

### 10.3 POSSIBILITY OF HAZARDOUS REACTIONS

No dangerous reaction known under conditions of normal use.

### **10.4 CONDITIONS TO AVOID**

Heat. Incompatible materials.

# **10.5 INCOMPATIBLE MATERIALS**

Acids. Materials reactive with hydroxyl compounds. Reactive metals. Oxidizing agents.

## 10.6 HAZARDOUS DECOMPOSITION PRODUCTS

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

### **Section 11: TOXICOLOGICAL INFORMATION**

### 11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

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

# Symptoms related to physical/chemical/toxicological characteristics:

Eye: Causes serious eye damage. Symptoms may include discomfort or pain,

excess blinking and tear production, with marked redness and swelling of

the conjunctiva. May cause burns.

**Skin:** Causes severe skin burns. Symptoms may include redness, drying,

defatting and cracking of the skin.

Ingestion: May be harmful if swallowed. May cause stomach distress, nausea or vomiting.

Inhalation: May cause respiratory irritation.



## **Acute Toxicity:**

Ingredient	IDLH	LC50	LD50
			0.514070 .555/155 .554
			Oral 1378 mg/kg, rat
Alcohols, C9-11, ethoxylated	Not available.	Not available.	Dermal >2 g/kg, rabbit
			Oral 4190 mg/kg, rat
Triethanolamine	Not available.	Not available.	Dermal >20 mL/kg, rabbit
			Oral 1720 mg/kg, rat
			Dermal 1 mL/kg, rabbit
Monoethanolamine	30 ppm	Not available.	Dermal 1025 mg/kg, rabbit
Undecanedioic acid	Not available.	Not available.	Not available.
			Oral 4000 mg/kg, rat
Ethylene glycol	Not available.	Not available.	Dermal 9530 µL/kg, rabbit
			Oral > 2000 mg/kg_rat
Dadasas disis said	Niet errelleble	Net evelleble	Oral >3000 mg/kg, rat
Dodecanedioic acid	Not available.	Not available.	Dermal >6000 mg/kg, rabbit
			Oral 620 µL/kg, rat
Diethanolamine	Not available.	Not available.	Dermal 7640 µL/kg, rabbit

Calculated overall Chemical Acute Toxicity Values		
LC50 (inhalation) LD50 (oral) LD50 (dermal)		
Not available.	>2000 mg/kg, rat	>2000 mg/kg, rabbit

Ingredient	Chemical Listed as Carcinogen of Potential Carcinogen (NTP, IARC, OSHA, ACGIH, CP65)	
Alcohols, C9-11, ethoxylated	Not listed.	
Triethanolamine	I-3	
Monoethanolamine	Not listed.	
Undecanedioic acid	Not listed.	
Dodecanedioic acid	Not listed.	
Ethylene glycol	G-A4	
Diethanolamine	O, G-A3, I-2B, CP65	

<sup>\*</sup> See Section 15 for more information.

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

Skin Corrosion/Irritation: Causes severe skin burns.

Serious Eye Damage/Irritation: Causes serious eye damage.

Respiratory Sensitization:

Skin Sensitization:

Based on available data, the classification criteria are not met.

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.

Page 7 of 10

Trade Name: WC-1



**Teratogenicity:** Hazardous by WHMIS criteria. **Embryotoxicity:** Hazardous by WHMIS criteria.

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.

## **Section 12: ECOLOGICAL INFORMATION**

### **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.

## **Section 13: DISPOSAL CONSIDERATIONS**

### 13.1 WASTE TREATMENT METHODS

**Disposal Method:** This material must be disposed of in accordance with all

local, state, provincial, and federal regulations.

Other disposal recommendations: Not available.

### **Section 14: TRANSPORT INFORMATION**

DOT	UN 2491, Ethanolamine solution, 8, III	
(nonbulk)		
IATA	Prohibited	
IMDG	UN 2491, Ethanolamine solution, 8, III	

#### 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

Page 8 of 10

Trade Name: WC-1



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
Alcohols, C9-11, ethoxylated	Not listed.	Not listed.	Not listed.	Not listed.
Triethanolamine	Not listed.	Not listed.	Not listed.	Not listed.
Monoethanolamine	Not listed.	Not listed.	Not listed.	Not listed.
Undecanedioic acid	Not listed.	Not listed.	Not listed.	Not listed.
Dodecanedioic acid	Not listed.	Not listed.	Not listed.	Not listed.
Ethylene glycol	Not listed.	Not listed.	5,000	313
Diethanolamine	Not listed.	Not listed.	100	313

## **State Regulations**

## **California Proposition 65:**

This product contains a chemical or chemicals known to the State of California to cause cancer.

### **Global Inventories:**

Ingredient	Canada DSL/NDSL	USA TSCA
Alcohols, C9-11, ethoxylated	DSL	Yes.
Triethanolamine	DSL	Yes.
Monoethanolamine	DSL	Yes.
Undecanedioic acid	DSL	Yes.
Dodecanedioic acid	DSL	Yes.
Ethylene glycol	DSL	Yes.
Diethanolamine	DSL	Yes.

NFPA-National Fire Protection Association:		
Health:	3	
Fire:	1	
Reactivity:	0	

HMIS-Hazardous Materials Identification System:		
Health:	3*	
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.

Page 9 of 10

Trade Name: WC-1



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: June 27, 2014 Expiry Date: June 27, 2017

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**