# **Safety Data Sheet**

Issue Date: 14-Feb-2009 Revision Date: 09-Dec-2013 Version 1

## 1. IDENTIFICATION

Product Identifier

Product Name M<sup>2</sup>R

Other means of identification

**SDS #** WC-003

Product Code #52 UN/ID No UN1471

Recommended use of the chemical and restrictions on use

Recommended Use Liquid cleaner.

Details of the supplier of the safety data sheet

Supplier Address

Atlantic Solutions Inc. 125 N. Chatham Parkway Ext. Chapel Hill, NC, 27517

**Emergency Telephone Number** 

 Company Phone Number
 919-933-4250

 Emergency Telephone (24 hr)
 919-933-4250

## 2. HAZARDS IDENTIFICATION

Appearance Clear liquid Physical State Liquid Odor Chlorine

#### Classification

Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1
Oxidizing Liquids	Category 3

## Signal Word

Danger

#### **Hazard Statements**

Causes severe skin burns and eye damage May intensify fire; oxidizer





#### **Precautionary Statements - Prevention**

Do not breathe dust/fume/gas/mist/vapors/spray

Wash face, hands and any exposed skin thoroughly after handling

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

Keep away from heat/sparks/open flames/hot surfaces. — No smoking

Keep/Store away from clothing/heat/combustible materials

Take any precaution to avoid mixing with combustibles

#### **Precautionary Statements - Response**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a poison center or doctor/physician

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

Wash contaminated clothing before reuse

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Immediately call a poison center or doctor/physician

IF SWALLOWED: rinse mouth. Do NOT induce vomiting

IN CASE OF FIRE: Use CO2, dry chemical, or foam for extinction

#### **Precautionary Statements - Storage**

Store locked up

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### Other Hazards

Very toxic to aquatic life with long lasting effects

#### **Unknown Acute Toxicity**

9.7% of the mixture consists of ingredient(s) of unknown toxicity

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Lithium Hypochlorite	13840-33-0	9.7

## 4. FIRST-AID MEASURES

#### **First Aid Measures**

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek

immediate medical attention/advice.

**Skin Contact** Wash off immediately with plenty of water. Take off contaminated clothing. Wash

contaminated clothing before reuse. If skin irritation persists, call a physician.

**Inhalation** Remove to fresh air. Call a physician immediately.

**Ingestion** Rinse mouth. Do not induce vomiting. Call a physician or poison control center immediately.

Drink mucilage, raw egg whites, milk, or rice gruel. Follow with a tablespoon of mustard in

a glass of warm water.

#### Most important symptoms and effects

Symptoms May cause eye burns and permanent eye damage. Prolonged contact may even cause

severe skin irritation or mild burn.

## Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

WC-003 - M<sup>2</sup>R Revision Date: 09-Dec-2013

## 5. FIRE-FIGHTING MEASURES

#### **Suitable Extinguishing Media**

Water. Foam. Dry chemical.

Unsuitable Extinguishing Media Not determined.

#### Specific Hazards Arising from the Chemical

Avoid contact with combustible organic substances. May intensify fire; oxidizer.

#### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

## Personal precautions, protective equipment and emergency procedures

**Personal Precautions**Use personal protective equipment as required.

**Environmental Precautions** Avoid release to the environment.

#### Methods and material for containment and cleaning up

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

Methods for Clean-Up Soak up with inert absorbent material. Place in appropriate containers for disposal. Flush

area with flooding quantities of water.

## 7. HANDLING AND STORAGE

#### Precautions for safe handling

Advice on Safe Handling Wash thoroughly after handling. Use personal protection recommended in Section 8. Do

not breathe dust/fume/gas/mist/vapors/spray. Keep away from heat/sparks/open flames/hot

surfaces. — No smoking. Take any precaution to avoid mixing with combustibles.

Keep/Store away from clothing/heat/combustible materials. Avoid contact with skin, eyes or

clothing.

## Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up.

**Incompatible Materials** Organic materials. Combustible material. Acids.

\_\_\_\_

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Guidelines** No exposure limits noted for ingredient(s)

**Appropriate engineering controls** 

Engineering Controls Mechanical ventilation or local exhaust ventilation if available.

#### Individual protection measures, such as personal protective equipment

**Eye/Face Protection** Safety glasses.

**Skin and Body Protection** Wear rubber or plastic gloves. Rubber apron.

**Respiratory Protection** Ensure adequate ventilation, especially in confined areas.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical StateLiquidOdorChlorineAppearanceClear liquidOdor ThresholdNot determinedColorClearOdor ThresholdNot determined

Property Values Remarks • Method

**pH** 12

Melting Point/Freezing Point

Not available

Boiling Point/Boiling Range

Not available

100 °C / 212 °F

Flash Point None
Evaporation Rate Not available
Flammability (Solid, Gas) n/a-liquid
Upper Flammability Limits None
Lower Flammability Limit None

Vapor Pressure Not determined Vapor Density Not available

Specific Gravity 1.0 (1=Water)

Water Solubility Completely soluble Solubility in other solvents Not determined **Partition Coefficient** Not determined **Auto-ignition Temperature** Not determined **Decomposition Temperature** Not determined **Kinematic Viscosity** Not determined **Dynamic Viscosity** Not determined **Explosive Properties** Not determined **Oxidizing Properties** Not determined

## 10. STABILITY AND REACTIVITY

#### Reactivity

Not reactive under normal conditions.

#### **Chemical Stability**

Stable under recommended storage conditions.

#### **Possibility of Hazardous Reactions**

None under normal processing.

**Hazardous Polymerization** Hazardous polymerization does not occur.

#### **Conditions to Avoid**

Fire may result from contact with acids, organic, or combustible matter.

#### **Incompatible Materials**

Organic materials. Combustible material. Acids.

#### **Hazardous Decomposition Products**

None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

## Information on likely routes of exposure

**Product Information** 

**Eye Contact** Causes severe eye damage.

**Skin Contact** Causes severe skin burns.

**Inhalation** Avoid breathing vapors or mists.

**Ingestion** Do not taste or swallow.

## Information on physical, chemical and toxicological effects

**Symptoms** Please see section 4 of this SDS for symptoms.

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Carcinogenicity** Not classifiable as a human carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Lithium Hypochlorite 13840-33-0		Group 3		

#### Leaend

IARC (International Agency for Research on Cancer)

Group 3 IARC components are "not classifiable as human carcinogens"

## Numerical measures of toxicity

Not determined

**Unknown Acute Toxicity** 9.7% of the mixture consists of ingredient(s) of unknown toxicity.

\_\_\_\_\_

## 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Very toxic to aquatic life with long lasting effects.

## Persistence/Degradability

Not determined.

#### **Bioaccumulation**

Not determined.

#### Mobility

Not determined

#### **Other Adverse Effects**

Not determined

## 13. DISPOSAL CONSIDERATIONS

#### **Waste Treatment Methods**

Disposal of Wastes Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated Packaging Disposal should be in accordance with applicable regional, national and local laws and

regulations.

## 14. TRANSPORT INFORMATION

Note Please see current shipping paper for most up to date shipping information, including

exemptions and special circumstances.

DOT

UN/ID No UN1471

Proper Shipping Name Lithium hypochlorite mixture

Hazard Class 5.1 Packing Group III

**IATA** 

UN/ID No UN1471

Proper Shipping Name Lithium hypochlorite mixture

Hazard Class 5.1 Packing Group III

**IMDG** 

UN/ID No UN1471

Proper Shipping Name Lithium hypochlorite mixture

Hazard Class 5.1 Packing Group

Marine Pollutant This material may meet the definition of a marine pollutant

## 15. REGULATORY INFORMATION

#### International Inventories

Not determined

### US Federal Regulations

#### **SARA 313**

Not determined

#### **US State Regulations**

## U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Lithium Hypochlorite	X		
13840-33-0			

## **16. OTHER INFORMATION**

<u>NFPA</u>	<b>Health Hazards</b>	Flammability	Instability	Special Hazards
	Not determined	Not determined	Not determined	Not determined
<u>HMIS</u>	Health Hazards	Flammability	Physical Hazards	Personal Protection
	3	1	2	Not determined

Issue Date: 14-Feb-2009
Revision Date: 09-Dec-2013
Revision Note: New format

#### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**