

**Emergency Telephone Numbers:** 

1-734-753-4410 1-734-753-4160 (Fax)

Ask for AJF Inc. Quality Dept

## **SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

OHSA 29 CFR 1910.1200

Product Identifier-Common Names: Magnesium Oxide (MgO)

Product Trade Names: QMAG 92, QMAG 95

Product Use: Industrial use only; Steel and Foundry Applications

Manufacturer of Product: AJF Inc.

P.O.Box 697

New Boston, MI 48164 Telephone: 734-753-4410

Fax: 734-753-4160

Emergency Contact- 734-753-4410 (8:00am – 4:30pm Eastern Time, Monday-Friday)

### **SECTION 2 – HAZARDS IDENTIFICATION**

2.1 Classification - Not Classified

2.2 GHS-US labeling - No Labeling applicable

2.3 Other hazards - No additional information available

2.4 Unknown - acute toxicity (GHS-US) - None

## **SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS**

NAME	Product Identifier % Composition		GHS-US classification	
Magnesium Oxide	CAS No. 1309-48-4	60-100%	Not Classified	
Sodium Hexametaphosphate	CAS No. 68915-31-1	1-5%	Not Classified	

## **SECTION 4 – FIRST AID MEASURES**

**Inhalation:** Move exposed person to fresh air. Get medical attention if symptoms occur.

Eye Contact: Flush immediately with clean water for 15 minutes. If irritation persists, seek medical attention.

**Skin Contact:** Wash with mild soap and water. If irritation develops, consult a physician.

Ingestion: Wash out mouth with water. Contact physician immediately. Do not induce vomiting unless instructed to do

so by physician.

## Principal symptoms and health effects both acute and delayed:

**Inhalation:** May cause respiratory irritation, sneezing, coughing, burning sensation in the throat or constriction of the

larynx, or difficulty breathing.

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Eye Contact: May cause redness, irritation or pain

Skin Contact: Prolonged contact with large amounts of this product may cause mechanical irritation. Dust may cause

irritation in skin folds or by contact in combination with tight clothing.

**Ingestion:** Rinse mouth. Do not induce vomiting.

Chronic Symptoms: Shortness of breath, wheezing, cough and sputum production. May cause cancer, silicosis, lung

disease, autoimmune disease, tuberculosis, and nephrotoxicity.

Indication of any immediate medical attention and special treatment: No Specific actions are required.

### **SECTION 5 - FIRE-FIGHTING MEASURES**

Extinguishing Media: Use fire extinguishing media appropriate for surrounding area

Fire Hazard: If heated to (> 1700° C), magnesium oxide fumes may be generated.

Advice for firefighters: No specific firefighting instructions are required Use normal individual personal protective

equipment and fight fire from a reasonable distance using normal precautions.

Product is NON-FLAMMABLE; NON-EXPLOSIVE and NON-REACTIVE

### **SECTION 6 – ACCIDENTAL RELEASE MEASURES**

**General:** Do not breathe dust. Avoid generating airborne dust. May collect the material using a vacuum

method.

Protective Equipment: Wear protective clothing as appropriate for the work environment, including gloves, and eye/face

protection as recommended in Section 8 – Exposure controls/personal protection.

**Environmental** Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters

**Precautions:** 

Methods for material Avoid dry sweeping or otherwise generating dust during clean-up. Use water spraying or vacuum

containment/clean up: cleaning systems to prevent airborne dust generation.

#### **SECTION 7 – HANDLING AND STORAGE**

Handling: Avoid airborne dust generation/keep to minimum. Provide appropriate exhaust ventilation at places where

dust is formed. Do not breathe dust. Avoid contact with eyes and skin. Avoid prolonged exposure. Wear

personal protective equipment. Wash thoroughly after handling. Avoid release to the environment.

Storage: Store in a cool dry place. Keep containers closed and store packaged products so as to prevent accidental

bursting.

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#### SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Hazardous Components Specific Chemical Identity:	CAS NO.	% (Optional)	OSHA PEL (TLV-TWA)	ACGIH TLV (TLV-TWA)
Magnesium Oxide as dust	1309-48-4	60-100	15 mg/m³ (total)	10 mg/m <sup>3</sup>
Sodium Hexametaphosphate	68915-31-1	1-5	n/a	n/a

**Exposure Controls**: Occupational exposure to nuisance dust (total and respirable) should be monitored at all times.

**Engineering Controls**: Minimize the generation of airborne dust. Use process controls, local exhaust ventilation, or other engineering controls to maintain airborne levels below the limit shown above Ensure adequate

ventilation, especially in confine areas.

**Personal Protective Equipment:** 

Respiratory Protection: Wear suitable respiratory equipment; use air-purifying respirator equipped with particulate filtering

cartridges.

Up to 100 MG/M3: any dust, mist or fume respirator; any air supplied respirator; or, self-contained breathing apparatus. Up to 250 MG/M3: any supplied air respirator operated in a continuous flow mode or any powered air purifying respirator with a dust/mist/fume filter. Up to 500 MG/M3: high efficiency particulate filter with full face piece; any powered air supplied respirator with a tight fitting face piece and a high efficiency particulate filter; any self-contained breathing apparatus with a full face piece; any supplied air respirator with a full face piece. Up to 7500 MG/M3: any air supplied respirator with full face piece and operated in a pressure demand or other positive pressure mode.

**Eye Protection**: Goggles are recommended where airborne dust is produced.

Hand and skin: Impermeable gloves are recommended in situations where abrasion from sand may occur. Wash

hands with soap and water after use.

Other: War protective clothing as appropriate for the work environment. Dusty clothing should be

laundered before it is reused. Do not take dust clothing home.

Do not eat, drink or smoke when using.

## **SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

Appearance:	Granular mixture, gray/brown color	Melting Point:	2827 (2797 – 2857) C <sup>0</sup>
Solubility in Water:	Insoluble in water	Boiling Point:	3600 C <sup>0</sup>
Specific Gravity (Water=1):	Not determined	Vapor Pressure:	Not Applicable
Odor:	None	Vapor Density:	Not Applicable



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## **SECTION 10 - STABILITY AND REACTIVITY**

**Reactivity** Product can react with concentrated acids, chlorine triflouride.

Stability: Material is stable under normal conditions

Conditions to avoid: None known

Incompatibility (materials to avoid): Product can react with concentrated acids, chlorine triflouride

**Hazardous Decomposition or By-**

products:

None

#### **SECTION 11 – TOXICOLOGICAL INFORMATION**

Hazardous IngredientsLD50LC50Magnesium Oxide3990 mg/kgNot ApplicableSodium HexametaphosphateNot ApplicableNot Applicable

# Name of Toxicologically Synergistic Products:

QRAM material is not flammable, combustible or explosive. It does not cause burns or severe skin or eye irritation. A single exposure will not result in serious adverse health effects.

**Route(s) of Entry:** Inhalation? - Yes Skin Contact? - Yes Ingestion? - Not anticipated entry.

#### Potential Adverse human health effects and symptoms:

Symptoms/injuries after inhalation: Inhalation my cause irritation, cough, shortness of breath

Symptoms/injuries after skin contact: Effects of skin contact may include skin irritation

Symptoms/injuries after eye contact: May cause eye irritation.

Symptoms/injuries after ingestion: Ingestion generally cause purging of the bowels. Swallowing large amounts may

cause bowel obstructon.

**Medical Conditions Generally Aggravated by Exposure:** The condition of individuals with lung disease (e.g., bronchitis, emphysema, chronic obstructive pulmonary disease) can be aggravated by exposure.

## **SECTION 12 - ECOLOGICAL INFORMATION**

**Toxicity** Not relevant

Persistance and degradability Not biodegradable

Bioaccumulative potential Not known to bioaccumulate

Mobility in soil Negligible



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## **SECTION 13 - DISPOSAL CONSIDERATIONS**

Waste Codes Not applicable

Disposal Instructions This product, in its present state, when discarded or disposed of, is not a

hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste.

## **SECTION 14 - TRANSPORT INFORMATION**

UN Number Not relevant
UN Proper Shipping Name Not relevant

Transport Hazard Class Not regulated as dangerous goods

Packing Group Not applicable Environmental Hazards Not relevant

Special Precautions for User No special precautions

#### **SECTION 15 – REGULATORY INFORMATION**

**US Federal Regulations** 

SARA 311/312 Classification: Immediate and delayed (acute) health hazard

SARA 313 – Supplier Notification: This notification must not be detached from this SDS and any copying of the SDS must include this notice, as required by 40CFR part 372; Magnesium

**Reporting** oxide is not subject to Form R reporting requirements.

The following components listed: Magnesium oxide fume

SARA 302 Extremely Hazardous Substance: None

Clean Air Act (CAA) Does not contain ozone depleting substances

TSCA Section 12(b) Export Notification: Not Regulated

**STATE REGULATIONS** 

Illinois Right To Know - Substance List

Massachusetts RTKRight To KnowNew Jersey Worker RTKRight To KnowPennsylvania RTKRight To KnowMinnesota RTKRight To Know

**Maine RTK** 

INTERNATIONAL REGULATIONS

Australia Inventory (ACIS)

All components are listed or exempted

Canada Inventory (DSL & NDSL)

All components are listed or exempted

Japan Inventory (ENCS)

China Inventory (IECSC)

Not determined

Not determined



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Europe (EINECS)
Korea Inventory (ECL)
New Zealand Inventory
Philippines Inventory (PICCS)
United States & Puerto Rico (TSCA)

All components are listed or exempted
All components are listed or exempted
Not determined
Not determined
All components are listed or exempted

### **SECTION 16 – OTHER INFORMATION**

**Data Sources:** 

**ACGIH 2000** 

Chemical Inspection & Regulation Service; accessed at: <a href="www.cirsreach.com/Inventory/Global\_Chemical">www.cirsreach.com/Inventory/Global\_Chemical</a> Inventories

Ind.Exposure & Control Techn. For OSHA Regulated Substances - MgO (fume), March, 1989, pp. 1181-1184,

NIOSH Occupational Health Guide for chemical substances – Vol. II, Sept. 1978
Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on
Classification, labelling and packaging of substances and mixtures, amending and replealing directives 67/548/EEC and 1999/45/EC and amending regulation (EC) No 1907/2006

RTECS, June 1998

TSCA Chemical Substance Inventory: <a href="https://www.epa.gov/oppt/existingchemicals/pubs/tscainvntory.howto.html">www.epa.gov/oppt/existingchemicals/pubs/tscainvntory.howto.html</a> US National Library of Medicine National Institutes of Health Haz-Map: <a href="https://www.hazmap.nlm.nih.gov">www.hazmap.nlm.nih.gov</a>

**HMIS ratings:** Health: 0

Flammability: 0 Physical Hazard: 0

NFPA ratings: Health: 0

Flammability: 0 Instability: 0

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