



A RESINTECH COMPANY

Safety Data Sheet

Product Names: AF-10-3232, AF-20-3232, AF-10-3232-BB, AF-20-3232-BB
Mixture of Magnesium Oxide Media and Calcium Carbonate

Effective March 2015

Section 1: Identification of mixture

- 1a Product Name – Corosex, FloMag PWT 6 x 16
- 1b Common Name – Magnesium Oxide
- 1c Intended use – For use in potable water treatment (NSF standard 60 for drinking Water Chemicals)
- 1d Manufacturer – Martin Marietta Magnesia Specialties, LLC
1800 Eastlake Road
Mainstee, MI 48660
Ph: (410) 780-5500

- 1a Product Name – Calcite, XO White
- 1b Common Name – Calcium Carbonate
- 1c Intended use – Ground Limestone (calcium carbonate) based additives
- 1d Manufacturer - Imerys
Pigments & Additives Group
100 Mansell Court East, Suite 300
Roswell, GA 30076
Ph: (770) 594-0660
Fax: (770) 645-3384

Manufacturer Address Aries FilterWorks
117 Jackson Road
Berlin, NJ 08009

Phone 856-626-1550
Email info@ariesfilterworks.com

GHS Classification

Physical and Chemical Hazards:	Not Classified
Human Health:	Quartz: STOT RE 1 – H372.
Environment:	Not Classified

GHS Pictogram



Signal Word

Danger

Hazard Statement

H372: Causes damage to lungs through prolonged or repeated exposure via inhalation.

Precautionary Statements

P260: Do not breathe dust

P285: In case of inadequate ventilation wear respiratory protection

P501: Dispose of contents/containers in accordance with local regulations.

Long term exposure to crystalline silica can cause lung injury (silicosis) IARC and NTP have determined that crystalline silica inhaled from occupational sources can cause cancer in humans. Risk of injury is dependent on the duration and level of exposure.

Section 3: Composition/ Information on Ingredients

3b Ingredients

Ingredient	Wt % (Approx)	Case No	OSHA PEL	ACGIH TLV*
Ground Limestone	> 99%	1317-65-3	5 mg/m ³ Resp 15 mg/ m ³ Total	2 mg/m ³ Resp
Crystalline Silica, Quartz	0.1% - 0.4%	14808-60-7	0.1 mg/m ³ Resp.	0.025 mg/m ³ Resp.
Water	< 1%			
Magnesium Oxide	98 %	1309-48-4		
Oxides of Silica, Iron, Aluminum and Calcium	2%	Mixture		

Section 4: First Aid Measures

- 4a Inhalation
Remove to fresh air immediately. Do not permit exposed person to remain in dusty environment without adequate respiratory protection.
- 4b Skin
Remove from source of exposure. Remove contaminated clothing and wash affected area thoroughly with a mild soap and water. Wash contaminated clothing before reusing
- 4c Eye contact
Do not rub eyes. Wash eyes under slowly running water for at least fifteen minutes, making sure eyes are held wide open and moved slowly in every direction. Ensure no solid particles remain in creases of eyelids. If so, continue to wash. If irritation persists, consult an ophthalmologist
- 4d Ingestion
Follow good industrial hygiene practices. If ingested, do not induce vomiting. If conscious, drink two glasses of water. Seek medical aid if necessary.

Section 5: Fire Fighting Measures

- 5a Flammability
Not Flammable
- 5b Extinguishing media
Water, CO₂, Dry Chemical or foam
- 5c Firefighting Procedures
Follow general firefighting procedures indicated in the work place.
- 5d Protective Equipment
MSHA/NIOSH approved self-contained breathing gear, full protective clothing.
- 5e Combustion Products
No special fire or explosive hazard
- 5f Unusual Hazards
No Special fire or explosive hazards

Section 6: Accidental Release Measures

- 6a Personal Precautions Keep people away, spilled resin can be a slipping hazard, wear gloves and safety glasses to minimize skin or eye contact.
- 6b Incompatible Chemicals Acids should be avoided. Heat will be generated with Magnesium Oxide. Carbon Dioxide will be released with Calcium Carbonate. Magnesium Oxide: Chlorine Trifluoride reacts violently, producing flame; Phosphorus Pentachloride – incandescences brilliantly
- 6c Environmental Precautions Keep out of public sewers and waterways.
- 6d Containment Materials Use plastic or paper containers, unlined metal containers not recommended.
- 6e Methods of Clean-up Sweep up material and transfer to containers

Section 7: Handling and Storage

- 7a Handling Avoid prolonged skin contact
- 7b Storage Store in a cool dry place
- 7c TSCA considerations
Calcium Carbonate – Product is listed in Initial Inventory, Vol. 1, Appendix A, CAS 1317-65-3.
Magnesium Oxide: Product is listed in Initial Inventory List: CAS 1309-48-4

Section 8: Exposure Controls/Personal Protection

8a Control Parameters

Magnesium Oxide (1309-48-4)		
USA ACGIH	ACIGH TWA (mg/m ³)	10 mg/m ³
USA ACGIH	Remark (ACIGH)	(inhalable fraction)
USA OSHA	OSHA PEL (TWA) (mg/m ³)	15 mg/m ³
Component	Standard	TWA (8-hrs)
Limestone	PEL	15 mg/m ³
	ACIGH	2 mg/m ³
Quartz	PEL	0.05 mg/m ³
	ACIGH	0.025 mg/m ³
Component		IDHL
Quartz		25 mg/m ³

8b Exposure Controls

Appropriate engineering controls

Avoid dispersal of dust in the air (i.e. clearing dust surfaces with compressed air). Provide local exhaust ventilation of closed transfer systems to minimize exposures.

Hand protection

Wear protective gloves: dust impervious gloves

Eye protection

Chemical goggles or safety glasses.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment; Use air-purifying respirator equipped with particulate filtering cartridges.

Other information

When using do not eat or smoke.

Section 9: Physical and Chemical Properties

Calcium Carbonate

Physical State:	Solid
Appearance & Odor:	Odorless, white
pH (Aqueous Suspension)	9-10
Specific Gravity:	~2.7 (water = 1)
Melting Point	825 °C
% Solubility in Water:	1.4 mg/100 ml @ 25 °C
Vapor Pressure (MM HG):	Not Applicable
Evaporation Rate (water = 1):	Not Applicable
Boiling Point:	Not Applicable
Freezing Point:	Not Applicable
VOC:	None
Vapor Density:	Not Applicable

Magnesium Oxide:

Physical State:	Solid
Appearance & Odor:	Odorless, white
pH (Aqueous Suspension)	~10 (saturated solution)
Density:	3.5 to 3.6
% Solubility in Water:	slightly soluble in water
Vapor Pressure (MM HG):	~ Zero mm Hg at 20 °C
Evaporation Rate (water = 1):	Not Applicable
Decomposition Temperature:	> 1700 °C
Melting Point	2800 °C
Boiling Point:	3582 °C @ 760 mm Hg
Freezing Point:	Not Applicable
VOC:	None
Vapor Density:	Not Applicable

Section 10: Stability and Reactivity

10a Stability	Stable under ambient temperatures and pressures.
10b Conditions to Avoid	Magnesium oxide: Exposure to water may cause this product to very slowly hydrate, during which heat may be generated (exothermic reaction).
10c Hazardous by-products	Calcium carbonate will react with acids to produce carbon dioxide gases.
10d Incompatible materials	Acids should be avoided. Heat will be generated with Magnesium Oxide. Carbon Dioxide will be released with Calcium Carbonate. Magnesium Oxide: Chlorine Trifluoride reacts violently. Producing flame; Phosphorus Pentachloride – incandescences brilliantly
10e Hazardous Polymerization	Material does not polymerize

Section 11: Toxicological Information

11a Information on toxicological effects

Acute toxicity: Not classified (Based on available data the classification criteria are not met)

Magnesium oxide (1309-48-4)	
LD50 oral rat	3990 mg/kg
ATE (oral)	3990.000 mg/kg body weight

Skin corrosion/irritation: Not classified (Based on available data the classification criteria are not met)

Serious eye damage/irritation: Not classified (Based on available data the classification criteria are not met)

Respiratory or skin sensitization: Not classified (Based on available data the classification criteria are not met)

Germ cell mutagenicity: Not classified (Based on available data the classification criteria are not met)

Carcinogenicity: Not classified (Based on available data the classification criteria are not met)

Magnesium oxide (1309-48-4)	
IARC group	Not listed in Carcinogenicity class
National Toxicology Program (NTP) Status	Not listed in Carcinogenicity class

Reproductive toxicity: Not classified (Based on available data the classification criteria are not met)

Specific target organ toxicity (single exposure): Not classified (Based on available data the classification criteria are not met)

Specific target organ toxicity (repeated exposure): Not classified (Based on available data the classification criteria are not met)

Aspiration hazard: Not classified (Based on available data the classification criteria are not met)

Potential Adverse human health effects and symptoms

Symptoms/injuries after inhalation: Inhalation may 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 causes purging of bowels. Swallowing large amounts may cause bowel obstruction.

Likely routes of exposure: dermal, inhalation

Section 12: Ecological information

12a Eco toxicity	No additional information available
12b Mobility	No additional information available
12c Biodegradability	Not established
12d Bioaccumulation	Not established
12e Other adverse effects	Avoid release to the environment.

Section 13: Disposal Considerations

13a Disposal methods	Take all necessary measures to avoid accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems. Dispose in a safe manner in accordance with local/national regulations. Avoid release to the environment.
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Section 14: Transportation Information

14a Transportation Class	Considered non hazardous
14b TDG	Not considered a Dangerous Good
14c IATA	Not considered a Dangerous Good
14d DOT (49 CFR 172.101)	Considered non hazardous
14e IMDG	Not considered a Dangerous Good

Section 15: Regulatory Information

15a OSHA Hazard Communication Standard. 29 CFR 1910.1200: Material is considered hazardous See section 2.	
15b CERCLA:	Material is not reportable under CERCLA; local Requirements may vary.
15c SARA Title III:	311/312 Hazard categories – Immediate and Delayed Health.
15d RCRA:	Material is not defined as a hazardous waste per 40 CFR 261.
15e California Proposition 65:	This product contains chemicals known to the state of California to cause cancer.
15f EU REACH Regulations:	Exempted in accordance with Annex v.7
15g TSCA:	Product is listed in initial Inventory, Vol 1, Appendix A, CAS No 1317-65-3.

Section 16: Other Information

The information provided in this safety data sheet is presented in good faith and believed to be accurate as of the effective data shown above. However, no warranty or guarantee of accuracy, express or implied is given. Regulatory requirements are subject to change and may differ from one location to another. It is the buyer's responsibility to ensure that their activities comply with federal, state, and local laws.

16 Date of Revision 25 May 2018