



Section 1: IDENTIFICATION

1.1 Product Identifier

Product name: Magnesium Bath Flakes.
Genuine Zechstein Magnesium Chloride Flakes.
Magnesium Chloride Hexahydrate Flake.

Product code: AMF-1, AMF-150, AMF-4, AMF-8, AMFB, BMF-2200, BMF-35

Description: Personal care / cosmetic product.

1.2 Product Use

Recommended use: For external use only.

Restrictions on use: This is a personal care or cosmetic product that is safe for consumers and other users under normal and reasonably foreseeable use. Cosmetics and consumer products, specifically defined by regulations around the world, are exempt from the requirement of an SDS for the consumer. While this material is not considered hazardous, this SDS contains valuable information critical to the safe handling and proper use of the product for industrial workplace conditions as well as unusual and unintended exposures such as large spills. This SDS should be retained and available for employees and other users of this product. For specific intended-use guidance, please refer to the information provided on the product package.

1.3 Supplier Information

Name: Shay and Company LLC

Address: 10639 SE Fuller Rd
Milwaukie, OR 97222
USA

Phone number: +1 503-653-1155

Emergency phone number: +1 503-653-1155

Section 2: HAZARD(S) IDENTIFICATION

2.1 Classification of the substance or mixture

GHS-US Classification: Not classified as hazardous

2.2 Signal word

Not required

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2.3 Hazard statement

Non-hazardous material in accordance with international standards for workplace safety

2.4 Precautionary statements

Cosmetic product. Avoid contact with eyes. If contact occurs, rinse immediately with clean water.

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Mixtures

Chemical Name	Common name and synonyms	CAS Number	Concentration
Magnesium chloride hexahydrate (MgCl ₂ ·6H ₂ O)	Not applicable	7791-18-6	100%

Section 4: FIRST-AID MEASURES

4.1 First-aid instructions by relevant routes of exposure after,

Inhalation:	Unlikely route of exposure as the product does not contain volatile substances. IF INHALED: Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.
Skin contact:	Rinse with water.
Eye contact:	Rinse immediately with plenty of water. Get medical attention promptly if symptoms occur after washing.
Ingestion:	Do not induce vomiting. Rinse mouth. Get medical attention if symptoms occur.

4.2 Most important acute and delayed symptoms and effects

Not expected to present a significant hazard under anticipated conditions of normal use.

4.3 Recommendations for immediate medical care and special treatment, if necessary

Obtain medical assistance.

Section 5: FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media

Magnesium chloride is not combustible. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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5.2 Unsuitable extinguishing media

None known.

5.3 Special hazards arising from the chemical

Formation of toxic gases is possible during heating or fire. Above 160°C magnesium chloride decomposes in chlorine and water. Chlorine gases are toxic.

5.4 Special protective equipment and precautions for fire-fighters

During all firefighting activities, wear appropriate protective equipment, including self-contained breathing apparatus.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment, and emergency procedures

For non-emergency personnel:	Avoid contact with eyes. No special protective clothing required.
For emergency responders:	Avoid contact with eyes. Gloves are recommended.

6.2 Environmental precautions

Small spillage can be washed away with water. For larger spillage see Section 13.

6.3 Clean-up procedure

Contain spillage, and then collect with noncombustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

Section 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

No special handling advice required.

7.2 Conditions for safe storage, including any incompatibilities

Keep out of reach of children. Keep container tightly closed. Store in suitable labeled containers.

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Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Exposure limits: Contains no substances with occupational exposure limit values.

8.2 Appropriate engineering controls

Due to the low degree of health hazard anticipated in handling or use, no special precautions are required.

8.3 Recommendations for personal protective measures / equipment

Respiratory protection: Not applicable.
Hand protection: Protective gloves are recommended.
Eye protection: Use safety glasses.
Skin and body protection: Long sleeves and laboratory coat are recommended.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance (physical state, color, etc.): Solid crystalline flakes
Odor: Odorless
Vapor pressure: No data available.
Odor threshold: No data available.
Vapor density: No data available.
pH: 8.5 (aqueous solution 10%)
Relative density: 1.56 g/cm³
Melting point/freezing point: Melting point: 117 °C
Solubility(ies) : Solubility in water: 167 g/100 mL (20 °C).
Solubility in ethanol: 7.4 g/100 mL (30 °C).
Slightly soluble in acetone, pyridine.
Initial boiling point and boiling range: Not determined
Flash point: Boils without flashing.
Evaporation rate: No data available.
Flammability (solid, gas) : Not combustible.
Partition coefficient: n-octanol/water: No data available.
Auto-ignition temperature: Not combustible.
Decomposition temperature: From 300 °C (572 °F)

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Viscosity: No data available.
Upper/lower flammability or explosive limits: Not applicable. Does not sustain combustion.

9.2 Other information

None.

Section 10: STABILITY AND REACTIVITY

10.1 Reactivity

None.

10.2 Chemical stability

Product is stable under normal circumstances. Hygroscopic.

10.3 Possibility of hazardous reactions

Not applicable.

10.4 Conditions to avoid

None known.

10.5 Incompatible materials

Avoid incompatible materials, as follows, oxidizing agents, strong acids, or bases. Corrosion can occur when in contact with metals.

10.6 Hazardous decomposition products

Above 160 °C magnesium chloride decomposes in chlorine and water. Chlorine gases are toxic.

Section 11: TOXICOLOGICAL INFORMATION

11.1 Likely routes of exposure

Inhalation: Not established.
Ingestion: Not established.
Skin: May cause skin irritation.
Eye Contact: Irritating to eyes.

11.2 Short- and long-term exposure effects

Delayed: Not established.

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Immediate: May cause skin or eye irritation.
Chronic: Not established.

11.3 Other Toxicological Information

Numerical measures of toxicity:

No data available.

Symptoms associated with exposure:

See sections 10.1 and 10.2.

Mention of the National Toxicology Program (NTP) Report on Carcinogens:

Not classified as a carcinogen.

Mention as a potential carcinogen in the International Agency for Research on Cancer (IARC)

Monographs:

Not classified as a carcinogen.

Mention as a potential carcinogen by OSHA:

Not classified as a carcinogen.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity: Readily degradable in the environment.
Biodegradability: No data available.
Bioaccumulation: No data available.
Other adverse effects: No data available.

Section 13: DISPOSAL CONSIDERATION

Appropriate disposal methods to employ:

Federal, State, and Local laws governing disposal of materials can differ. Ensure compliance with proper authorities before disposal.

Physical and chemical properties that may affect disposal activities:

Not applicable.

Special precautions for landfills or incineration activities:

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Section 14: TRANSPORT INFORMATION

UN number:	Not applicable.
UN shipping name:	Not applicable.
Transport hazard class(es):	Not applicable.
Packing group number:	Not applicable.
Environmental hazards:	Not applicable.
Transport in bulk:	Not applicable.
Additional (special) precautions:	Not applicable.

Section 15: REGULATORY INFORMATION

15.1 WHMIS Regulations (Canadian)

This is not a controlled product under WHMIS regulations.

15.2 SARA Hazardous Category

This product does not meet any hazardous category.

15.3 TOXIC Substance Control Act (TSCA)

All ingredients are on the TSCA inventory or are not required to be listed on the TSCA inventory.

15.4 REACH (EU) SVHC (Substance of Very High Concern)

This product does not contain any substances on the SVHC list of chemicals.

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Section 16: OTHER INFORMATION

16.1 Revision History Log

Status	Version	Effective Date	Description	Reviewed by
Baseline	0	N/A	Baseline document.	JR
Revision	1	06-Mar-2019	Document updated to comply with 29 CFR 1910.1200 Appendix D	A. Stewart
Revision	2	08-Aug-2019	<ul style="list-style-type: none">On the product name field, Magnesium Chloride Flake replaced by Magnesium Chloride Hexahydrate Flake.Added AMFB to 1.1's product code.Updated Section 9.1 information: (i) Relative density changed from 1.569 to 1.59, (ii) Retain melting point in Celsius degree only, and (iii) Initial boiling point and boiling range changed to not determined	A. Stewart

16.2 Disclaimer

All chemical products may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the product subject of this document, as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned on this SDS. The physical properties reported in this SDS are obtained from the publicly available literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, marketability, or fitness of the goods for a particular purpose. Shay and Company assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright, or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While the SDS is based on technical data judged to be reliable, Shay and Company assumes no responsibility for the completeness or accuracy of the information contained here.

End of this Safety Data Sheet

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Certified by,

A. Stewart

Aug. 8, 2019