Safety Data Sheet MF-2



Revision Date: 6/1/15

Prepared according to Global Harmonized System (GHS) standards

SECTION 1

CHEMICAL PRODUCT IDENTIFICATION

Mass Finishing 1060 Commerce Blvd Howard Lake, MN 55349 Tel: 320-543-3355

Product Trade Name: MF-2

CAS Number: N/A
Synonyms/Other: N/A
Part Number(s): N/A

Restrictions on Use: Tumbling Media

Not Determined

Created Date: 6/1/2015 **Preparation/Revision Date:** 6/1/2015

Emergency Phone Number: 1-800-424-9300 (CHEMTREC)

SDS CODE: MF-2

SECTION 2

HAZARD IDENTIFICATION

Appearance: Granulated Solid

Odor: Mild

Classification: Skin corrosion / irritation category 3

Eye damage / irritation category 2 Acute Toxicity - inhale category 4

Target Organs: Not applicable.

Pictogram(s):

Response:

 $\langle ! \rangle$

Signal Word: WARNING

Hazard Statement: H316 - Causes mild skin irritation

H319 - Causes serious eye irritation

H332 - Harmful if inhaled

Other Hazards: Not determined.

Prevention: P261 - Avoid breathing dust

P264 - Wash hands/skin thoroughly after handling P271 - Use only outdoors or in a well-ventilated area

P280 - Wear protective gloves/protective clothing/eye protection/face protection P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position

comfortable for breathing

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses if present and easy to do – continue rinsing P332+P313 - If skin irritation occurs: Get medical advice/attention P337+P313 - If eye irritation persists get medical advice/attention P312 - Call a POISON CENTER or doctor/physician if you feel unwell

Storage Procedures: None required.

Disposal: None required.

Other: See section 11 for complete health hazard information.



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SECTION 3

COMPOSITION OF INGREDIENTS

| Component | CAS Number | Percentage (by weight) |
|-------------------|-------------|------------------------|
| Granular Corn Cob | None Listed | 85-95% |
| Aluminum Oxide | 1344-28-1 | 3.0-10% |

The balance of components do not contribute to the overall classification of the fluid, according to the GHS Standard.

SECTION 4 FIRST AID MEASURES

Eye Contact: Avoid direct contact. Wear chemical protective gloves, if necessary. Remove source of

exposure or move person to fresh air. Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open. Remove contact lenses, if present and easy to do. Take care not to rinse contaminated water into the unaffected eye or onto the face. If eye irritation persists: Get medical advice or attention.

Skin Contact: Avoid direct contact. Wear chemical protective clothing, if necessary. Wash skin with

lukewarm, gently flowing water and mild soap until product is removed. Call a doctor if

you feel unwell. If skin irritation or rash occurs: Get medical advice/attention.

Inhalation: Take precautions to ensure your own safety (e.g. wear appropriate protective equipment).

Remove source of exposure or move person to fresh air and keep comfortable for

breathing. Call a doctor if you feel unwell.

Ingestion: If you feel unwell or concerned: Get medical advice/attention. Rinse mouth. Do NOT

induce vomiting. If vomiting occurs naturally, lie on your side, in the recovery position.

Other: No additional information

SECTION 5

FIRE FIGHTING MEASURES

Flash Point: >340°F

Flammable limits: Not applicable. Extinguishing media: Not applicable.

Special firefighting procedures: Evacuate area and fight fire from a safe distance. If leak or spill has not ignited, ventilate

area and use water spray to disperse gas or vapor and to protect personnel attempting to stop a leak. Use water spray to cool adjacent structures and to protect personnel. Shut off source of flow if possible (safely). Stay away from storage tank ends. Withdraw immediately in case of rising sound from venting safety device or any discoloration of storage tank due to fire. Fire fighters must wear MSHA/NIOSH approved positive pressure breathing apparatus (SCBA) with full face mask and full protective equipment.

Unusual fire & explosion

hazards:

High temperatures may create heavy flammable vapors that may settle along ground

level and low spots to create an invisible fire hazard.

Byproducts of combustion: Fires involving this product may release oxides of carbon, nitrogen and sulfur; reactive

hydrocarbons and irritating vapors.

Autoignition temperature: Not determined.

Explosion data: Not determined. Care should always be exercised in dust/mist areas.

Other: Dispose of fire debris and contaminated extinguishing water in accordance with official

regulations.



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SECTION 6

ACCIDENTAL RELEASE MEASURES

Spill control procedures (land): Immediately turn off or isolate any source of ignition (pilot lights, electrical equipment, flames, heaters, etc.). Evacuate area and ventilate. Personnel wearing proper protective equipment should contain spill immediately with inert materials (sand, earth, chemical spill pads of cotton) by forming dikes. Dikes should be placed to contain spill in a manner that will prevent material from entering sewers and waterways. Large spill, once contained, may be picked up using explosion proof, non-sparking vacuum pumps, shovels, or buckets, and disposed of in suitable containers for disposal. Clean up residue with water. If a large spill occurs notify appropriate authorities. In case of road spill or accident contact Chem-Trec (800-424-9300).

Spill control procedures

(water):

If a large spill occurs notify appropriate authorities (normally the National Response

Center or Coast Guard at 800-424-8802).

Do not empty into drains. All disposals must comply with federal, state, and local Waste disposal method:

> regulations. The material, if spilled or discarded may be a regulated waste. Refer to state and local regulations. Department of Transportation (DOT) regulations may apply

for transporting this material when spilled. See Section 14.

Other: CAUTION - If spilled material is cleaned up using a regulated solvent, the resulting waste

mixture will be regulated.

SECTION 7

HANDLING AND STORAGE

Keep containers closed when not in use. Do not transfer to unmarked containers. Empty Handling procedures:

> containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld, or use for any other purposes. Return drums to reclamation

centers for proper cleaning and reuse.

Handling temperatures should not exceed 60°C (140°F) to min imize danger of burns. Open containers carefully in a well ventilated area or use appropriate respiratory

protection. Wash thoroughly after handling.

Storage procedures: Store containers away from heat, sparks, open flame, or oxidizing materials. Extended

storage at excessive temperatures may produce odorous and toxic fumes from product

decomposition.

No additional information. Additional information:

SECTION 8

EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits/standards for materials that can be formed when handling this product:

| Component | CAS Number | OSHA PEL | ACGIH TLV |
|-------------------|-------------|----------------------|-----------|
| Granular Corn Cob | None Listed | 15 mg/m³ | 10 mg/m³ |
| Aluminum Oxide | 1344-28-1 | 10 mg/m ³ | 5 mg/m³ |

NOTE: Limits/standards shown for guidance only. Follow applicable regulations.

No biological limits allocated.

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Personal protection: Applicable mainly to persons in repeated contact situations such as packaging of

product, service/maintenance, and cleanup/spill control personnel.

Respiratory protection: None required if ventilation is adequate. Otherwise a respiratory protection program

meeting OSHA 1910.134 and ANSI Z88.2 requirements must be followed. Where

Eye protection: Eye protection is strongly recommended. Wear safety glasses with side shields or

vented/splash proof goggles (ANSI Z87.1 or approved equivalent).

Hand protection: Impervious, chemically resistant gloves such as neoprene or nitrile rubber to avoid skin

sensitization and absorption.

Other protection: Use of an apron and overboots of chemically impervious materials such as neoprene or

nitrile rubber is recommended based on level of activity and exposure. If handling hot material use insulated protective equipment. Launder soiled clothes. Properly dispose of contaminated leather articles and other materials which cannot be decontaminated.

Local control measures: Use adequate ventilation when working with material in an enclosed area. Mechanical

methods such as fume hoods or area fans may be used to reduce localized vapor/mist areas. If vapor or mist is generated when the material handled, adequate ventilation in

Other: Consumption of food and drink should be avoided in work areas where product is

SECTION 9

PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Granulated Solid

Odor: Mild

Odor threshold:

pH:

Not determined.

Melting/Freezing point:

Initial boiling point:

Boiling range:

Not determined.

Not determined.

Not determined.

Flash point: >340°F

Evaporation rate: Not determined. Flammability: Non-flammable **Upper flammable limit:** Non-flammable Lower flammable limit: Non-flammable Vapor pressure: Not determined. Vapor density: Not determined. Relative density: <1 (Water = 1) Not determined. Solubility: **Partition Coefficient:** Not determined. Not determined. Auto-ignition temperature: **Decomposition temperature:** Not determined. Viscosity: Not determined. Other Not applicable.



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SECTION 10

STABILITY AND REACTIVITY

Reactivity

Chemical stability: Material is chemically stable at room temperatures and pressure.

Hazardous polymerization: Will not occur.

Conditions to avoid: Avoid high temperatures and product contamination. **Incompatibility with other** Avoid contact with acids and strong oxidizing materials.

materials:

Decomposition products: Smoke, carbon monoxide, carbon dioxide, and other aldehydes of incomplete

Other: Not applicable.

SECTION 11

TOXICOLOGICAL INFORMATION

Acute toxicity (LD50) *See note at the bottom of the section

 Oral:
 >5000 mg/kg

 Dermal:
 >5000 mg/kg

 Inhalation:
 >20.0 mg/l

Skin irritation:Causes mild skin irritationEye irritation:Causes serious eye irritation

Dermal sensitization: Not expected to have a sensitizing effect. **Respiratory sensitization:** Not expected to have a sensitizing effect.

Aspiration Hazard: Not applicable

Chronic Toxicity

Mutagenicity: Not suspected of causing genetic defects

Carcinogenicity: Not suspected of causing cancer.

Reproductive toxicity: Not expected to have adverse effects on reproduction.

STOT-single exposure: Not expected to have adverse effects.

STOT-repeated exposure: Not expected to have long term adverse effects.

Other: *All data in this section is based off calculations from Part 3 of the Globally Harmonized

SECTION 12

ECOLOGICAL INFORMATION

Environmental toxicity

Fish: > 100 mg/l.
Invertebrates: > 100 mg/l.
Aquatic plants: > 100 mg/l.
Microorganism: > 100 mg/l.

Persistence/Degradability: This product is expected to be readily biodegradable.

Bioaccumulation: Not determined.

Mobility in soil: Not determined.

Other: All classifications are based on calculations in Part 4 of the Globally Harmonized System



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SECTION 13

DISPOSAL CONSIDERATIONS

Waste disposal: This product unadulterated by other materials can be classified as a non-hazardous

waste. Depending on use, used product may be regulated. Dispose of in a licensed facility. Do not discharge product in to sewer system. Dispose of containers by crushing or puncturing, so as to prevent unauthorized use of used containers. Waste

management should be in full compliance with federal, state, and local laws.

Other The transportation, storage, treatment and disposal of RCRA waste material must be

SECTION 14 TRANSPORT INFORMATION

Land Transport (DOT): Not Regulated **Proper Shipping Name:** Not Regulated Land Transport (TDG): Not determined. **Proper Shipping Name:** Not applicable. Sea Transport (IMDG): Not determined. Not applicable. **Proper Shipping Name:** Not determined. Air Transport (IATA): **Proper Shipping Name:** Not applicable. Other: Not applicable.

SECTION 15

REGULATORY INFORMATION

Federal Regulation

Clean water act/oil: No components of this product are listed.

TSCA: All components of this material are listed in the U.S. TSCA Inventory.

Other TSCA: Not applicable.

SARA title III: Section 302/304 extremely hazardous substances:

None.

Section 311, 312 hazard categorization:

Acute (immediate health effects): YES
Chronic (delayed health effects): NO
Fire (hazard): NO
Reactivity (hazard): NO
Pressure (sudden release hazard): NO

Section 313 toxic chemicals:

No components present are at or greater than the de minimis (minimum reportable)

concentration requirements for reporting.

CERCLA: For stationary/moving sources – reportable quantity (due to):

State Regulations

Right-to-know Not determined.

Other: A release of this product, as supplied, is exempt from reporting under the Comprehensive



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| SECTION 16 | OTHER | | | |
|-------------------|----------|-----------|--------------|--|
| | NFPA 704 | NPCA-HMIS | KEY | |
| HEALTH: | 1 | 1 | 0 = Minimal | |
| FIRE: | 0 | 0 | 1 = Slight | |
| REACTIVITY: | 0 | 0 | 2 = Moderate | |
| SPECIFIC HAZARD: | None | N/A | 3 = Serious | |
| PROTECTION INDEX: | N/A | В | 4 = Severe | |

Version:

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Revisions / Comments: None.