

Prepared according to Global Harmonized System (GHS) standards

SECTION 1


CHEMICAL PRODUCT IDENTIFICATION

Mass Finishing Inc.
1060 Commerce Blvd
Howard Lake, MN 55349
Tel: 320-543-3222

Product Trade Name: **MF-3FF**
CAS Number: Mixture
Part Number(s): 5501-30002-5
Recommended Use: Tumbling Media
Restrictions on Use: Not Determined
Created Date: 7/16/2018
Preparation/Revision Date: 7/16/2018
Emergency Phone Number: 1-800-424-9300 (CHEMTREC)

SECTION 2

HAZARD IDENTIFICATION

Appearance: Granulated Solid
Odor: Odorless
Classification: Skin corrosion / irritation category 3
Eye damage / irritation category 2
Single target organ toxicant – single exposure category 3
Target Organs: Skin, Eyes, Lungs
Pictogram(s): 
Signal Word: WARNING
Hazard Statement: H316 - Causes mild skin irritation
H319 - Causes serious eye irritation
H335 - May cause respiratory irritation
H336 - May cause drowsiness or dizziness
Other Hazards: Not determined.
Prevention: P233 - Keep container tightly closed
P264 - Was affected area thoroughly after handling
P280 - Wear protective gloves/protective clothing/eye protection/face protection
Response: P304+P341 - IF INHALED: If breathing is difficult, 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
Storage Procedures: None required.
Disposal: None required.
Other: See section 11 for complete health hazard information.

SECTION 3 COMPOSITION OF INGREDIENTS

Component	CAS Number	Percentage (by weight)
Corn Cob Fractions	N/A	< 95%

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: Rinse mouth. Call a doctor if you feel unwell.

Other: No additional information

SECTION 5 FIRE FIGHTING MEASURES

Flash Point: Not determined.

Flammable limits: Not applicable.

Extinguishing media: Not applicable.

Special firefighting procedures: General directions - product will not burn without driving water from material first. 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.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Spill control procedures: Collect spilled product and store to re-use. Contaminated product and or environmental media should be recovered and disposed of properly.

Environmental Precautions: Prevent spilled material from entering storm drains or bodies of water.

Protective Equipment See Section 8 of this SDS.

SECTION 7 HANDLING AND STORAGE

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

Additional information: No 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
Corn Cob Fractions	N/A	15mg/m3 (total) 5mg/m3 (respirable)	10mg/m3 (inhalable) 3mg/m3 (respirable)

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

No biological limits allocated.

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 misting may occur, wear an MSHA/NIOSH approved (or equivalent) half-mask form dust/mist air purifying respirator.

Eye protection: Safety glasses with side shields, goggles, or face shield recommended

Hand protection: Long sleeve, cotton gloves recommended.

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.

Other: Consumption of food and drink should be avoided in work areas where product is present. Always wash hands and face with soap and water before eating, drinking or smoking.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Granulated Solid

Odor: Odorless

Odor threshold: Not determined.

pH: Not determined.

Melting/Freezing point: Not determined.

Initial boiling point: Not determined.

Boiling range: Not determined.

Flash point: Not determined.

Evaporation rate: Not determined.

Flammability: Not determined.

Upper flammable limit:	Not determined.
Lower flammable limit:	Not determined.
Vapor pressure:	Not determined.
Vapor density:	Not determined.
Relative density:	Not determined.
Solubility:	Miscible in water, negligible in most petroleum solvents.
Partition Coefficient:	Not determined.
Auto-ignition temperature:	Not determined.
Decomposition temperature:	Not determined.
Viscosity:	Not determined.
Other	Not applicable.

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 materials:	Avoid contact with acids and strong oxidizing materials.
Decomposition products:	Smoke, carbon monoxide, carbon dioxide, and other aldehydes of incomplete combustion. Oxides of carbon, nitrogen, and sulfur; reactive hydrocarbons and irritating vapors.
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 irritation
Eye 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:	May cause respiratory irritation, drowsiness or dizziness.
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 System of Classification and Labelling of Chemicals (GHS) utilizing information from the constituent components.

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 not 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 of Classification and Labelling of Chemicals (GHS) utilizing information from the constituent components.

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 conducted in compliance with 40 CFR 262, 263, 264, 268 and 270. Chemical additions, processing or otherwise altering this material may make the waste management information presented in this SDS incomplete, inaccurate or otherwise inappropriate.

SECTION 14

TRANSPORT INFORMATION

Land Transport (DOT): Not regulated for land transport.
Proper Shipping Name: Not applicable.
Land Transport (TDG): Not regulated for land transport.
Proper Shipping Name: Not applicable.
Sea Transport (IMDG): Not regulated for sea transport.
Proper Shipping Name: Not applicable.
Air Transport (IATA): Not regulated for air transport.
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): Not hazardous due to the petroleum exclusion.

State Regulations

Right-to-know

Not determined.

Other:

A release of this product, as supplied, is exempt from reporting under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA). However, releases may be reportable to the Nation Response Center under the Clean Water Act, 33 U.S.C. 1321(b)(3) and (5) - see head of Section 15. Failure to report may result in substantial civil and criminal penalties.

Recommend contacting the local authorities in the event of any type of spill to determine local reporting requirements and also to aid in the cleanup.

SECTION 16 OTHER INFORMATION

	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	B	4 = Severe

Version: I

INFORMATION PROVIDED IN THIS SDS IS CONSIDERED ACCURATE AND RELIABLE BASED ON INFORMATION ISSUED FROM INTERNAL AND OUTSIDE SOURCES TO THE BEST OF THE AUTHORS' KNOWLEDGE. HOWEVER, THE AUTHOR'S MAKE NO REPRESENTATIONS, GUARANTEES OR WARRANTIES, EXPRESSED OR IMPLIED, OF MERCHANTABILITY OR FITNESS FOR THE PARTICULAR PURPOSE, REGARDING THE ACCURACY OF SUCH INFORMATION OR THE RESULT TO BE OBTAINED FROM THE USE THEREOF, OR AS TO THE SUFFICIENCY OF THE INFORMATION HEREIN PRESENTED. THE AUTHORS ASSUME NO RESPONSIBILITY FOR INJURY TO RECIPIENT OR TO THIRD PERSONS OR FOR ANY DAMAGE TO ANY PROPERTY AND RECIPIENT ASSUMES ALL SUCH RISKS.

Revisions / Comments: None. 071618

Internal use only: S-KJ