

**GRIFFIN FERTILIZER COMPANY
SAFETY DATA SHEET**

DATE PREPARED: 12/06/17

CURRENT AS OF: 1/9/18

SECTION 1: PRODUCT / SUPPLIER IDENTIFICATION

PRODUCT CODE:

PRODUCT NAME: Griffin 400 MZF

PRODUCT USE: Fertilizer

MFR INFO: Griffin Fertilizer Company
3201 South Scenic Hwy.
Frostproof, FL 33843

FOR EMERGENCY: (800) 424-9300
FOR INFORMATION: (863) 635-2281

SECTION 2: HAZARDS IDENTIFICATION

HAZARD SYMBOLS / STATEMENTS:



WARNING

MAY CAUSE SKIN AND EYE IRRITATION.

HAZARD CLASSIFICATIONS:

EYE IRRITATION
SKIN IRRITATION

CATEGORY

2A
2

INTERPRETATION

Causes serious eye irritation
Causes skin irritation

PRECAUTIONARY STATEMENTS:

- *WEAR PROTECTIVE GLOVES AND CLOTHING*
- *REMOVE CONTAMINATED CLOTHING AND WASH BEFORE REUSE*
- *AVOID BREATHING VAPORS/MISTS*
- *USE ONLY OUTDOORS OR IN WELL-VENTILATED AREA*
- *CALL POISON CONTROL OR SEEK MEDICAL ATTENTION IF YOU FEEL UNWELL*
- *WASH THOROUGHLY AFTER HANDLING*
- *DO NOT EAT, DRINK OR SMOKE WHEN USING THIS PRODUCT*
- *IF SWALLOWED: RINSE MOUTH AND SEEK MEDICAL ATTENTION*
- *IF IN EYES OR ON SKIN: RINSE AREA WITH PLENTY OF WATER, REMOVE CONTACT LENSES*
- *IF EYE OR SKIN IRRITATION CONTINUES: SEEK MEDICAL ATTENTION*

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

<u>CHEMICAL IDENTITY</u>	<u>SYNONYM</u>	<u>CAS NUMBER</u>	<u>CONCENTRATION (%)</u>
Manganous Sulfate	Manganese Sulphate	7785-87-7	10-20
Iron Sulfate		7720-78-7	10-20
Zinc Sulfate	Zincteral	7446-20-0	10-20

GRIFFIN 400 MZF

Ureas	Mixed ureas	Mixture	10-20
Sodium Glucoheptonate		31138-65-5	10-20

SECTION 4: FIRST AID MEASURES

IF INHALED:	Move to fresh air and keep comfortable, seek medical attention if unwell.
IF ON SKIN:	Wash affected areas with soap and water. Seek medical attention if irritation persists. Wash contaminated clothing before re-use.
IF IN THE EYES:	Immediately flush with water for 15-20 minutes, seek medical attention if irritation persists.
IF SWALLOWED:	Rinse mouth. DO NOT INDUCE VOMITTING unless directed by a medical professional. Seek medical attention if unwell.
SPECIAL TREATMENT:	None known
HEALTH HAZARDS:	See Section 11

SECTION 5: FIREFIGHTING MEASURES

EXTINGUISHING MEDIA:	Use media suitable for surrounding fire. No special media required.
SPECIFIC FIRE HAZARDS:	When heated to decomposition, this product will emit toxic oxides and ammonia.
SPECIAL FIREFIGHTING PROCEDURES:	Wear full protective clothing and positive-pressure self-contained breathing apparatus (SCBA).

SECTION 6: ACCIDENTAL RELEASE MEASURES

SPILL / RELEASE PROCEDURES:	Contain material and place in containers for use as intended, or discard according to Federal, State and Local regulations.
ENVIRONMENTAL PRECAUTIONS:	Prevent spilled material from entering storm drains or water bodies. If material enters a waterway, notify the appropriate authorities.
PROTECTIVE EQUIPMENT:	Wear PPE according to Section 8

SECTION 7: HANDLING AND STORAGE

Wash hands after handling material. Do not eat, drink or smoke while handling the material. Avoid breathing vapors/mists. Not intended for human consumption. Store in a cool, dry, well-ventilated area away from incompatible materials. Store above 32°F

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTIONEXPOSURE LIMITS:

The following constituents are the only constituents of the product, which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

<u>HAZARDOUS COMPONENT</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Manganese Compounds	5mg/m ³	0.2mg/m ³

PERSONAL PROTECTIVE EQUIPMENT / PROTECTION MEASURES / CONTROLS:

RESPIRATORY PROTECTION:	NIOSH approved respirator, if required
EYE PROTECTION:	Safety glasses with sideshields, goggles, or faceshield
SKIN PROTECTION:	Appropriate for the task. Impervious and compatible with material,
VENTILATION:	Use with adequate ventilation

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR:	Solution
pH:	Not Applicable
MELTING POINT:	Not applicable
BOILING POINT:	Not available
FLASH POINT:	Not flammable
EVAPORATION RATE:	Not available
FLAMMABLE LIMITS:	Not applicable
VAPOR PRESSURE:	Not available
VAPOR DENSITY:	Not available
SPECIFIC GRAVITY:	~1.367
SOLUBILITY (IN WATER):	Soluble
PARTITION COEFFICIENT:	Not available
AUTOIGNITION TEMP:	Not available
DECOMPOSITION TEMP:	Not available
ODOR THRESHOLD:	Not available
VISCOSITY:	Not available

SECTION 10: STABILITY AND REACTIVITY

STABILITY:	Product is stable.
CONDITIONS TO AVOID:	Heat.
INCOMPATIBILITY:	Strong acids, bases and oxidizers.
HAZARDOUS DECOMPOSITION PRODUCTS:	Toxic oxides and ammonia.

SECTION 11: TOXICOLOGICAL INFORMATION

HEALTH EFFECTS:	May cause skin and eye irritation.
CARCINOGENICITY:	None of the ingredients are known / listed carcinogens.
<u>INGREDIENT TOXICITY RANGES:</u>	

ORAL: > 14,300 mg/kg (urea)

SECTION 12: ECOLOGICAL INFORMATION

Long-term degradation products may arise. Products of degradation are not expected to be hazardous.

SECTION 13: DISPOSAL CONSIDERATIONS

Use product for intended purpose where possible. Dispose of in accordance with all national, regional / state, and local regulations.

SECTION 14: TRANSPORT INFORMATION

This product is not regulated as a transportation hazard.

SECTION 15: REGULATORY INFORMATION

SARA 311/312:	ACUTE
SARA 313:	Zinc Compounds Manganese Compounds
REPORTABLE QUANTITY:	Zinc Compounds (No RQ) Manganese Compounds (No RQ)
RIGHT-TO-KNOW:	Zinc Compounds (CA, IL, MA, NJ, PA) Manganese Compounds (CA, MA, MN, NJ, PA)

SECTION 16: OTHER INFORMATION

NFPA RATINGS:	HEALTH	1
	FLAMMABILITY	0
	INSTABILITY	0
HMIS RATINGS:	HEALTH	1
	FLAMMABILITY	0
	INSTABILITY	0
SDS NO:	XYZ	
PREPARED BY:	EHS Consulting	

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