



**THE ANDERSONS
SAFETY DATA SHEET**

DATE PREPARED: 05/26/22

CURRENT AS OF: 4/16/24

SECTION 1: PRODUCT / SUPPLIER IDENTIFICATION

PRODUCT CODE: 10008180, 10007305

PRODUCT NAME: MICROMARK® DG B

PRODUCT USE: Fertilizer

MFR INFO: The Andersons, Inc.
PO Box 119
Maumee, OH 43537

FOR EMERGENCY: (800) 757-8951
FOR INFORMATION: (419) 893-5050

SECTION 2: HAZARDS IDENTIFICATION

HAZARD SYMBOLS / STATEMENTS:



DANGER MAY CAUSE CANCER. HARMFUL IF SWALLOWED. CAUSES SERIOUS EYE DAMAGE, SKIN AND RESPIRATORY IRRITATION. CAUSES DAMAGE TO ORGANS THROUGH REPEATED EXPOSURE.

HAZARD CLASSIFICATIONS:

CARCINOGENICITY

ACUTE TOXICITY, ORAL

EYE DAMAGE

SKIN IRRITATION

SPECIFIC TARGET ORGAN TOXICITY

- *REPEATED EXPOSURE*

CATEGORY

1

4

1

2

2

INTERPRETATION

May cause cancer

Harmful if swallowed

Causes serious eye damage

Causes skin irritation

May cause damage to organs through prolonged or repeated exposure

PRECAUTIONARY STATEMENTS:

- *OBTAIN SPECIAL INSTRUCTIONS BEFORE USE*
- *DO NOT HANDLE UNTIL ALL SAFETY PRECAUTIONS HAVE BEEN READ AND UNDERSTOOD*
- *IF EXPOSED OR CONCERNED: GET MEDICAL ADVICE/ATTENTION*
- *STORE LOCKED UP*
- *WEAR PROTECTIVE GLOVES AND CLOTHING*
- *REMOVE CONTAMINATED CLOTHING AND WASH BEFORE REUSE*
- *DO NOT BREATHE DUSTS*
- *IF INHALED: MOVE TO FRESH AIR AND KEEP COMFORTABLE. SEEK MEDICAL ATTENTION IF UNWELL*
- *USE ONLY OUTDOORS OR IN WELL-VENTILATED AREA*

MICROMARK® DG B

- *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 AND SEEK MEDICAL ATTENTION*
- *IF 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
Gypsum		7631-86-9	50-60
Zinc Sulfate	Zincteral	7733-02-0	00-10
Zinc Oxide		1314-13-2	00-10
Lignin Sulfonate	LS-50	8061-53-8	00-10
Ulexite	Boron	1319-33-1	00-10

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, remove contact lenses if present and easy to do – continue rinsing and seek medical attention.
IF SWALLOWED:	Rinse mouth. DO NOT INDUCE VOMITING unless directed by a medical professional. Call POISON CONTROL and seek medical attention.
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 sulfides.
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

Avoid creating or accumulating dusts during processing and application. Wash hands after handling material. Do not eat, drink or smoke while handling the material. Do not breathe dusts. Not intended for human consumption. Store in a cool, dry, well-ventilated area away from incompatible materials.

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. Currently, 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
Gypsum	15 mg/m ³ (total) 5 mg/m ³ (respirable)	10 mg/m ³ (inhalable) 3 mg/m ³ (respirable)
Quartz (crystalline silica)	15 mg/m ³ (total) 5 mg/m ³ (respirable)	6 mg/m ³ (NIOSH, TWA) 0.025 mg/m ³ (ACGIH, respirable)

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:	Greyish Granular with mild smokey/soy smell
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:	Not available
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, accumulation of dusts
INCOMPATIBILITY:	Strong acids, bases, oxidizers, diazomethane, aluminum and phosphorus
HAZARDOUS DECOMPOSITION PRODUCTS:	Toxic oxides and sulfides

SECTION 11: TOXICOLOGICAL INFORMATION

HEALTH EFFECTS:	May cause cancer. Causes serious eye damage, skin and respiratory irritation. Harmful if swallowed. May cause damage to the lungs and liver through repeated exposure.
CARCINOGENICITY:	This product contains crystalline silica (Group 1), which has been classified by IARC, NTP and ACGIH as a known human carcinogen and suspected human carcinogen respectively.
<u>INGREDIENT TOXICITY RANGES:</u>	
ORAL:	> 305 mg/kg (manganese sulfate) – 623 mg/kg (zinc sulfate)

SECTION 12: ECOLOGICAL INFORMATION

Very toxic to aquatic life with long lasting effects. 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. Do not generate dusts. 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, CHRONIC
SARA 313:	Manganese Compounds
REPORTABLE QUANTITY:	Manganese Compounds (No RQ)
RIGHT-TO-KNOW:	Manganese Compounds (CA, MA, MN, NJ, PA) Manganous Sulfate (CA, MN, NJ, PA) Zinc Sulfate (MA, NJ, PA)
CA PROP-65:	WARNING: This product contains a chemical known to the State of California to cause cancer or reproductive harm (Silica, crystalline)

SECTION 16: OTHER INFORMATION

NFPA RATINGS:	HEALTH	1
	FLAMMABILITY	0
	INSTABILITY	0
HMIS RATINGS:	HEALTH	1
	FLAMMABILITY	0
	INSTABILITY	0
PREPARED BY:	DBA EHS Consulting	

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