



**THE ANDERSONS
SAFETY DATA SHEET**

DATE PREPARED: 10/01/19

CURRENT AS OF: 1/7/22

SECTION 1: PRODUCT / SUPPLIER IDENTIFICATION

PRODUCT CODE: 10006196, CDG12M40, CDG12M40.1

PRODUCT NAME: CONTEC DG® DISPERSING GRANULE TECHNOLOGY 12-3-12

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:



WARNING CAUSES SKIN AND SERIOUS 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 DUSTS*
- *IF INHALED: MOVE TO FRESH AIR AND KEEP COMFORTABLE. SEEK MEDICAL ATTENTION IF UNWELL*
- *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> |
|---------------------------------|-----------------------|--------------------------|---------------------------------|
| Ammonium Dihydrogen Phosphate | MAP | 7722-76-1 | 1-10 |
| Ureas | Mixed ureas | Mixture | 1-10 |
| Ammonium Sulfate | | 7783-20-2 | 50-60 |
| Manganous Sulfate | Manganese Sulphate | 7785-87-7 | 1-10 |
| Iron Sulfate | Ferrous sulfate | 7720-78-7 | 1-10 |
| Potassium Sulfate | | 7778-80-5 | 20-30 |

SECTION 4: FIRST AID MEASURES

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| 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 VOMITING unless directed by a medical professional. Seek medical attention if unwell. |
| SPECIAL TREATMENT: | None known |
| HEALTH HAZARDS: | See Section 11 |

SECTION 5: FIREFIGHTING MEASURES

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| 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, sulfides and ammonia. |
| SPECIAL FIREFIGHTING PROCEDURES: | Wear full protective clothing and positive-pressure self-contained breathing apparatus (SCBA). |

SECTION 6: ACCIDENTAL RELEASE MEASURES

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| 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. Avoid breathing dusts. Not intended for human consumption. Store in a cool, dry, well ventilated area away from incompatible materials.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**EXPOSURE 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> |
|-----------------------------------|------------------------|--|
| Ferrous Sulfate | | 1 mg/m ³ (TWA) 1 mg/m ³ (TWA) (NIOSH) |
| Manganese Compounds | 5mg/m ³ | 0.2mg/m ³ |

PERSONAL PROTECTIVE EQUIPMENT / PROTECTION MEASURES / CONTROLS:

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| 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

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|------------------------|-------------------------------|
| APPEARANCE AND ODOR: | Tan granules with slight odor |
| 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: | ~0.881 |
| 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

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| STABILITY: | Product is stable. |
| CONDITIONS TO AVOID: | Heat, accumulation of dusts |
| INCOMPATIBILITY: | Strong acids, bases, oxidizers, soft metals and alloys |
| HAZARDOUS DECOMPOSITION PRODUCTS: | Toxic oxides, sulfides and ammonia |

SECTION 11: TOXICOLOGICAL INFORMATION

HEALTH EFFECTS: Causes serious eye and skin irritation.

CARCINOGENICITY: None of the ingredients are known / listed carcinogens.

INGREDIENT TOXICITY RANGES:

ORAL: > 305 mg/kg (manganese sulfate) – 14,300 mg/kg (urea)

DERMAL: > 155 mg/kg (ferrous sulfate) – 2,000 mg/kg (ammonium sulfate)

SECTION 12: ECOLOGICAL INFORMATION

Long term degradation products may arise. Products of degradation are not expected to be hazardous. Excessive nutrients in waterways may cause algal blooms that may be detrimental to aquatic life.

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

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|----------------------|--|
| 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) |

SECTION 16: OTHER INFORMATION

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| 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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