



THE ANDERSONS TURF PRODUCTS DUOCIDE® INSECT CONTROL

SAFETY DATA SHEET

CURRENT AS OF: 9/4/25

SECTION 1: PRODUCT / SUPPLIER IDENTIFICATION

PRODUCT CODE: 10005211, 10005678, 10005679, 10005680, 10005681, 10009872, 10009891, 10009924, 10009962, 10010165, 10010492, 10010804, 10010805, 10010806

PRODUCT NAME: THE ANDERSONS TURF PRODUCTS DUOCIDE® INSECT CONTROL

PRODUCT USE: Fertilizer/Pesticide

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

SUSPECTED OF CAUSING CANCER. SUSPECTED OF DAMAGING FERTILITY OR THE UNBORN CHILD. HARMFUL IF INHALED OR SWALLOWED. CAUSES EYE, SKIN AND RESPIRATORY IRRITATION.

HAZARD CLASSIFICATIONS:

TOXIC TO REPRODUCTION

CATEGORY

1B

INTERPRETATION

Suspected of damaging fertility or the unborn child

CARCINOGENICITY

2

Suspected of causing cancer

ACUTE TOXICITY, INHALATION

4

Harmful if inhaled

ACUTE TOXICITY, ORAL

4

Harmful if swallowed

SPECIFIC TARGET ORGAN TOXICITY

- **SINGLE EXPOSURE**

3

Causes irritation to respiratory tract

- **REPEATED EXPOSURE**

3

Causes damage to the blood or liver 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**

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- *IF INHALED: MOVE TO FRESH AIR AND KEEP COMFORTABLE. SEEK MEDICAL ATTENTION IF UNWELL*
- *WASH THOROUGHLY AFTER HANDLING*
- *IF SWALLOWED AND UNWELL: 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>
Carbaryl	Sevin	63-25-2	<5.0
Bifenthrin	Talstar	82657-04-3	<0.1
N-Methylpyrrolidinone	M-Pyrol	872-50-4	<2.0
Non-hazardous ingredients		Mixture	90-100

SECTION 4: FIRST AID MEASURES

IF INHALED:	Move to fresh air and keep comfortable. Call POISON CONTROL and seek medical attention.
IF ON SKIN:	Wash affected areas with soap and water while removing and isolating all contaminated clothing. 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. Seek medical attention if irritation persists.
IF SWALLOWED:	Rinse mouth. DO NOT INDUCE VOMITTING 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:	Remove heat and sources of ignition. Do not create dusts. 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.

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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 get in eyes or on skin. Do not breathe dusts. Not intended for human consumption. Store locked up 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. Currently, the other constituents have no known exposure limits.

<u>HAZARDOUS COMPONENT</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Carbaryl	Not Available	5 mg/m ³
N-Methylpyrrolidinone	15 ppm (TWA) 30 ppm (STEL)	

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:	Brown granules with slightly musty 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:	~0.753
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, open flame, incompatible materials

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INCOMPATIBILITY: Strong oxidizers, organic solvents

HAZARDOUS DECOMPOSITION PRODUCTS: NO_x, CO_x, methyl isocyanate

SECTION 11: TOXICOLOGICAL INFORMATION

HEALTH EFFECTS: Effects of contact or inhalation may be delayed. Suspected of damaging fertility or the unborn child. Causes damage to blood and liver through prolonged or repeated exposure. Causes skin, eye, and respiratory irritation. Ingestion may result in abdominal pain, nausea, diarrhea, blurred vision, sweating, salivation, muscle twitching, and tremor. Signs and symptoms include headache, dizziness, incoordination, muscle twitching, tremors, nausea, diarrhea, abdominal cramps, sweating, pupil constriction, blurred vision, salivation, tearing, tightness in the chest, excessive urination, and convulsions. All symptoms are dose-dependent, rapid in onset, and reversible in time. Harmful if swallowed or inhaled.

CARCINOGENICITY: Carbaryl is classified as "Not Classifiable" (Group D). Acute and chronic exposure may cause cholinesterase inhibition. Product may contain trace amounts of wood dust and crystalline silica, which are listed by IARC as potential human carcinogens.

INGREDIENT TOXICITY RANGES:

ORAL: > 187 mg/kg (carbaryl) – 3,914 mg/kg (n-methylpyrrolidinone)

DERMAL: > 2,000 mg/kg (bifenthrin) – 4,000 mg/kg (carbaryl)

INHALATION: > 2.5 mg/L (carbaryl, 4hr)

Note: The toxicity estimates are based on Carbaryl, but carbaryl is not regulated by transportation for quantities under 100 pounds. Since this product is less than 5% carbaryl and the total weight of the product is 40 pounds, this product is not regulated as a transportation hazard.

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.

Note: The toxicity estimates are based on Carbaryl, but carbaryl is not regulated by transportation for quantities under 100 pounds. Since this product is less than 5% carbaryl and the total weight of the product is 40 pounds, this product is not regulated as a transportation hazard.

SECTION 15: REGULATORY INFORMATION

SARA 311/312:	Acute
SARA 313:	Carbaryl, Bifenthrin, N-Methylpyrrolidinone
REPORTABLE QUANTITY:	Carbaryl (100 lbs)
RIGHT-TO-KNOW:	Carbaryl (CA, CT, IL, MA, MN, NJ, PA, RI) N-Methylpyrrolidinone (MA, PA)
CA PROP-65:	WARNING: This product contains a chemical known to the State of California to cause cancer or reproductive harm (Carbaryl, N-Methylpyrrolidinone)
RCRA:	Code U279

SECTION 16: OTHER INFORMATION

NFPA RATINGS:	HEALTH	3
	FLAMMABILITY	0
	INSTABILITY	0
HMIS RATINGS:	HEALTH	3
	FLAMMABILITY	0
	INSTABILITY	0
ACTIVE INGREDIENT LEVEL (%):	2.300 as carbaryl 0.058 as bifenthrin	

PREPARATION & VERSION INFORMATION

Version 001 – SDS originally created 5/7/2025 Prepared By DBA EHS Consulting
Version 002 – SDS updated with additional material codes 09/04/25

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