

THE ANDERSONS SAFETY DATA SHEET

DATE PREPARED: 02/15/07 CURRENT AS OF: 6/17/15

SECTION 1: PRODUCT / SUPPLIER IDENTIFICATION

PRODUCT CODE: APTDGDU4

PRODUCT NAME: The Andersons Turf Products Duocide Insect Control

PRODUCT USE: Fertilizer / Pesticide

MFR INFO: The Andersons Lawn Products

PO Box 119

Maumee, Ohio, USA 43537

FOR EMERGENCY: (800) 757-8951 FOR INFORMATION: (419) 891-2957

SECTION 2: HAZARDS IDENTIFICATION

HAZARD SYMBOLS / STATEMENTS:



DANGER TOXIC IF SWALLOWED

HARMFUL IF INHALED

MAY BE HARMFUL IN CONTACT WITH SKIN

MAY CAUSE MILD SKIN IRRITATION

MAY CAUSE EYE IRRITATION

MAY CAUSE RESPIRATORY IRRITATION

HAZARD CLASSIFICATIONS:	CATEGORY	<u>INTERPRETATION</u>
ACUTE TOXICITY	3	Moderate to High
SKIN IRRITATION	3	Mild Skin Irritation Possible
EYE IRRITATION	2B	Promptly Reversible Eye Irritation Possible
TARGET ORGAN SYSTEMIC TOXICITY	3	Transient Respiratory Irritation Possible

PRECAUTIONARY STATEMENTS:

- DO NOT EAT, DRINK, OR SMOKE WHEN USING PRODUCT
- IF SWALLOWED, IMMEDIATELY CALL A POISON CENTER / PHYSICIAN
- KEEP OUT OF REACH OF CHILDREN
- READ LABEL BEFORE USE
- IF MEDICAL ADVICE IS NEEDED, HAVE PRODUCT CONTAINER OR LABEL ON HAND
- CALL A POISON CENTER / PHYSICIAN IF UNWELL
- IF ON SKIN, WASH WITH PLENTY OF SOAP AND WATER
- IF SKIN IRRITATION OCCURS, GET MEDICAL ADVICE
- IF IN EYES, RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES REMOVE CONTACT LENSES
- IF EYE IRRITATION PERSISTS, GET MEDICAL ADVICE
- WASH HANDS AFTER HANDLING
- USE ONLY OUTDOORS OR IN WELL VENTILATED AREAS
- AVOID BREATHINNG DUST
- IF INHALED, REMOVE TO FRESH AIR AND KEEP AT REST IN A POSITION COMFORTABLE FOR BREATHING
- STORE CONTAINER TIGHTLY CLOSED, LOCKED UP
- DISPOSE OF CONTENTS / CONTAINER IN ACCORDANCE WITH NATIONAL / REGIONAL / LOCAL REGULATIONS

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL IDENTITY	<u>SYNONYM</u>	CAS NUMBER	CONCENTRATION (%)
Proprietary carrier	DG Lite	Not listed	94.6
Carbaryl	Sevin	63-25-2	2.4
Potassium sulfate	Sulfate of potash	7778-80-5	2.0

SECTION 4: FIRST AID MEASURES

IF INHALED: Move victim to fresh air. Seek medical attention if irritation persists.

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 at least 20 minutes. Seek medical attention if

irritation persists.

IF SWALLOWED: If victim is alert and not convulsing, give one glass of water to dilute material,

but DO NOT induce vomiting. Seek immediate medical attention.

SPECIAL TREATMENT: Atropine by IV administration is preferable antidote. Oximes may or may not be

therapeutic, but is recommended they not be used in place of atropine. Suggest serum / RBC cholinesterase determination. Treat symptomatically.

HEALTH HAZARDS: See Section 11

SECTION 5: FIREFIGHTING MEASURES

EXTINGUISHING MEDIA: Use media suitable for surrounding fire. No special media

required.

SPECIFIC FIRE HAZARDS: Decomposition products may be toxic. Carbaryl may release

methyl isocyanate when heated to extremes.

SPECIAL FIREFIGHTING PROCEDURES: Wear full protective clothing and positive-pressure self-

contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

SPILL / RELEASE 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 water bodies.

PROTECTIVE EQUIPMENT: See Section 8

SECTION 7: HANDLING AND STORAGE

Store in a cool, dry, well ventilated area. Do not store above 120° F.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS:

HAZARDOUS COMPONENT	OSHA PEL	ACGIH TLV
DG Lite carrier	15 mg/m³ (total) 5 mg/m³ (respirable)	10 mg/m³ (inhalable) 3 mg/m³ (respirable)
Carbaryl	5 mg/m ³	5 mg/m ³
Potassium sulfate	15 mg/m³ (total) 5 mg/m³ (respirable)	10 mg/m³ (inhalable) 3 mg/m³ (respirable)

PERSONAL PROTECTIVE EQUIPMENT / PROTECTION MEASURES / CONTROLS:

RESPIRATORY PROTECTION: NIOSH approved pesticide respirator, if required

EYE PROTECTION: Safety glasses with sideshields, goggles, or faceshield recommended

SKIN PROTECTION: Long sleeves, chemical-resistant (rubber, PVC) gloves recommended

VENTILATION: Local exhaust ventilation recommended

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Tan granular mix, with slight odor

Not available pH: MELTING POINT: Not available Not applicable **BOILING POINT:** FLASH POINT: Not flammable **EVAPORATION RATE:** Not applicable FLAMMABLE LIMITS: Not applicable **VAPOR PRESSURE:** Not applicable Not applicable VAPOR DENSITY: Not available SPECIFIC GRAVITY: SOLUBILITY (IN WATER): Partially soluble PARTITION COEFFICIENT: Not applicable **AUTOIGNITION TEMP:** Not available **DECOMPOSITION TEMP:** Not available

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Product is stable.

CONDITIONS TO AVOID: Excessive heat (greater than 200°F)

INCOMPATIBILITY: Strong oxidizers, acids, alkalis

HAZARDOUS DECOMPOSITION PRODUCTS: SOx, COx, NOx, HCI, HF

SECTION 11: TOXICOLOGICAL INFORMATION

HEALTH EFFECTS: May be irritating to the nose and respiratory tract, and may cause sore throat, coughing

and shortness of breath. Skin irritation, including numbing, burning, or tingling sensations, may result from repeated or prolonged exposure. May also be irritating to the eyes, causing redness and watering. Ingestion may result in abdominal pain, nausea, diarrhea, blurred vision, sweating, salivation, muscle twitching, and tremor. Excessive exposures to carbaryl may produce effects associated with cholinesterase inhibition. 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. Bifenthrin overexposure through ingestion may result in nose bleeds, tremors, and convulsions. The active ingredient is moderately toxic by the oral route and slightly

toxic by the dermal route.

CARCINOGENICITY: None of the ingredients are known / listed carcinogens. However, product may contain

trace amounts of crystalline silica and wood dust, which are listed by IARC as potential

human carcinogens. Both bifenthrin and carbaryl are listed as possible human

carcinogens, having shown evidence of urinary bladder and other tumors during lifetime

feeding studies.

INGREDIENT TOXICITY RANGES:

ORAL: 175 mg/kg (bifenthrin) – 6,600 mg/kg (potassium sulfate)

DERMAL: > 2,020 mg/kg (bifenthrin)

INHALATION: 2,5 mg/L (4 hr) (carbaryl)

SECTION 12: ECOLOGICAL INFORMATION

Bifenthrin is highly toxic to fish and other aquatic organisms. Carbaryl is extremely toxic to aquatic invertebrates. This product is not known to be persistent or have the potential to bioaccumulate.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of in accordance with all national, regional / state, and local regulations. Reuse recovered product where possible.

SECTION 14: TRANSPORT INFORMATION

This product is not regulated as a transportation hazard.

SECTION 15: REGULATORY INFORMATION

SARA SECTION 311 / 312 HAZARD CATEGORY: IMMEDIATE HAZARD

SECTION 16: OTHER INFORMATION

NFPA RATINGS: HEALTH 1

FLAMMABILITY 0 INSTABILITY 0

HMIS RATINGS: HEALTH 1

FLAMMABILITY 0 PHYSICAL HAZARD 0

ACTIVE INGREDIENT LEVEL (%): 2.300 as carbaryl

0.058 as bifenthrin

MSDS ID NO: 5151

PREPARED BY: SS

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