



**THE ANDERSONS  
SAFETY DATA SHEET**

DATE PREPARED: 02/15/07

CURRENT AS OF: 6/18/15

**SECTION 1: PRODUCT / SUPPLIER IDENTIFICATION**

PRODUCT CODE: AGCDGDU4  
PRODUCT NAME: Andersons Golf Products Duocide G  
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:

*ACUTE TOXICITY*  
*SKIN IRRITATION*  
*EYE IRRITATION*  
*TARGET ORGAN SYSTEMIC TOXICITY*

CATEGORY

3  
3  
2B  
3

INTERPRETATION

Moderate to High  
Mild Skin Irritation Possible  
Promptly Reversible Eye Irritation Possible  
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 BREATHING 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**

<u>CHEMICAL IDENTITY</u>	<u>SYNONYM</u>	<u>CAS NUMBER</u>	<u>CONCENTRATION (%)</u>
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:

<u>HAZARDOUS COMPONENT</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
DG Lite carrier	15 mg/m <sup>3</sup> (total) 5 mg/m <sup>3</sup> (respirable)	10 mg/m <sup>3</sup> (inhalable) 3 mg/m <sup>3</sup> (respirable)
Carbaryl	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>
Potassium sulfate	15 mg/m <sup>3</sup> (total) 5 mg/m <sup>3</sup> (respirable)	10 mg/m <sup>3</sup> (inhalable) 3 mg/m <sup>3</sup> (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
pH:	Not available
MELTING POINT:	Not available
BOILING POINT:	Not applicable
FLASH POINT:	Not flammable
EVAPORATION RATE:	Not applicable
FLAMMABLE LIMITS:	Not applicable
VAPOR PRESSURE:	Not applicable
VAPOR DENSITY:	Not applicable
SPECIFIC GRAVITY:	Not available
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: SO<sub>x</sub>, CO<sub>x</sub>, NO<sub>x</sub>, HCl, 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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