



**THE ANDERSONS
SAFETY DATA SHEET**

DATE PREPARED: 08/13/14

CURRENT AS OF: 7/22/15

SECTION 1: PRODUCT / SUPPLIER IDENTIFICATION

PRODUCT CODE: ASPFF3.1

PRODUCT NAME: FF III Snowmold Fungicide

PRODUCT USE: Fungicide

DISTRIBUTOR 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:



WARNING

**HARMFUL IF SWALLOWED
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

4

3

2B

3

INTERPRETATION

Low to Moderate

Mild Skin Irritation Possible

Promptly Reversible Eye Irritation Possible

Transient Respiratory Irritation Possible

PRECAUTIONARY STATEMENTS:

- *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*
- *DO NOT EAT, DRINK, OR SMOKE WHEN USING PRODUCT*
- *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*
- *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>
Biodac carrier		Not listed	40.8
PCNB & Propiconazole mix		Mixture	25.4
Proprietary carrier	DG Lite	Not listed	11.2
Vermiculite		Not listed	10.4
Chlorothalonil	Daconil	1897-45-6	5.2
Potassium sulfate	Sulfate of potash	7778-80-5	3.5
Ammonium sulfate		7783-20-2	2.1
Methylene ureas		Not listed	1.1

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:	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:	Decomposition products may be toxic.
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>
Biodac carrier	15 mg/m ³ (total) 5 mg/m ³ (respirable)	10 mg/m ³ (inhalable) 3 mg/m ³ (respirable)
DG Lite carrier	15 mg/m ³ (total) 5 mg/m ³ (respirable)	10 mg/m ³ (inhalable) 3 mg/m ³ (respirable)
Vermiculite	15 mg/m ³ (total) 5 mg/m ³ (respirable) 0.1 mg/m ³ (respirable quartz)	10 mg/m ³ (inhalable) 3 mg/m ³ (respirable) 0.5 mg/m ³ (respirable quartz)
Potassium sulfate	15 mg/m ³ (total) 5 mg/m ³ (respirable)	10 mg/m ³ (inhalable) 3 mg/m ³ (respirable)
Ammonium sulfate	15 mg/m ³ (total) 5 mg/m ³ (respirable)	10 mg/m ³ (inhalable) 3 mg/m ³ (respirable)
PCNB		0.5 mg/m ³

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 (nitrile or butyl rubber) gloves recommended
VENTILATION:	Local exhaust ventilation recommended

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR:	Multi-colored 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: NO_x, CO_x, NH₃, SO_x, cyanuric acid, HCl, HCN, phosgene

SECTION 11: TOXICOLOGICAL INFORMATION

HEALTH EFFECTS: May be irritating to the nose, respiratory tract, and digestive system. Ingestion may result in abdominal pain, vomiting, and diarrhea. Skin and eye irritation may also result. Eye irritation can be severe. Ingestion of large amounts of chlorothalonil may cause gastrointestinal irritation.

CARCINOGENICITY: None of the ingredients are known / listed carcinogens. However, product may contain trace amounts of crystalline silica / quartz and wood dust, which are listed by IARC as potential human carcinogens. Studies on laboratory animals have suggested that chlorothalonil may have oncogenic potential. PCNB is an experimental animal carcinogen and a possible human carcinogen.

INGREDIENT TOXICITY RANGES:

ORAL: 1,517 mg/kg (propiconazole) – 6,600 mg/kg (potassium sulfate)

DERMAL: > 2,000 mg/kg (ammonium sulfate, chlorothalonil) -- > 4,000 mg/kg (propiconazole)

INHALATION: 5.8 mg/L (4 hr) (propiconazole) – 6.49 mg/L (PCNB)

SECTION 12: ECOLOGICAL INFORMATION

This product is not known to be ecotoxic, 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 (%): 7.50 as PCNB
3.90 as chlorothalonil
0.62 as propiconazole

MSDS ID NO: 5233

PREPARED BY: SS

The information and data contained herein is based upon facts considered to be correct as of the date hereof. Information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. In no event will The Andersons be responsible for damages of any nature whatsoever resulting from the use or reliance upon this information. No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose or of any other nature are made hereunder with respect to information or the product to which this information refers.