SDS # : FO002249-A Revision date: 2019-06-03 Format: NA Version 1.01



# 1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier	
Product Name	Fullback 125 SC Fungicide
Other means of identification	
Product Code(s)	FO002249-A
Legacy Product Code	1310-05
Synonyms	eq:FLUTRIAFOL: \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$
Active Ingredient(s)	Flutriafol
Chemical Family	Triazole
PCP #	31679
Recommended use of the chemical	and restrictions on use
Recommended Use:	Fungicide
Restrictions on Use:	Use as recommended by the label.
Supplier Address	FMC Corporation 2929 Walnut Street Philadelphia, PA 19104 (215) 299-6000 (General Information) msdsinfo@fmc.com (E-Mail General Information) Medical Emergencies : 1 800 / 331-3148 (U.S.A. & Canada) 1 651 / 632-6793 (All Other Countries - Collect) For leak, fire, spill or accident emergencies, call: 1 800 / 424-9300 (CHEMTREC - U.S.A.) 1 703 / 741-5970 (CHEMTREC - International) 1 703 / 527-3887 (CHEMTREC - Alternate)

# 2. HAZARDS IDENTIFICATION

# **Classification**

### **OSHA Regulatory Status**

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin sensitization

Category 1B

GHS Label elements, including precautionary statements

#### **EMERGENCY OVERVIEW**

# Warning

## Hazard Statements

H317 - May cause an allergic skin reaction H411 - Toxic to aquatic life with long lasting effects



## **Precautionary Statements - Prevention**

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

- P272 Contaminated work clothing should not be allowed out of the workplace
- P280 Wear protective gloves

P273 - Avoid release to the environment

# Precautionary Statements - Response

P302 + P352 - IF ON SKIN: Wash with plenty of water and soap

P332 + P313 - If skin irritation occurs: Get medical advice/attention

P363 - Wash contaminated clothing before reuse

P391 - Collect spillage

## **Precautionary Statements - Storage**

P405 - Store locked up

## **Precautionary Statements - Disposal**

P501 - Dispose of contents/container according to label directions

#### Hazards not otherwise classified (HNOC)

No hazards not otherwise classified were identified.

#### Other Information

May be harmful in contact with skin.

# **3. COMPOSITION/INFORMATION ON INGREDIENTS**

#### **Chemical Family**

# Triazole.

Chemical name	CAS-No	Weight %
Flutriafol	76674-21-0	11.6
Propylene glycol	57-55-6	5-10
Alcohols, C13-15 Branched and Linear, Ethoxylated	157627-86-6	5-10
1,2 benzisothiazolin-3-one	2634-33-5	0.02 (max)

Synonyms are provided in Section 1.

# **4. FIRST AID MEASURES**

Eye Contact	Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Get medical attention if irritation develops and persists.
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention if irritation develops and persists. Page 2/10

Inhalation	Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.
Ingestion	Immediate medical attention is required. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
Most important symptoms and effects, both acute and delayed	When fed to animals at high dosage, similar products caused salivation, depression of activity, muscle spasms, ataxia and increased body temperature.
Indication of immediate medical attention and special treatment needed, if necessary	Treatment is symptomatic and supportive.

5. FIRE-FIGHTING MEASURES				
Suitable Extinguishing Media	Dry chemical, Carbon dioxide (CO2), Water spray, Foam. Avoid heavy hose streams.			
Specific Hazards Arising from the Chemical	None known			
Hazardous Combustion Products	The essential breakdown products are volatile, toxic, irritant and inflammable compounds such as: Hydrogen fluoride, Nitrogen oxides (NOx), Carbon monoxide, Carbon dioxide (CO <sub>2</sub> ), various chlorinated and fluorinated organic compounds.			
<u>Explosion data</u> Sensitivity to Mechanical Impact Sensitivity to Static Discharge	No information available. No information available.			
Protective equipment and precautions for firefighters	Use water spray to cool fire exposed surfaces and protect personnel. Approach fire from upwind to avoid hazardous vapours and toxic decomposition products. Dike to prevent runoff. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. As in any fire, wear self-contained breathing apparatus and full protective gear.			
	6. ACCIDENTAL RELEASE MEASURES			
Personal Precautions	Isolate and post spill area. Remove all sources of ignition. Wear suitable protective clothing, gloves and eye/face protection. For personal protection see section 8.			
Other	For further clean-up instructions, call FMC Emergency Hotline number listed in Section 1 "Product and Company Identification" above.			
Environmental Precautions	Keep material out of lakes, streams, ponds, and sewer drains.			
Methods for Containment	Wear the full Personal Protection Equipment, avoiding inhalation or contact with skin or eyes. Dike to contain spill with inert material which is absorbent and non-combustible (clay, sand or soil). Then soak up with absorbent material inward from the edges.			
Methods for cleaning up	If appropriate, surface water drains should be covered. Minor spills on the floor or other impervious surface should be swept up or preferably vacuumed up using equipment with high efficiency final filter. Transfer to suitable containers. Clean area with strong industrial detergent and much water. Absorb wash liquid onto a suitable absorbent such as hydrated lime, universal binder, attapulgite, bentonite or other absorbent clays and transfer contaminated absorbent to suitable containers. The used containers should be properly closed and labelled.			

# 7. HANDLING AND STORAGE

Handling

Handle in accordance with good industrial hygiene and safety practice. Do not contaminate other pesticides, fertilizers, water, food, or feed by storage or disposal. Handle product only in closed system or provide appropriate exhaust ventilation at machinery. Remove and wash contaminated clothing before re-use. Wash thoroughly after handling.

#### Storage

To maintain quality, maximum storage temperatures should not exceed 25°C. Protect from frost, heat and sunlight. Keep container tightly closed in a dry and well-ventilated place. Keep out of reach of children and animals. Keep away from food, drink and animal feedingstuffs. Keep/store only in original container. Keep in properly labeled containers.

Incompatible products

Oxidizing agents, Copper, Copper alloys

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Chemical name	British Columbia	Quebec	Ontario TWAEV	Alberta
Propylene glycol (57-55-6)	-	-	TWA: 10 mg/m <sup>3</sup> aerosol only	-
			TWA: 50 ppm aerosol and vapor	
			TWA: 155 mg/m <sup>3</sup> aerosol and vapor	
Appropriate engineering	controls			
Engineering measures	When workin source of air	cal measures to comply wit g in confined spaces (tank for breathing and wear the r to discharge.	s, containers, etc.), make	sure there is an adequate
Individual protection me	asures, such as persona	I protective equipment		
Eye/Face Protection		If splashes are likely to occur, wear: Safety glasses with side-shields. Maintain eye wash fountain and quick-drench facilities in work area.		
Skin and Body Protectio		Wear suitable protective clothing. Protective shoes or boots. Minimize skin contamination by following good industrial hygiene practices.		
Hand Protection		Use protective gloves made of chemical materials such as nitrile or neoprene. Wash the outside of gloves with soap and water before reuse. Check regularly for leaks.		
Respiratory Protection	handling. In t vapour or mis	The product does not automatically present an airborne exposure concern during normal handling. In the event of an accidental discharge of the material which produces a heavy vapour or mist, workers should put on officially approved respiratory protection equipment with a universal filter type including particle filter.		
Hygiene measures	skin before e contaminated	ean water available for was ating, drinking, chewing gu d clothing and wash before sehold laundry.	im, or using snuff. Shower	after work. Remove
General information		t is used in mixtures, it is re uipment suppliers.	ecommended that you con	tact the appropriate

# 9. PHYSICAL AND CHEMICAL PROPERTIES

## Information on basic physical and chemical properties

Appearance	Suspension
Physical State	Liquid
Color	Off-white / brown
Odor	Fish, Glue-like

**Odor threshold** pН Melting point/freezing point **Boiling Point/Range** Flash point **Evaporation Rate** Flammability (solid, gas) Flammability Limit in Air Upper flammability limit: Lower flammability limit: Vapor pressure Vapor density **Relative density** Specific gravity Water solubility Solubility in other solvents Partition coefficient Autoignition temperature **Decomposition temperature** Viscosity, kinematic Viscosity, dynamic **Explosive properties Oxidizing properties** Molecular weight **Bulk density** Kst

Not applicable 6.5 @ 25°C (1% solution in water) < 0 °C 99 °C > 99 °C (PMCC) No information available Not applicable (Product is a liquid) No information available No information available No information available No information available 1.06 g/mL No information available Dispersible in water No information available 83-560 mPa.s @20°C; 68-455 mPa.s @ 40°C Not explosive Non-oxidizing No information available No information available >0 bar m/s

# **10. STABILITY AND REACTIVITY**

Reactivity	None under normal use conditions
Chemical Stability	Stable under normal conditions.
Possibility of Hazardous Reactions	None under normal processing.
Hazardous polymerization	None under normal processing.
Conditions to avoid	Heating can release hazardous gases
Incompatible materials	Oxidizing agents, Copper, Copper alloys.
Hazardous Decomposition Products	See Section 5 for more information.

# **11. TOXICOLOGICAL INFORMATION**

Harmful by inhalation, in contact with skin and if swallowed. Direct eye contact may cause moderate to severe irritation.

### Product Information

LD50 Oral	: > 3000 mg/kg (rat)
LD50 Dermal	: > 4000 mg/kg (rat)
LC50 Inhalation	: >2.10 mg/L 4 hr (rat)

#### Serious eye damage/eye irritation Skin corrosion/irritation Sensitization

Mildly irritating. Non-irritating. May cause sensitization by skin contact

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Flutriafol (76674-21-0)	= 1140 mg/kg(Rat)		
Propylene glycol (57-55-6)	20000 mg/kg (Rat)	20800 mg/kg (Rabbit)	
1,2 benzisothiazolin-3-one (2634-33-5)	= 1020 mg/kg (Rat)		

### Information on toxicological effects

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Symptoms	When fed to animals at high dosage, similar products caused salivation, depression of activity, muscle spasms, ataxia and increased body temperature.		
Delayed and immediate effects as w	ell as chronic effects from short and long-term exposure		
Mutagenicity	Flutriafol: Not mutagenic		
Carcinogenicity	Flutriafol: No evidence of carcinogenicity from animal studies		
Neurological effects	Flutriafol: No information available		
Reproductive toxicity	Flutriafol: No toxicity to reproduction in animal studies.		
STOT - single exposure STOT - repeated exposure	None known. Causes damage to organs through prolonged or repeated exposure. See listed target organs below.		
Target organ effects	Liver		
Neurological effects	Flutriafol: No information available		
Aspiration hazard	This product presents an aspiration pneumonia hazard.		

# 12. ECOLOGICAL INFORMATION

# **Ecotoxicity**

The product is toxic to fish, aquatic invertebrates and algae and harmful to bees. It is not considered harmful to birds and soil micro- and marcroorganisms.

Chemical name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
bentonite		96 h LC50: 8.0 - 19.0 g/L (Salmo	
1302-78-9		gairdneri) 96 h LC50: = 19000 mg/L	
E a ser a l da la seda		(Oncorhynchus mykiss) static	40 h E050 44 0 40 mm/
Formaldehyde		96 h LC50: 0.032 - 0.226 mL/L	48 h EC50: 11.3 - 18 mg/L
50-00-0		(Oncorhynchus mykiss)	(Daphnia magna) Static 48 h LC50:
		flow-through 96 h LC50: 100 - 136	= 2 mg/L (Daphnia magna)
		mg/L (Oncorhynchus mykiss) static 96 h LC50: 22.6 - 25.7 mg/L	
		(Pimephales promelas) flow-through	
		96 h LC50: 23.2 - 29.7 mg/L	
		(Pimephales promelas) static 96 h	
		LC50: = 1510 µg/L (Lepomis	
		macrochirus) static 96 h LC50: = 41	
		mg/L (Brachydanio rerio) static	
Propylene glycol	96 h EC50: = 19000 mg/L	96 h LC50: 41 - 47 mL/L	48 h EC50: > 1000 mg/L (Daphnia
57-55-6	(Pseudokirchneriella subcapitata)	(Oncorhynchus mykiss) static 96 h	magna) Static 24 h EC50: > 10000
		LC50: = 51400 mg/L (Pimephales	mg/L (Daphnia magna)
		promelas) static 96 h LC50: = 51600	
		mg/L (Oncorhynchus mykiss) static	
		96 h LC50: = 710 mg/L (Pimephales	
		promelas)	
Flutriafol	Green algae (Selenastrum	Rainbow trout (Salmo gairdneri), 96	Daphnids (Daphnia magna)
76674-21-0	capricornutum),	h-LC50: 61 mg/l	48 h-EC50: > 78 mg/l
	96-h IC50: 12 mg/l	28-day NOEC: 6.2 mg/l	21-day NOEC: 0.31 mg/l
	(Scenedesmus subspicatus), 72-h		
	IC50: 1.9 mg/l		
Sodium sulfate		96 h LC50: 13500 - 14500 mg/L	48 h EC50: = 2564 mg/L (Daphnia
7757-82-6		(Pimephales promelas) 96 h LC50:	magna) 96 h EC50: = 630 mg/L
		3040 - 4380 mg/L (Lepomis	(Daphnia magna)
		macrochirus) static 96 h LC50: =	
		13500 mg/L (Lepomis macrochirus)	
		96 h LC50: > 6800 mg/L	

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		(Pimephales promelas) static				
Naphthalene*	72 h EC50: = 0.4 mg/L	96 h LC50: 0.91 - 2.82 mg/L	48 h EC50: 1.09 - 3.4 mg/L			
91-20-3	(Skeletonema costatum)	(Oncorhynchus mykiss) static 96 h	(Daphnia magna) Static 48 h EC50:			
		LC50: 5.74 - 6.44 mg/L	= 1.96 mg/L (Daphnia magna) Flow			
		(Pimephales promelas) flow-through				
		96 h LC50: = 1.6 mg/L	(Daphnia magna)			
		(Oncorhynchus mykiss)				
		flow-through 96 h LC50: = 1.99				
		mg/L (Pimephales promelas) static				
		96 h LC50: = 31.0265 mg/L				
		(Lepomis macrochirus) static				
Persistence and degradability	Persistence and degradability Flutriafol: Not readily biodegradable. Persistent in soil.					
Bioaccumulation	Flutriafol: Not expected to bioaccumulate.					
Mobility	Flutriafol: Moderately mobile.					
13. DISPOSAL CONSIDERATIONS						

Waste disposal methods	Improper disposal of excess pesticide, spray mixture, or rinsate is prohibited. If these wastes cannot be disposed of by use according to label instructions, contact appropriate disposal authorities for guidance. Proper personal protective equipment, as described in Sections 7 and 8, must be worn while handling materials for waste disposal.
Contaminated Packaging	Containers must be disposed of in accordance with local, state and federal regulations. Refer to the product label for container disposal instructions.

# **14. TRANSPORT INFORMATION**

DOT	NOT REGULATED
TDG	UN3082
UN/ID no	Environmentally hazardous substance, liquid, n.o.s.
Proper Shipping Name	9
Hazard class	III
Packing Group	Flutriafol.
Marine Pollutant	UN3082, Environmentally hazardous substance, liquid, n.o.s. (flutriafol), 9, III, Marine
Description	Pollutant

# ICAO/IATA

UN/ID no	UN3082
Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s.
Hazard class	9
Packing Group	111
Description	UN3082, Environmentally hazardous substance, liquid, n.o.s. (flutriafol), 9, III, Marine
·	Pollutant

IMDG/IMO UN/ID no	UN3082
Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s.
Hazard class	9
Packing Group	III
EmS No.	F-A, S-F
Marine Pollutant	Flutriafol
Description	UN3082, Environmentally hazardous substance, liquid, n.o.s. (flutriafol), 9, III, Marine
	Pollutant

# 15. REGULATORY INFORMATION

# U.S. Federal Regulations

## <u>SARA 313</u>

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

### SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic health hazard	Yes
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

#### Clean Water Act

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Formaldehyde 50-00-0	100 lb			Х
Naphthalene* 91-20-3	100 lb	Х	Х	Х

## **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Formaldehyde 50-00-0	100 lb 45.4 kg	100 lb
Naphthalene* 91-20-3	100 lb 45.4 kg	

## FIFRA Information

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

WARNING

May be harmful if inhaled. May cause respiratory tract irritation.

Causes eye irritation. Contains material which can cause liver damage.

May be dangerous for the environment. This product is toxic to fish, aquatic invertebrates, and algae and harmful to bees.

# US State Regulations

## California Proposition 65

This product does not contain any Proposition 65 chemicals.

# U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Propylene glycol	Х		Х
57-55-6			

## International Inventories

Chemical name	TSCA (United States)	DSL (Canada)	EINECS/ELINC S (Europe)	ENCS (Japan)	China (IECSC)	KECL (Korea)	PICCS (Philippines)	AICS (Australia)
Propylene glycol 57-55-6	Х	Х	Х	Х	Х	Х	Х	Х
Alcohols, C13-15 Branched and Linear, Ethoxylated 157627-86-6	Х	Х	Х		X			
1,2 benzisothiazolin-3-one 2634-33-5	X	Х	Х	Х	X	Х	Х	Х

Mexico - Grade

Moderate risk, Grade 2

Chemical name	Mexico - Pollutant Release and Transfer Register - Reporting Emissions for Fabrication, Process or Use -Threshold Quantities	Pollutant Release and Transfer Register - Reporting Emissions - Threshold Quantities
Formaldehyde	100 2500 kg/yr	100 kg/yr

#### WHMIS Statement

This product has been classified in accordance with the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR.

#### **WHMIS Hazard Class**

D2B - Toxic materials



# **16. OTHER INFORMATION**

NFPAHealth Hazards 2Flammability 1Instability 0Special Hazards -HMISHealth Hazards 2*Flammability 1Physical hazard 0Personal Protection X					
HMIS Health Hazards 2* Flammability 1 Physical hazard 0 Personal Protection >	NFPA	Health Hazards 2	Flammability 1	Instability 0	Special Hazards -
	HMIS	Health Hazards 2*	Flammability 1	Physical hazard 0	Personal Protection X

\*Indicates a chronic health hazard.

Revision date:	2019-06-03
Reason for revision:	Initial Release

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End of Safety Data Sheet