



SAFETY DATA SHEET
F9944-74

SDS # : FO004276-A
Revision date: 2018-05-29
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Version 3

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name F9944-74
Product Code(s) FO004276-A
Recommended Use: Fungicide.
Restrictions on Use: Use as recommended by the label.

Manufacturer/Supplier

FMC Corporation
Agricultural Solutions
2929 Walnut Street
Philadelphia, PA 19104
General Information:
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E-Mail: msdsinfo@fmc.com

Telephone: 86 21 20675888
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Section 2: HAZARDS IDENTIFICATION

GHS - Classification

Skin sensitization	Category 1
Acute aquatic toxicity	Category 1
Chronic aquatic toxicity	Category 1

Label Elements



Signal Word

WARNING

Hazard Statements

H317 - May cause an allergic skin reaction
H410 - Very 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 soap and water
P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention
P321 - Specific treatment (see supplemental first aid instructions on this label)
P362 + P364 - Take off all contaminated clothing and wash it before reuse
P391 - Collect spillage

Precautionary Statements - Disposal

P501 - Dispose of contents/container according to label directions

Other Information

None known.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS-No	Weight %
Fluindapyr	1383809-87-7	41.8
Glycerin	56-81-5	5-10
Poloxamer	9003-11-6	1-5

Section 4: FIRST AID MEASURES

Inhalation	If experiencing any discomfort, immediately remove from exposure. Get medical attention. If discomfort increases, prepare for emergency action: artificial respiration or cardiopulmonary resuscitation as required, preferably by trained personnel, and transport the victim to an emergency care facility.
Skin Contact	Remove contaminated clothing and shoes. Immediately flush with plenty of water while removing contaminated clothing and/or shoes, and thoroughly wash with soap and water. If symptoms persist, call a physician.
Eye Contact	In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. Get medical attention immediately if irritation persists.
Ingestion	Drink plenty of water. If vomiting does occur, rinse mouth and drink fluids again. Do not induce vomiting or give anything by mouth to an unconscious person. Get medical attention.
Most important symptoms and effects, both acute and delayed	Allergic skin reactions.
Protection of first-aiders	Use personal protective equipment. See Section 8 for more detail.
Indication of immediate medical attention and special treatment needed, if necessary	Treat symptomatically.

Section 5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media	Avoid heavy hose streams. Dry powder, CO2 or water spray.
Unsuitable extinguishing media	No information available
Specific Hazards Arising from the Chemical	The essential breakdown products are volatile, toxic, irritant and inflammable compounds such as nitrogen oxides, hydrogen chloride, carbon monoxide, carbon dioxide and various chlorinated organic compounds.
Protective equipment and	Wear self-contained breathing apparatus and protective suit. Use water spray to cool fire exposed

precautions for firefighters

surfaces and protect personnel. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions

Isolate and post spill area. Wear personal protective equipment.

Other

For further clean-up instructions, call FMC Emergency Hotline number listed in Section 1 "Product and Company Identification" above.

Environmental Precautions

Keep out of waterways. Keep people and animals away from and upwind of spill/leak. Keep material out of lakes, streams, ponds, and sewer drains.

Methods for Containment

If appropriate, surface water drains should be covered. Minor spills on the floor or other impervious surface should immediately be swept up or preferably vacuumed up using equipment with high efficiency final filter. Transfer to suitable containers. Clean area with detergent and much water. Absorb wash liquid onto inert absorbent such as universal binder, Fuller's earth, bentonite or other absorbent clay and collect in suitable containers. The used containers should be properly closed and labelled.

Methods for cleaning up

Pick up and transfer to properly labeled containers.

Section 7: HANDLING AND STORAGE

Handling

Avoid contact with skin, eyes and clothing. Avoid breathing vapors or mists. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use. Do not discharge to the environment. Do not contaminate water when disposing of equipment wash waters. Collect all waste material and remains from cleaning equipment, etc., and dispose of as hazardous waste. See section 13 for disposal.

Storage

Keep in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Keep out of reach of children and animals. Keep/store only in original container.

Materials to avoid

Strong oxidizing agents, Strong acids, strong bases.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits

Component	China	Japan	Korea	Australia	Taiwan
Glycerin 56-81-5 (5-10)			TWA: 10 mg/m ³	TWA 10 mg/m ³	

Engineering measures

Ensure adequate ventilation, especially in confined areas.

Personal protective equipment**Respiratory Protection**

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.

Hand Protection

Wear chemical protective gloves made of materials such as nitrile or neoprene.

Eye/Face Protection

For dust, splash, mist or spray exposure, wear chemical protective goggles. Maintain eye wash fountain and quick-drench facilities in work area.

Skin and Body Protection

Wear protective gloves/ protective clothing.

Hygiene measures

Must have clean water available for washing in case of eye or skin contamination. Wash skin before eating, drinking, chewing gum, or using snuff. Shower after work. Remove

contaminated clothing and wash before reuse. Wash all work clothing separately; do not mix with household laundry.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Appearance	Light brown, Liquid suspension
Odor	No information available
Color	No information available
Odor threshold	No information available
pH	6-9
Melting point/freezing point	No information available
Boiling Point/Range	No information available
Flash point	> 150 °C
Evaporation Rate	No information available
Flammability (solid, gas)	Not applicable
Flammability Limit in Air	
Upper flammability limit:	No information available
Lower flammability limit:	No information available
Vapor pressure	No information available
Vapor density	No information available
Specific gravity	No information available
Water solubility	Dispersible in water
Solubility(ies)	No information available
Partition coefficient	logKow >3 (based on active ingredient)
Autoignition temperature	No information available
Decomposition temperature	No information available
Viscosity, kinematic	No information available
Viscosity, dynamic	No information available
Oxidizing properties	Non-oxidizing
Density	1.12 @ 20°C
Bulk density	No information available

Section 10: STABILITY AND REACTIVITY

Reactivity	None under normal use conditions
Stability	Stable under recommended storage conditions
Hazardous reactions	None under normal processing.
Hazardous polymerization	Hazardous polymerization does not occur.
Conditions to Avoid	Heating can release hazardous gases.
Incompatible products	Strong oxidizing agents, Strong acids, strong bases.

Hazardous Decomposition Products Thermal decomposition can lead to release of irritating gases and vapors.

Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Numerical measures of toxicity - Product Information

LD50 Oral	> 2000 mg/kg (rat)
LD50 Dermal	> 2000 mg/kg (rat)
LC50 Inhalation	> 5 mg/L 4 hr (rat)
Skin corrosion/irritation	Not expected to be irritating to skin.
Serious eye damage/eye irritation	May cause slight irritation.
Sensitization	May cause sensitization by skin contact.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Mutagenicity	The product contains no ingredients known to be mutagenic.
Carcinogenicity	Contains no ingredient listed as a carcinogen.
Reproductive toxicity	Not expected to have reproductive effects.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Aspiration hazard	The product does not present an aspiration pneumonia hazard.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

Birds:	Quail F9944-74: LD50(7d) > 2000 mg a.i. /kg	Daphnia:	Daphnia magna F9944-74: EC50(48h)= 1.89 mg a.i./L; 1.72 mg a.i./L (measured concentration)
Bees:	F9944-74: LD50(48h), oral > 100 µg a.i./Bee F9944-74: LD50(48h), contact > 100 µg a.i./Bee	Fish:	Zebrafish F9944-74: LC50(96h) = 0.530 mg a.i./L; 0.497 mg a.i./L (measured concentration)
Algae:	Selenastrum capricornutum F9944-74: EC50(72h) = 8.33 mg a.i./L ; 7.82 mg a.i./L (measured concentration)	Earthworms:	Eisenia foetida F9944-74: LC50(14d) > 100 mg a.i./kg soil
Persistence and degradability	Fluindapyr: Not readily biodegradable.		
Bioaccumulation	Fluindapyr: The substance has a potential for bioconcentration. See section 9 for n-octanol/water partition coefficient.		
Mobility	Fluindapyr: Low mobility; not expected to reach groundwater.		
Other Adverse Effects	No information available.		

Section 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.

Section 14: TRANSPORT INFORMATION

IMDG/IMO

UN/ID no	3082
Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s. (3-(difluoro-methyl)-N-(7-fluoro-1,1,3-trimethyl-2,3-dihydro-1H-inden-4-yl)-1-methyl-1H-pyrazole-4-carboxamide)
Hazard class	9
Packing Group	III
Marine Pollutant	Yes

ICAO/IATA

UN/ID no 3082
Proper Shipping Name Environmentally hazardous substance, liquid, n.o.s.
 (3-(difluoro-methyl)-N-(7-fluoro-1,1,3-trimethyl-2,3-dihydro-1H-inden-4-yl)-1-methyl-1H-pyrazole-4-carboxamide)
Hazard class 9
Packing Group III
Marine Pollutant Yes

Section 15: REGULATORY INFORMATION

International Inventories

A food, food additive, drug, cosmetic, or device, when manufactured, processed or distributed in commerce for use as a food, food additive, drug, cosmetic, or device may not be subject to local notification requirements. Check local regulations for more information.

Chemical name	TSCA (United States)	DSL (Canada)	EINECS/ELINCS (Europe)	ENCS (Japan)	China (IECSC)	KECL (Korea)	PICCS (Philippines)	AICS (Australia)
Glycerin 56-81-5	X	X	X	X	X	X	X	X
Poloxamer 9003-11-6	X	X		X	X	X	X	X

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

Section 16: OTHER INFORMATION

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End of Safety Data Sheet