

ILEVO™

Version 5.0 / USA 102000027535

1/10 Revision Date: 02/11/2015 Print Date: 02/11/2015

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifier		
Trade name	ILEVO™	
Product code (UVP)	80966261	
SDS Number	102000027535	
EPA Registration No.	264-1167	
Relevant identified uses of th	ne substance or mixture and uses advised against	
Use	Seed treatment Fungicide	
Restrictions on use	See product label for restrictions.	
Information on manufacturer		
	Bayer CropScience 2 T.W. Alexander Drive Research Triangle PK, NC 27709 United States	
Emergency telephone no.		
Emergency Telephone Number (24hr/ 7 days)	1-800-334-7577	
Product Information Telephone Number	1-866-99BAYER (1-866-992-2937)	
SDS Information or Request	SDSINFO.BCS-NA@bayer.com	

SECTION 2: HAZARDS IDENTIFICATION

Classification in accordance with regulation HCS 29CFR §1910.1200 Acute toxicity (Oral): Category 4



Signal word: Warning

Hazard statements Harmful if swallowed.

Precautionary statements

Wash thoroughly after handling. Do not eat, drink or smoke when using this product. IF SWALLOWED: Call a POISON CENTER/doctor/physician if you feel unwell.

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Rinse mouth. Dispose of contents/container in accordance with local regulation.

Other hazards

No other hazards known.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Component Name Fluopyram Glycerine **CAS-No.** 658066-35-4 56-81-5 Concentration % by weight 48.40 8.00

SECTION 4: FIRST AID MEASURES

Description of first aid measures

•		
General advice	When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.	
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 physician or poison control center immediately.	
Skin contact	Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water for at least 15 minutes. Call a physician or poison control center immediately.	
Eye contact	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a physician or poison control center immediately.	
Ingestion	Call a physician or poison control center immediately. Rinse out mouth and give water in small sips to drink. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Do not leave victim unattended.	
Most important symptoms a	nd effects, both acute and delayed	
Symptoms	To date no symptoms are known.	
Indication of any immediate medical attention and special treatment needed		
Treatment	Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended. There is no specific antidote.	



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SECTION 5: FIREFIGHTING MEASURES

Extinguishing media	
Suitable	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable	High volume water jet
Special hazards arising from the substance or mixture	In the event of fire the following may be released:, Hydrogen chloride (HCI), Hydrogen cyanide (hydrocyanic acid), Hydrogen fluoride, Carbon monoxide (CO), Nitrogen oxides (NOx)
Advice for firefighters	
Special protective equipment for fire-fighters	Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.
Flash point	> 91 °C No flash point - Determination conducted up to the boiling point.
Autoignition temperature	420 °C / 788 °F
Lower explosion limit	no data available
Upper explosion limit	no data available
Explosivity	Not explosive

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures		
Precautions	Avoid contact with spilled product or contaminated surfaces. Use personal protective equipment.	
Methods and materials for containment and cleaning up		
Methods for cleaning up	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Collect and transfer the product into a properly labelled and tightly closed container. Clean contaminated floors and objects thoroughly, observing environmental regulations.	
Additional advice	Do not allow to enter soil, waterways or waste water canal. Do not allow product to contact non-target plants.	
Reference to other sections	Information regarding safe handling, see section 7. Information regarding personal protective equipment, see section 8. Information regarding waste disposal, see section 13.	

SECTION 7: HANDLING AND STORAGE

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Advice on safe handling	Avoid contact with skin, eyes and clothing. Handle and open container in a manner as to prevent spillage. Use only in area provided with appropriate exhaust ventilation.
Hygiene measures	Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics. Remove Personal Protective Equipment (PPE) immediately after handling this product. Before removing gloves clean them with soap and water. Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean clothing.
Conditions for safe storage,	including any incompatibilities
Requirements for storage areas and containers	Store in a cool, dry place and in such a manner as to prevent cross contamination with other crop protection products, fertilizers, food, and feed. Store in original container. Store in a place accessible by authorized persons only. Protect from freezing.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Components	CAS-No.	Control parameters	Update	Basis
Fluopyram	658066-35-4	0.34 mg/m3 (OES BCS)		OES BCS*
1,2-Propanediol (Vapor.)	57-55-6	1000ug/m3 (ST ESL)	02 2013	TX ESL
1,2-Propanediol (Vapor.)	57-55-6	500ppb (ST ESL)	02 2013	TX ESL
1,2-Propanediol (Vapor.)	57-55-6	100ug/m3 (AN ESL)	02 2013	TX ESL
1,2-Propanediol (Vapor.)	57-55-6	50ppb (AN ESL)	02 2013	TX ESL
1,2-Propanediol (Aerosol.)	57-55-6	10 mg/m3 (TWA)	2010	WEEL
Glycerine (Respirable fraction.)	56-81-5	5 mg/m3 (PEL)	02 2006	OSHA Z1
Glycerine (Total dust.)	56-81-5	15 mg/m3 (PEL)	02 2006	OSHA Z1
Glycerine (Total dust.)	56-81-5	10 mg/m3 (TWA)	1989	OSHA Z1A
Glycerine (Respirable fraction.)	56-81-5	5 mg/m3 (TWA)	1989	OSHA Z1A
Glycerine (Total dust and mist.)	56-81-5	10 mg/m3 (TWA)	06 2008	TN OEL
Glycerine (Respirable fraction and dust or fume.)	56-81-5	5 mg/m3 (TWA)	06 2008	TN OEL



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Glycerine (Vapor.)	56-81-5	1000ug/m3 (ST ESL)	02 2013	TX ESL
Glycerine (Particulate.)	56-81-5	50ug/m3 (ST ESL)	02 2013	TX ESL
Glycerine (Vapor.)	56-81-5	100ug/m3 (AN ESL)	02 2013	TX ESL
Glycerine (Particulate.)	56-81-5	5ug/m3 (AN ESL)	02 2013	TX ESL

*OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"

Exposure controls

Personal protective equipment

In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

Respiratory protection	When respirators are required, select NIOSH approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industry recommendations.
Hand protection	Chemical resistant nitrile rubber gloves
Eye protection	Safety glasses with side-shields
Skin and body protection	Wear long-sleeved shirt and long pants and shoes plus socks.
General protective measures	Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and warm/tepid water. Keep and wash PPE separately from other laundry.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	white to beige
Physical State	suspension
Odor	characteristic
Odour Threshold	no data available
рН	5.0 - 9.0 at 100 % (23 °C)
Vapor Pressure	no data available
Vapor Density (Air = 1)	no data available
Density	1.24 g/cm3 at 20 °C
Evapouration rate	no data available
Boiling Point Melting / Freezing Point	no data available no data available
Water solubility	dispersible
Minimum Ignition Energy	not applicable

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Decomposition temperature	no data available
Partition coefficient: n- octanol/water	no data available
Viscosity	400 - 900 mPa.s at 25 °C 130 - 250 mPa.s at 20 °C Velocity gradient 20 /s 50 - 120 mPa.s at 20 °C Velocity gradient 100 /s
Flash point	> 91 °C No flash point - Determination conducted up to the boiling point.
Autoignition temperature	420 °C / 788 °F
Lower explosion limit	no data available
Upper explosion limit	no data available
Explosivity	Not explosive

SECTION 10: STABILITY AND REACTIVITY

Reactivity		
Thermal decomposition	no data available	
Chemical stability	Stable under recommended storage conditions.	
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.	
Conditions to avoid	freezing	
Incompatible materials	no data available	
Hazardous decomposition products	No decomposition products expected under normal conditions of use.	

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes	Eye contact, Skin contact, Inhalation, Ingestion	
Immediate Effects Eye	May cause eye irritation.	
Skin	Harmful if absorbed through skin.	
Ingestion	Harmful if swallowed.	
Inhalation	May be harmful if inhaled.	
Information on toxical price official		

Information on toxicological effects

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Acute oral toxicity	LD50 (rat) 1,750 mg/kg
Acute inhalation toxicity	LC50 (rat) > 5.11 mg/l Exposure time: 4 h Determined in the form of liquid aerosol. Highest attainable concentration.
Acute dermal toxicity	LD50 (rat) > 5,000 mg/kg
Skin irritation	No skin irritation (rabbit)
Eye irritation	No eye irritation (rabbit)
Sensitisation	Non-sensitizing. (mouse) OECD Test Guideline 429, local lymph node assay (LLNA)

Assessment repeated dose toxicity

Fluopyram caused specific target organ toxicity in experimental animal studies in the following organ(s): liver.

Assessment Mutagenicity

Fluopyram was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

Assessment Carcinogenicity

Fluopyram caused an increased incidence of tumours in rats in the following organ(s): liver. Fluopyram caused an increased incidence of tumours in mice in the following organ(s): Thyroid. The tumours seen with Fluopyram were caused through a non-genotoxic mechanism, which is not relevant at low doses.

ACGIH

None.

NTP

None.

IARC

None.

OSHA

None.

Assessment toxicity to reproduction

Fluopyram caused reproduction toxicity in a two-generation study in rats only at dose levels also toxic to the parent animals. The reproduction toxicity seen with Fluopyram is related to parental toxicity.

Assessment developmental toxicity

Fluopyram caused developmental toxicity only at dose levels toxic to the dams. The developmental effects seen with Fluopyram are related to maternal toxicity.

Further information

Acute toxicity studies have been bridged from a similar formulation(s). The non-acute information pertains to the active ingredient(s).

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SECTION 12: ECOLOGICAL INFORMATION

Toxicity to fish	LC50 (Oncorhynchus mykiss (rainbow trout)) > 2 mg/l Exposure time: 96 h The value mentioned relates to the active ingredient fluopyram. No acute toxicity was observed at its limit of water solubility.
Toxicity to aquatic invertebrates	EC50 (Daphnia magna (Water flea)) > 20 mg/l Exposure time: 48 h The value mentioned relates to the active ingredient fluopyram. No acute toxicity was observed at its limit of water solubility.
Toxicity to aquatic plants	EC50 (Pseudokirchneriella subcapitata) 8.9 mg/l Growth rate; Exposure time: 72 h The value mentioned relates to the active ingredient fluopyram.
Biodegradability	Fluopyram: ; not rapidly biodegradable
Кос	Fluopyram: Koc: 279
Bioaccumulation	Fluopyram: Bioconcentration factor (BCF) 18; Does not bioaccumulate.
Mobility in soil	Fluopyram: Moderately mobile in soils
Environmental precautions	Do not allow to get into surface water, drains and ground water. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water. Apply this product as specified on the label.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Product	Dispose in accordance with all local, state/provincial and federal regulations. Do not contaminate water, food, or feed by disposal. Do not empty into drains. Follow advice on product label and/or leaflet.
Contaminated packaging	Consult state and local regulations regarding the proper disposal of container. Do not re-use empty containers. Triple rinse containers. Follow advice on product label and/or leaflet.
RCRA Information	Characterization and proper disposal of this material as a special or hazardous waste is dependent upon Federal, State and local laws and are the user's responsibility. RCRA classification may apply.



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SECTION 14: TRANSPORT INFORMATION

49CFR	Not dangerous goods / not hazardous material		
IMDG UN number Class Packaging group Marine pollutant Proper shipping name	3082 9 III YES ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (FLUOPYRAM SOLUTION)		
IATA UN number Class Packaging group Environm. Hazardous Mark Proper shipping name	3082 9 III YES ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.		

This transportation information is not intended to convey all specific regulatory information relating to this product. It does not address regulatory variations due to package size or special transportation requirements.

(FLUOPYRAM SOLUTION)

SECTION 15: REGULATORY INFORMATION

EPA Registration No. US Federal Regulations	264-1167				
TSCA list Glycerine	56-81-5				
		b) Export Notification (40 CFR 707, Subpt D))		
SARA Title III - Section 302 -	Notification and Informatio	ion			
None.					
SARA Title III - Section 313 - Toxic Chemical Release Reporting None.					
US States Regulatory Report	ting				
CA Prop65					
This product does not contain any substances known to the State of California to cause cancer.					
This product does not contain any substances known to the State of California to cause reproductive harm.					
US State Right-To-Know Ing Glycerine	redients 56-81-5	MN			
Canadian Regulations					



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Canadian Domestic Substance List Glycerine

56-81-5

Environmental CERCLA None. Clean Water Section 307 Priority Pollutants None. Safe Drinking Water Act Maximum Contaminant Levels None.

International Regulations European Inventory of Existing Commercial Substances (EINECS) Glycerine 56-81-5

EPA/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 required on the pesticide label:

Signal word:Caution!Hazard statements:Harmful if swallowed, inhaled or absorbed through the skin.
Avoid contact with skin, eyes and clothing.
Avoid breathing spray mist.
Remove and wash contaminated clothing before re-use.

SECTION 16: OTHER INFORMATION

NFPA 704 (National Fire Protection Association):
Health - 1Others - noneHealth - 1Flammability - 2Instability - 0Others - noneHMIS (Hazardous Materials Identification System, based on the Health - 1Flammability - 2Physical Hazard - 0PPE -

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

Reason for Revision: The following sections have been revised: Section 2: Hazards Identification. Section 5: Fire Fighting Measures. Section 14: Transport Information.

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