

ALLEGIANCE® FL

Version 2.0 / CDN 102000027133

Revision Date: 08/05/2020 Print Date: 08/06/2020

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

Product identifier

Trade name ALLEGIANCE® FL

Product code (UVP) 84961019

SDS Number 102000027133

PCP Registration No. 26674

Relevant identified uses of the substance or mixture and uses advised against

Use Fungicide, Seed treatment

Restrictions on useSee product label for restrictions.

Information on supplier

Supplier Bayer CropScience Inc

#200, 160 Quarry Park Blvd, SE Calgary, Alberta T2C 3G3

Canada

Responsible Department Email: SDSINFO.BCS-NA@bayer.com

Emergency telephone no.

Emergency Telephone Number (24hr/ 7 days) 1-800-334-7577

Product Information Telephone Number

1-888-283-6847

SECTION 2: HAZARDS IDENTIFICATION

Classified in accordance with Part 2 of the Hazardous Products Regulations

Eye irritation: Category 2B

Acute toxicity(Inhalation): Category 4

Labelling in accordance with Part 3 of the Hazardous Products Regulations



Signal word: Warning Hazard statements

Causes eye irritation. Harmful if inhaled.



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Precautionary statements

Wash thoroughly after handling. Avoid breathing dust, mist, spray.

Use only outdoors or in a well-ventilated area.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/ attention.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER/doctor/physician if you feel unwell.

Hazards Not Otherwise Classified (HNOC)

No physical hazards not otherwise classified. No health hazards not otherwise classified.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Component NameCAS-No.Concentration % by weightMetalaxyl57837-19-128.35Distillates (petroleum), hydrotreated heavy naphthenic;64742-52-58.0

Baseoil -- unspecified

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 and effects, both acute and delayed

Symptoms To date no symptoms are known.

Indication of any immediate medical attention and special treatment needed



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Treatment Appropriate supportive and symptomatic treatment as indicated by the

patient's condition is recommended.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media

Foam, Dry chemical, Carbon dioxide (CO2) Suitable

Unsuitable High volume water jet

Special hazards arising from the substance or

mixture

Dangerous gases are evolved in the event of a fire.

Advice for firefighters

Special protective

equipment for firefighters

Firefighters should wear NIOSH approved self-contained breathing

apparatus and full protective clothing.

Further information Keep out of smoke. Fight fire from upwind position. Cool closed

containers exposed to fire with water spray. Do not allow run-off from

fire fighting to enter drains or water courses.

Flash point No data available **Auto-ignition temperature** No data available Lower explosion limit No data available Upper explosion limit No data available

Explosivity Not applicable

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Precautions Keep unauthorized people away. Isolate hazard area. Avoid contact

with spilled product or contaminated surfaces.

Methods and materials for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid Methods for cleaning up

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 Use personal protective equipment. If the product is accidentally

spilled, do not allow to enter soil, waterways or waste water canal.



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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

Precautions for safe handling

Advice on safe handling 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. 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 and out of the reach of children,

preferably in a locked storage area.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Components	CAS-No.	Control parameters	Update	Basis
Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil unspecified (Mist.)	64742-52-5	5 mg/m3 (TWA)	07 2009	CAD AB OEL
Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil unspecified (Mist.)	64742-52-5	10 mg/m3 (STEL)	07 2009	CAD AB OEL
Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil unspecified (Mist.)	64742-52-5	1 mg/m3 (TWA)	05 2013	CAD BC OEL
Distillates (petroleum),	64742-52-5	0.2 mg/m3	05 2013	CAD BC



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hydrotreated heavy naphthenic; Baseoil unspecified (Mist.)		(TWA)		OEL
Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil unspecified (Inhalable fraction.)	64742-52-5	5 mg/m3 (TWA)	03 2014	CAD MB OEL
Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil unspecified (Inhalable fraction.)	64742-52-5	5 mg/m3 (TWA)	06 2015	CAD ON OEL
Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil unspecified	64742-52-5	10 mg/m3 (15 MIN ACL)	05 2009	CAD SK OEL
Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil unspecified	64742-52-5	5 mg/m3 (8 HR ACL)	05 2009	CAD SK OEL
Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil unspecified	64742-52-5	10 mg/m3 (STEL)	09 2017	OEL (QUE)
(Mist.) Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil unspecified (Mist.)	64742-52-5	5 mg/m3 (TWA)	09 2017	OEL (QUE)

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.



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Hand protection Chemical resistant nitrile rubber gloves

Eye protection Tightly fitting safety goggles

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

Information on basic physical and chemical properties

Form Liquid

Colour light brown

Odour musty

Odour Threshold No data available

Hq 5.0 - 8.0 (100 %) (23 °C)

Melting point/range No data available

Boiling Point

No data available

Flash point No data available **Flammability** No data available **Auto-ignition temperature** No data available Minimum ignition energy Not applicable No data available

Self-accelarating

decomposition temperature

(SADT)

Upper explosion limit No data available Lower explosion limit No data available Vapour pressure No data available **Evaporation rate** No data available Relative vapour density No data available Relative density No data available

ca. 1.10 g/cm³ (20 °C) Density

Water solubility dispersible

Partition coefficient: n-

octanol/water

No data available



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Viscosity, dynamic 250 - 600 mPa.s (25 °C)

160 - 300 mPa.s (20 °C) Velocity gradient 20 /s 75 - 115 mPa.s (20 °C) Velocity gradient 100 /s

Viscosity, kinematic

Oxidizing properties

No data available

Explosivity

Not applicable

SECTION 10: STABILITY AND REACTIVITY

Reactivity

Thermal decomposition Stable under normal conditions.

Chemical stability Stable under recommended storage conditions.

Possibility of hazardous

reactions

No hazardous reactions when stored and handled according to

prescribed instructions.

Conditions to avoid Extremes of temperature and direct sunlight.

Incompatible materials Strong acids, Strong bases, Oxidizing agents

Hazardous decomposition

products

No decomposition products expected under normal conditions of use.

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes Skin contact, Eye contact, Ingestion, Inhalation

Immediate Effects

Eye Moderate eye irritation.

Skin Harmful if absorbed through skin. May cause skin irritation.

Ingestion Harmful if swallowed.

Inhalation May be harmful if inhaled.

Information on toxicological effects

Acute oral toxicity LD50 (Rat) > 2,900 mg/kg

Acute inhalation toxicity LC50 (Rat) > 2.67 mg/l

Exposure time: 4 h

Determined in the form of liquid aerosol.

Acute dermal toxicity LD50 (Rabbit) > 2,000 mg/kg

Skin corrosion/irritation No skin irritation (Rabbit)



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Serious eye damage/eye

irritation

Moderate eye irritation. (Rabbit)

Respiratory or skin

sensitisation

Skin: Non-sensitizing. (Guinea pig)

Assessment STOT Specific target organ toxicity - single exposure

Metalaxyl: Based on available data, the classification criteria are not met.

Assessment STOT Specific target organ toxicity - repeated exposure

Metalaxyl did not cause specific target organ toxicity in experimental animal studies.

Assessment mutagenicity

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

Assessment carcinogenicity

Metalaxyl was not carcinogenic in lifetime feeding studies in rats and mice.

ACGIH

Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil unspecified	64742-52-5	Group A4
NTP		
Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil unspecified	64742-52-5	1980
IARC		
Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil unspecified	64742-52-5	Overall evaluation: 3
Distillates (petroleum), hydrotreated heavy	64742-52-5	Overall evaluation:

OSHA

None.

Assessment toxicity to reproduction

naphthenic; Baseoil -- unspecified

Metalaxyl did not cause reproductive toxicity in a multi-generation study in rats.

Assessment developmental toxicity

Metalaxyl did not cause developmental toxicity in rats and rabbits.

Aspiration hazard

Based on available data, the classification criteria are not met.

Further information

Only acute toxicity studies have been performed on the formulated product.

The non-acute information pertains to the active ingredient(s).



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SECTION 12: ECOLOGICAL INFORMATION

Toxicity to fish LC50 (Lepomis macrochirus (Bluegill sunfish)) > 100 mg/l

Exposure time: 96 h

The value mentioned relates to the active ingredient metalaxyl.

LC50 (Oncorhynchus mykiss (rainbow trout)) > 100 mg/l

Exposure time: 96 h

The value mentioned relates to the active ingredient metalaxyl.

Toxicity to aquatic LC50 (Daphnia (water flea)) > 28 mg/l

invertebrates Exposure time: 48 h

The value mentioned relates to the active ingredient metalaxyl.

EC50 (Mysidopsis bahia (mysid shrimp)) 25 mg/l

Exposure time: 96 h

The value mentioned relates to the active ingredient metalaxyl.

EC50 (Oyster) 4.6 mg/l Exposure time: 96 h

The value mentioned relates to the active ingredient metalaxyl.

Toxicity to aquatic plants IC50 (Algae) 33 mg/l

Exposure time: 5 Days

The value mentioned relates to the active ingredient metalaxyl.

Biodegradability Metalaxyl:

Not rapidly biodegradable

Koc Metalaxyl: Koc: 163

Bioaccumulation Metalaxyl: Bioconcentration factor (BCF) < 7

Does not bioaccumulate.

Mobility in soil Metalaxyl: Moderately mobile in soils

Results of PBT and vPvB assessment

PBT and vPvB assessment Metalaxyl: This substance is not considered to be persistent,

bioaccumulative and toxic (PBT). This substance is not considered to be

very persistent and very bioaccumulative (vPvB).

Environmental precautions Do not apply directly to water, to areas where surface water is present

or to intertidal areas below the mean high water mark.

Do not contaminate surface or ground water by cleaning equipment or

disposal of wastes, including equipment wash water.

Do not apply when weather conditions favor runoff or drift.

Apply this product as specified on the label.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods



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Product Dispose in accordance with all local, state/provincial and federal

regulations.

Contaminated packaging Do not re-use empty containers.

Consult state and local regulations regarding the proper disposal of

container.

Follow advice on product label and/or leaflet.

SECTION 14: TRANSPORT INFORMATION

According to national and international transport regulations this material is not classified as dangerous goods / hazardous material.

Freight Classification: INSECTICIDES OR FUNGICIDES, N.O.I., OTHER THAN

POISON

SECTION 15: REGULATORY INFORMATION

PCP Registration No. 26674

PMRA Information:

Read the label, authorized under the Pest Control Products Act, prior to using or handling the pest control product.

This chemical is a pest control product regulated by Health Canada Pest Management Regulatory Agency and is subject to certain labelling requirements under the Pest Control Products Act. These requirements differ from the classification criteria and hazard information required for GHS-consistent safety data sheets. The following is the hazard information required on the pest control product label:

Signal word: Warning!

Hazard statements: Causes skin irritation.

Causes eye irritation.

There are Canada-specific environmental requirements for handling, use, and disposal of this pest control product that are indicated on the label.

SECTION 16: OTHER INFORMATION

Abbreviations and acronyms

49CFR Code of Federal Regulations, Title 49
ACGIH US. ACGIH Threshold Limit Values

ATE Acute toxicity estimate

CAS-Nr. Chemical Abstracts Service number



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CERCLA Comprehensive Environmental Response, Compensation, and Liability Act

EINECS European inventory of existing commercial substances

ELINCS European list of notified chemical substances IARC International Agency for Research on Cancer IATA International Air Transport Association IMDG International Maritime Dangerous Goods

N.O.S. Not otherwise specified

NTP US. National Toxicology Program (NTP) Report on Carcinogens
OECD Organization for Economic Co-operation and Development

TDG Transportation of Dangerous Goods

TWA Time weighted average

UN United Nations

WHO World health organisation

NFPA 704 (National Fire Protection Association):

Health - 2 Flammability - 1 Instability - 0 Others - none

HMIS (Hazardous Materials Identification System, based on the Third Edition Ratings Guide)

Health - 1 Flammability - 1 Physical Hazard - 0 PPE -

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 3: Composition / Information on Ingredients. Section 8: Exposure Controls / Personal Protection. Section 12. Ecological information. Section 15: Regulatory information. Reviewed and updated for general editorial purposes.

Revision Date: 08/04/2020

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