

VORTEX® SEED TREATMENT FUNGICIDE

Version 5.0 / USA Revision Date: 08/14/2020 102000012788 Print Date: 08/15/2020

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

Product identifier

Trade name VORTEX® SEED TREATMENT FUNGICIDE

Product code (UVP) 06535216

SDS Number 102000012788

EPA Registration No. 264-988

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 LP

800 North Lindbergh Blvd. St. Louis, MO 63167

USA

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

1-866-99BAYER (1-866-992-2937)

SECTION 2: HAZARDS IDENTIFICATION

Classification in accordance with regulation HCS 29CFR §1910.1200

Acute toxicity(Inhalation): Category 4

Labelling in accordance with regulation HCS 29CFR §1910.1200



Signal word: Warning

Hazard statements

Harmful if inhaled.

Precautionary statements Avoid breathing mist/ spray.



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Use only outdoors or in a well-ventilated area.

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 Name	CAS-No.	Concentration % by weight
Ipconazole	125225-28-7	40.7
Distillates (petroleum), hydrotreated heavy naphthenic;	64742-52-5	7.5
Baseoil unspecified		
Sodium lignosulphonate	8061-51-6	1.8

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

Risks Contains hydrocarbon solvents. May pose an aspiration pneumonia

hazard.

Treatment Appropriate supportive and symptomatic treatment as indicated by the

patient's condition is recommended.



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SECTION 5: FIREFIGHTING MEASURES

Extinguishing media

Suitable Foam, Carbon dioxide (CO2), Dry chemical, Water spray

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

In the event of fire and/or explosion do not breathe fumes. Firefighters should wear NIOSH approved self-contained breathing apparatus and

full protective clothing.

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

containers exposed to fire with water spray. Contain the spread of the fire-fighting media. Do not allow run-off from fire fighting to enter drains

or water courses.

Flash point 93.4 °C

Auto-ignition temperatureNo data availableLower explosion limitNo data availableUpper explosion limitNo data availableExplosivityNot applicable

Dust explosion class 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

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 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 Use only in area provided with appropriate exhaust ventilation. Handle

and open container in a manner as to prevent spillage.

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	64742-52-5	1,600 mg/m3/400 ppm (TWA)	1989	OSHA Z1A
Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil unspecified (Mist.)	64742-52-5	5 mg/m3 (TWA)	1989	OSHA Z1A
Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil unspecified (Inhalable fraction.)	64742-52-5	5 mg/m3 (TWA)	03 2014	ACGIH
Distillates (petroleum), hydrotreated heavy	64742-52-5	1,800 mg/m3 (Ceil_Time)	2010	NIOSH



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naphthenic; Baseoil unspecified				
Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil unspecified	64742-52-5	10 mg/m3 (STEL)	2010	NIOSH
(Mist.)				
Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil unspecified	64742-52-5	350 mg/m3 (REL)	2010	NIOSH
Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil unspecified	64742-52-5	5 mg/m3 (REL)	2010	NIOSH
(Mist.) Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil unspecified (Mist.)	64742-52-5	5 mg/m3 (PEL)	02 2006	OSHA Z1
Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil unspecified	64742-52-5	2,000 mg/m3/500 ppm (PEL)	02 2006	OSHA Z1
Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil unspecified	64742-52-5	5 mg/m3 (TWA)	06 2008	TN OEL
(Mist.) Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil unspecified	64742-52-5	1,600 mg/m3/400 ppm (TWA PEL)	08 2010	US CA OEL
Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil unspecified	64742-52-5	5 mg/m3 (TWA PEL)	08 2010	US CA OEL
(Mist.)				



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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 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 suspension

Colourlight tan to brownOdourcharacteristic

Odour Threshold No data available

pH 7.5 - 9.0 (100 %) (23 °C)

Melting point/range No data available

Boiling Point

No data available

Flash point 93.4 °C

Flammability

Auto-ignition temperature

Minimum ignition energy

Self-accelarating

No data available

Not applicable

No data available

decomposition temperature

(SADT)

Upper explosion limitNo data availableLower explosion limitNo data availableDust explosion classNot applicable.Vapour pressureNo data availableEvaporation rateNo data available



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Relative vapour density No significant volatility.

Relative density No data available

Density ca. 1.11 g/cm³ (20 °C)

Water solubility dispersible

Partition coefficient: n-

octanol/water

Ipconazole: log Pow: 4.49 (20 °C)

Viscosity, dynamic 300 - 500 mPa.s (25 °C)

Viscosity, kinematic

Oxidizing properties

No data available

No data available

No data available

Not applicable

Other information Further safety related physical-chemical data are not known.

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.

freezing

Incompatible materials No incompatible materials known.

Hazardous decomposition

products

Hydrogen chloride (HCI) Nitrogen oxides (NOx)

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes Ingestion, Inhalation, Eye contact, Skin contact

Immediate Effects

Eye May cause mild irritation to eyes.

SkinMay cause slight irritation.IngestionHarmful if swallowed.InhalationMay be harmful if inhaled.

Information on toxicological effects



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Acute oral toxicity LD50 (male Rat) 5,284 mg/kg

LD50 (female Rat) 3,666 mg/kg

Acute inhalation toxicity LC50 (Rat) > 2.59 mg/l

Exposure time: 4 h

Acute dermal toxicity LD50 (Rabbit) > 5,000 mg/kg

Skin corrosion/irritation slight irritation

Serious eye damage/eye

irritation

Minimally irritating.

Respiratory or skin

sensitisation

Skin: Non-sensitizing.

Assessment STOT Specific target organ toxicity - single exposure

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

Assessment STOT Specific target organ toxicity - repeated exposure

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

Assessment mutagenicity

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

Assessment carcinogenicity

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

ACGIH

Distillates (petroleum), hydrotreated heavy	64742-52-5	Group A4
naphthenic; Baseoil unspecified		
NTP		

NIF

Distillates (petroleum), hydrotreated heavy	64742-52-5	1980
naphthenic; Baseoil unspecified		

IARC

Distillates (petroleum), hydrotreated heavy	64742-52-5	Overall evaluation: 3
naphthenic; Baseoil unspecified		

Distillates (petroleum), hydrotreated heavy 64742-52-5 Overall evaluation: 1

naphthenic; Baseoil -- unspecified

OSHA

None.

Assessment toxicity to reproduction

Ipconazole caused reproduction toxicity in a two-generation study in rats only at dose levels also toxic to the parent animals.

Assessment developmental toxicity

Ipconazole caused an increased incidence of non-specific malformations.

Further information



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

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

SECTION 12: ECOLOGICAL INFORMATION

Toxicity to fish LC50 (Cyprinus carpio (Carp)) 1.6 mg/l

Exposure time: 96 h

The value mentioned relates to the active ingredient.

Toxicity to aquatic

EC50 (Daphnia magna (Water flea)) 1.5 mg/l

invertebrates Exposure time: 48 h

The value mentioned relates to the active ingredient.

Toxicity to aquatic plants IC50 (Raphidocelis subcapitata (freshwater green alga)) 0.7 mg/l

Exposure time: 72 h

The value mentioned relates to the active ingredient.

Biodegradability lpconazole:

Not rapidly biodegradable

Koc lpconazole: Koc: 2461

Bioaccumulation Ipconazole: Bioconcentration factor (BCF) 283

Does not bioaccumulate.

Mobility in soil Ipconazole: Slightly mobile in soils

Results of PBT and vPvB assessment

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

very persistent and very bioaccumulative (vPvB).

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.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

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

regulations.

Contaminated packaging Consult state and local regulations regarding the proper disposal of

container.

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 3082
Class 9
Packaging group III
Marine pollutant YES

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(IPCONAZOLE SOLUTION)

IATA

UN number 3082
Class 9
Packaging group III
Environm. Hazardous Mark YES

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(IPCONAZOLE SOLUTION)

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.

SECTION 15: REGULATORY INFORMATION

EPA Registration No. 264-988

US Federal Regulations

TSCA list

Water 7732-18-5 Glycerine 56-81-5 Distillates (petroleum), hydrotreated 64742-52-5

heavy naphthenic; Baseoil -- unspecified

Polyethylene-polypropylene copolymer 9003-11-6 Sodium lignosulphonate 8061-51-6

US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)

No export notification needs to be made.

SARA Title III - Section 302 - Notification and Information

Not applicable.

SARA Title III - Section 313 - Toxic Chemical Release Reporting

None.

US States Regulatory Reporting

CA Prop65

This product does not contain any substances known to the State of California to cause cancer.



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This product does not contain any substances known to the State of California to cause reproductive harm.

US State Right-To-Know Ingredients

Glycerine 56-81-5 MN, RI

Distillates (petroleum), hydrotreated 64742-52-5 CA, MN, NJ, RI

heavy naphthenic; Baseoil -- unspecified

Environmental CERCLA

None.

Clean Water Section 307(a)(1)

None.

Safe Drinking Water Act Maximum Contaminant Levels

None.

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.

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

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



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NFPA 704 (National Fire Protection Association):

Health - 1 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. Reviewed and updated for general editorial purposes.

Revision Date: 08/14/2020

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