

Crew™

Version Revision Date: SDS Number: Date of last issue: -

1.0 04/29/2022 800080005804 Date of first issue: 04/29/2022

Corteva Agriscience™ encourages you and expects you to read and understand the entire SDS as there is important information throughout the document. This SDS provides users with information relating to the protection of human health and safety at the workplace, protection of the environment and supports emergency response. Product users and applicators should primarily refer to the product label attached to or accompanying the product container. This Safety Data Sheet adheres to the standards and regulatory requirements of the United States and may not meet the regulatory requirements in other countries.

SECTION 1. IDENTIFICATION

Product name : Crew™

Manufacturer or supplier's details

COMPANY IDENTIFICATION

Manufacturer/importer : CORTEVA AGRISCIENCE LLC

9330 ZIONSVILLE RD

INDIANAPOLIS, IN, 46268-1053

UNITED STATES

Customer Information

Number

: 800-992-5994

E-mail address : customerinformation@corteva.com

Emergency telephone : INFOTRAC (CONTRACT 84224).

800-992-5994 or 317-337-6009

Recommended use of the chemical and restrictions on use

Recommended use : End use herbicide product

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Carcinogenicity : Category 1A

GHS label elements

Hazard pictograms

Signal Word : Danger

Hazard Statements : H350 May cause cancer.





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Precautionary Statements : Prevention:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read

and understood.

P280 Wear protective gloves/ protective clothing/ eye protection/

face protection.

Response:

P308 + P313 IF exposed or concerned: Get medical advice/

attention.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste dis-

posal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
isoxaben (ISO)	82558-50-7	0.5
Dithiopyr	97886-45-8	0.25
Silica, crystalline (quartz)	14808-60-7	>= 3 - < 10
Balance	Not Assigned	> 80

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

If inhaled : Move person to fresh air; if effects occur, consult a physician.

In case of skin contact : Wash off with plenty of water.

In case of eye contact : Flush eyes with plenty of water; remove contact lenses after

the first 1-2 minutes then continue flushing for several minutes. Only mechanical effects expected. If effects occur,

consult a physician, preferably an ophthalmologist.

If swallowed : No emergency medical treatment necessary.

Most important symptoms and effects, both acute and

delayed

None known.

Protection of first-aiders

aiders : First Aid responders should pay attention to self-protection

and use the recommended protective clothing (chemical re-

sistant gloves, splash protection).

If potential for exposure exists refer to Section 8 for specific

personal protective equipment.

Notes to physician : No specific antidote.





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Treatment of exposure should be directed at the control of

symptoms and the clinical condition of the patient.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Water spray

Alcohol-resistant foam

Unsuitable extinguishing

media

None known.

Specific hazards during fire

fighting

Exposure to combustion products may be a hazard to health. Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion prod-

ucts

During a fire, smoke may contain the original material in addition to combustion products of varying composition which may

be taxic and/or irritating

be toxic and/or irritating.

Specific extinguishing meth-

ods

: Remove undamaged containers from fire area if it is safe to do

SO.

Evacuate area.

Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment. Use water spray to cool unopened containers.

Further information : Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

Special protective equipment

for fire-fighters

Wear self-contained breathing apparatus for firefighting if nec-

essary.

Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec: :

tive equipment and emer-

gency procedures

Avoid dust formation.

Avoid breathing dust.

Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

Environmental precautions : If the product contaminates rivers and lakes or drains inform

respective authorities.

Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water.

Local authorities should be advised if significant spillages

cannot be contained.

Prevent from entering into soil, ditches, sewers, underwater.

See Section 12, Ecological Information.

Methods and materials for containment and cleaning up

Local or national regulations may apply to releases and disposal of this material, as well as those materials and items

employed in.

Pick up and arrange disposal without creating dust.

Recovered material should be stored in a vented container.





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The vent must prevent the ingress of water as further reaction with spilled materials can take place which could lead to over-

pressurization of the container.

Keep in suitable, closed containers for disposal.

Sweep up or vacuum up spillage and collect in suitable con-

tainer for disposal.

See Section 13, Disposal Considerations, for additional infor-

mation.

SECTION 7. HANDLING AND STORAGE

Local/Total ventilation : Use with local exhaust ventilation.

Advice on safe handling : Do not breathe vapors/dust.

Do not smoke.

Handle in accordance with good industrial hygiene and safety

practice.

Avoid exposure - obtain special instructions before use. Smoking, eating and drinking should be prohibited in the ap-

plication area.

Do not get on skin or clothing. Avoid inhalation of vapor or mist. Avoid contact with skin and eyes. Keep container tightly closed.

Take care to prevent spills, waste and minimize release to the

environment.

Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

Conditions for safe storage : Store in a closed container.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage. Keep in properly labeled containers.

Store in accordance with the particular national regulations.

Materials to avoid : Do not store near acids.

Strong oxidizing agents Organic peroxides

Explosives Gases

Packaging material : Unsuitable material: None known.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Silica, crystalline (quartz)	14808-60-7	TWA (Respirable dust)	0.05 mg/m3	OSHA Z-1
		TWA (respirable)	10 mg/m3 / %SiO2+2	OSHA Z-3
		TWA (respirable)	250 mppcf / %SiO2+5	OSHA Z-3





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TWA (Respirable particulate matter)	0.025 mg/m3 (Silica)	ACGIH
TWA (respirable dust fraction)	0.1 mg/m3	OSHA P0
PEL (respir- able)	0.05 mg/m3	OSHA CARC

Engineering measures: Use local exhaust ventilation, or other engineering controls to

maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient

for most operations.

Local exhaust ventilation may be necessary for some opera-

tions.

Personal protective equipment

Respiratory protection : Respiratory protection should be worn when there is a poten-

tial to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. In dusty or misty atmospheres, use an approved particulate

respirator.

Hand protection

Remarks : Chemical protective gloves should not be needed when han-

dling this material. Consistent with general hygienic practice

for any material, skin contact should be minimized.

Eye protection : Use safety glasses (with side shields).

If there is a potential for exposure to particles which could

cause eye discomfort, wear chemical goggles.

Skin and body protection : No precautions other than clean body-covering clothing

should be needed.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : granules

Color : Gray

Odor : Faint

Odor Threshold : No data available

pH : 4.33

Freezing point : Not applicable

Melting point/range No data available

Boiling point/boiling range : Not applicable



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Flash point Not applicable

Evaporation rate Not applicable

No data available Flammability (solid, gas)

Upper explosion limit / Upper

flammability limit

Not applicable

Lower explosion limit / Lower

flammability limit

Not applicable

Vapor pressure Not applicable

Relative vapor density Not applicable

Relative density 2.2

No data available Bulk density

Solubility(ies)

Water solubility insoluble

Autoignition temperature No data available

Viscosity

Not applicable Viscosity, dynamic

No data available Explosive properties

Oxidizing properties No data available

SECTION 10. STABILITY AND REACTIVITY

Not classified as a reactivity hazard. Reactivity

No decomposition if stored and applied as directed. Chemical stability

Stable under normal conditions.

Possibility of hazardous reac-

tions

Stable under recommended storage conditions.

No hazards to be specially mentioned.

None known.

None known. Conditions to avoid Incompatible materials

None.

Hazardous decomposition products

Decomposition products depend upon temperature, air supply

and the presence of other materials.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

Acute oral toxicity LD50 (Rat): 22,500 mg/kg





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Components:

isoxaben (ISO):

Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg

Acute inhalation toxicity : Remarks: Prolonged excessive exposure to dust may cause

adverse effects.

Based on the available data, narcotic effects were not ob-

served.

Based on the available data, respiratory irritation was not ob-

served.

LC50 (Rat, male and female): > 2.93 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Assessment: The substance or mixture has no acute inhala-

tion toxicity

Symptoms: No deaths occurred at this concentration.

Remarks: Maximum attainable concentration.

Acute dermal toxicity : LD50 (Rabbit, male and female): > 2,000 mg/kg

Symptoms: No deaths occurred at this concentration.

Assessment: The substance or mixture has no acute dermal

toxicity

Dithiopyr:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Symptoms: No deaths occurred at this concentration.

Acute inhalation toxicity : Remarks: No adverse effects are anticipated from inhalation.

Based on the available data, narcotic effects were not ob-

served.

Based on the available data, respiratory irritation was not ob-

served.

LC50 (Rat): > 5.98 mg/l Exposure time: 4 h

Test atmosphere: dust/mist

Symptoms: No deaths occurred at this concentration.

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

Symptoms: No deaths occurred at this concentration.

Skin corrosion/irritation

Product:

Remarks : May cause skin irritation due to mechanical abrasion.



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Components:

Silica, crystalline (quartz):

Result : No skin irritation

Serious eye damage/eye irritation

Product:

Remarks : Solid or dust may cause irritation or corneal injury due to me-

chanical action.

Components:

Silica, crystalline (quartz):

Result : No eye irritation

Respiratory or skin sensitization

Components:

isoxaben (ISO):

Remarks : Did not cause allergic skin reactions when tested in guinea

pigs.

Remarks : For respiratory sensitization:

No relevant data found.

Dithiopyr:

Remarks : Did not cause allergic skin reactions when tested in guinea

pigs.

Remarks : For respiratory sensitization:

No relevant data found.

Germ cell mutagenicity

Components:

isoxaben (ISO):

Germ cell mutagenicity -

Assessment

In vitro genetic toxicity studies were negative., Animal genetic

toxicity studies were predominantly negative.

Dithiopyr:

Germ cell mutagenicity -

Assessment

In vitro genetic toxicity studies were negative., Animal genetic

toxicity studies were negative.

Silica, crystalline (quartz):

Germ cell mutagenicity -

Assessment

In vitro genetic toxicity studies were negative in some cases

and positive in other cases.



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Carcinogenicity

Product:

Carcinogenicity - Assess-

ment

Human carcinogen.

Components:

isoxaben (ISO):

Carcinogenicity - Assess-

ment

An increase in nonmalignant liver tumors was observed with

isoxaben in one of two species tested.

Dithiopyr:

Carcinogenicity - Assess-

ment

Did not cause cancer in laboratory animals.

Silica, crystalline (quartz):

Carcinogenicity - Assess-

ment

Human carcinogen.

Has caused cancer in humans., Has caused cancer in labora-

tory animals.

IARC Group 1: Carcinogenic to humans

Silica, crystalline (quartz) 14808-60-7

(Silica dust, crystalline)

OSHA OSHA specifically regulated carcinogen

Silica, crystalline (quartz) 14808-60-7

(crystalline silica)

NTP Known to be human carcinogen

Silica, crystalline (quartz) 14808-60-7

(Silica, Crystalline (Respirable Size))

Reproductive toxicity

Components:

isoxaben (ISO):

Reproductive toxicity - As-

sessment

In animal studies, has been shown to interfere with reproduction in females.. Effects have been seen only at doses that

produced significant toxicity to the parent animals.

Has caused birth defects in laboratory animals only at doses

toxic to the mother.

Dithiopyr:

Reproductive toxicity - As-

sessment

: For similar material(s):, In animal studies, did not interfere with

reproduction.

For similar material(s):, Did not cause birth defects or other effects in the fetus even at doses which caused toxic effects in

the mother.



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Silica, crystalline (quartz):

Reproductive toxicity - As-

sessment

For similar material(s):, Did not cause birth defects or any

other fetal effects in laboratory animals.

STOT-single exposure

Product:

Assessment : Available data are inadequate to determine single exposure

specific target organ toxicity.

Components:

isoxaben (ISO):

Assessment : Evaluation of available data suggests that this material is not

an STOT-SE toxicant.

Silica, crystalline (quartz):

Assessment : The substance or mixture is not classified as specific target

organ toxicant, single exposure.

STOT-repeated exposure

Components:

Silica, crystalline (quartz):

Assessment : The substance or mixture is not classified as specific target

organ toxicant, repeated exposure.

Repeated dose toxicity

Components:

isoxaben (ISO):

Remarks : In animals, effects have been reported on the following or-

gans: Liver. Kidney.

Dithiopyr:

Remarks : For similar material(s):

In animals, effects have been reported on the following or-

gans: Liver. Kidney.

Adrenal gland. Thyroid. Gall bladder. Blood.

Silica, crystalline (quartz):

Remarks : In humans, effects have been reported on the following or-



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gans: Kidney.

Repeated excessive exposure to crystalline silica may cause silicosis, a progressive and disabling disease of the lungs.

Aspiration toxicity

Components:

isoxaben (ISO):

Based on physical properties, not likely to be an aspiration hazard.

Dithiopyr:

Based on available information, aspiration hazard could not be determined.

Silica, crystalline (quartz):

Based on physical properties, not likely to be an aspiration hazard.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

isoxaben (ISO):

Toxicity to fish : Remarks: Material is very highly toxic to aquatic organisms on

an acute basis (LC50/EC50 <0.1 mg/L in the most sensitive

species).

LC50 (Oncorhynchus mykiss (rainbow trout)): 1.2 mg/l

Exposure time: 96 h Test Type: static test

Method: OECD Test Guideline 203 or Equivalent Remarks: The LC50 value is above the water solubility.

LC50 (Cyprinodon variegatus (sheepshead minnow)): > 0.87

mg/l

Exposure time: 96 h Test Type: static test

Method: OECD Test Guideline 203 or Equivalent Remarks: The LC50 value is above the water solubility.

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 1.3 mg/l

Exposure time: 48 h Test Type: static test

Method: OECD Test Guideline 202 or Equivalent

Toxicity to algae/aquatic

plants

EbC50 (Lemna minor (duckweed)): 0.011 mg/l

End point: Biomass Exposure time: 7 d Test Type: static test

Method: OECD Test Guideline 201 or Equivalent





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ErC50 (Pseudokirchneriella subcapitata (green algae)): > 1.2

mg/l

10

End point: Growth rate inhibition

Exposure time: 72 h Test Type: static test

ErC50 (Skeletonema costatum (marine diatom)): > 0.49 mg/l

Exposure time: 72 h Test Type: static test

M-Factor (Acute aquatic tox-

city)

Toxicity to fish (Chronic tox-

icity)

NOEC (Pimephales promelas (fathead minnow)): 0.4 mg/l

End point: growth Exposure time: 33 d Test Type: semi-static test

LOEC (Pimephales promelas (fathead minnow)): > 0.40 mg/l

End point: growth Exposure time: 33 d Test Type: semi-static test

MATC (Maximum Acceptable Toxicant Level) (Pimephales

promelas (fathead minnow)): > 0.40 mg/l

End point: growth Exposure time: 33 d Test Type: semi-static test

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

NOEC (Daphnia magna (Water flea)): 0.69 mg/l

End point: growth Exposure time: 21 d Test Type: static test

Method: OECD Test Guideline 211 or Equivalent

LOEC (Daphnia magna (Water flea)): 1.01 mg/l

End point: growth Exposure time: 21 d Test Type: static test

Method: OECD Test Guideline 211 or Equivalent

MATC (Maximum Acceptable Toxicant Level) (Daphnia

magna (Water flea)): 0.85 mg/l

End point: growth Exposure time: 21 d Test Type: static test

Method: OECD Test Guideline 211 or Equivalent

NOEC (saltwater mysid Mysidopsis bahia): 0.841 mg/l

Exposure time: 28 d

Test Type: flow-through test

LOEC (saltwater mysid Mysidopsis bahia): > 0.841 mg/l

Exposure time: 28 d

Test Type: flow-through test





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NOEC (Midge (Chironomus riparius)): 32 mg/l

End point: mortality Exposure time: 28 d Test Type: static test

Method: OECD Test Guideline 211 or Equivalent

LOEC (Midge (Chironomus riparius)): 64 mg/l

End point: mortality Exposure time: 28 d Test Type: static test

Method: OECD Test Guideline 211 or Equivalent

MATC (Maximum Acceptable Toxicant Level) (Midge (Chi-

ronomus riparius)): 48 mg/l

End point: mortality Exposure time: 28 d Test Type: static test

Method: OECD Test Guideline 211 or Equivalent

M-Factor (Chronic aquatic

toxicity)

Toxicity to microorganisms

: 10

EC50 (activated sludge): > 100 mg/l

End point: Respiration rates.

Exposure time: 3 h

Test Type: Respiration inhibition

Toxicity to soil dwelling or-

ganisms

LC50 (Eisenia fetida (earthworms)): > 1,000 mg/kg

Exposure time: 14 d

Toxicity to terrestrial organ-

isms

Remarks: Material is practically non-toxic to birds on an acute basis (LD50 > 2000 mg/kg)., Material is moderately toxic to birds on a dietary basis (LC50 between 501 and 1000 ppm).

oral LD50 (Colinus virginianus (Bobwhite quail)): > 2000

mg/kg bodyweight. Exposure time: 14 d

LC50 (Colinus virginianus (Bobwhite quail)): > 937 mg/kg diet.

Exposure time: 8 d

oral LD50 (Apis mellifera (bees)): > 100 micrograms/bee

contact LD50 (Apis mellifera (bees)): > 100 micrograms/bee

Exposure time: 48 h

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

Dithiopyr:

Toxicity to fish : Remarks: Material is very highly toxic to aquatic organisms on

an acute basis (LC50/EC50 < 0.1 mg/L in the most sensitive



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species).

LC50 (Oncorhynchus mykiss (rainbow trout)): 0.5 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 1.1 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

EC50 (Selenastrum capricornutum (green algae)): 0.020 mg/l

Exposure time: 5 d Test Type: Static

ErC50 (Lemna gibba (gibbous duckweed)): 0.014 mg/l

Exposure time: 7 d

NOEC (Lemna gibba (gibbous duckweed)): 0.0024 mg/l

Exposure time: 7 d

M-Factor (Acute aquatic tox-

icity)

M-Factor (Chronic aquatic

toxicity)

10

10

Toxicity to soil dwelling or-

Toxicity to terrestrial organ-

ganisms

isms

LC50 (Eisenia fetida (earthworms)): > 1,000 mg/kg

Remarks: Material is practically non-toxic to birds on an acute basis (LD50 > 2000 mg/kg)., Material is practically non-toxic to

birds on a dietary basis (LC50 > 5000 ppm).

oral LD50 (Colinus virginianus (Bobwhite quail)): > 2250

mg/kg bodyweight.

dietary LC50 (Colinus virginianus (Bobwhite quail)): > 5620

mg/kg diet.

contact LD50 (Apis mellifera (bees)): > 100 µg/bee

Exposure time: 48 h

oral LD50 (Apis mellifera (bees)): > 119 µg/bee

Exposure time: 48 h

Silica, crystalline (quartz):

Toxicity to fish : Remarks: Not expected to be acutely toxic to aquatic organ-

isms.

Ecotoxicology Assessment

Acute aquatic toxicity : This product has no known ecotoxicological effects.



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Persistence and degradability

Components:

isoxaben (ISO):

Biodegradability : Result: Not biodegradable

Remarks: Material is expected to biodegrade very slowly (in the environment). Fails to pass OECD/EEC tests for ready

biodegradability.

Biodegradation rate may increase in soil and/or water with

acclimation.

Chemical Oxygen Demand

(COD)

1.77 mg/g

ThOD : 1.98 kg/kg

Stability in water : Test Type: Hydrolysis

Degradation half life (half-life): > 5 d pH: 7.0

Photodegradation : Test Type: Half-life (direct photolysis)

Method: Measured

Test Type: Half-life (direct photolysis)

Test Type: Half-life (indirect photolysis)

Sensitizer: OH radicals

Concentration: 1,500,000 1/cm3 Rate constant: 2.045E-10 cm3/s

Method: Estimated.

Dithiopyr:

Biodegradability : Result: Not readily biodegradable.

Remarks: Biodegradation may occur under aerobic conditions

(in the presence of oxygen).

Silica, crystalline (quartz):

Biodegradability : Remarks: Biodegradation is not applicable.

Bioaccumulative potential

Components:

isoxaben (ISO):

Partition coefficient: n-

octanol/water

log Pow: 2.64

Method: Measured

Remarks: Bioconcentration potential is low (BCF < 100 or Log

Pow < 3).

Dithiopyr:

Partition coefficient: n-

octanol/water

:

log Pow: 4.75 Method: Measured



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> Remarks: Bioconcentration potential is moderate (BCF between 100 and 3000 or Log Pow between 3 and 5).

Silica, crystalline (quartz):

Partition coefficient: n-

octanol/water

Remarks: Partitioning from water to n-octanol is not applica-

ble.

Balance:

Partition coefficient: n-

octanol/water

Remarks: No relevant data found.

Mobility in soil

Components:

isoxaben (ISO):

Distribution among environ-

mental compartments

Koc: 700 - 1290

Remarks: Potential for mobility in soil is low (Koc between 500

and 2000).

Test Type: aerobic degradation Stability in soil

Dissipation time: 0.358 - 0.883 yr

Test Type: Photolysis Dissipation time: 248 d

Dithiopyr:

Distribution among environ-

mental compartments

Koc: 20500

Remarks: Expected to be relatively immobile in soil (Koc >

5000).

Given its very low Henry's constant, volatilization from natural bodies of water or moist soil is not expected to be an im-

portant fate process.

Silica, crystalline (quartz):

Distribution among environ-

mental compartments

Remarks: No relevant data found.

Balance:

Distribution among environ-

mental compartments

Remarks: No relevant data found.

Other adverse effects

Components:

isoxaben (ISO):

Results of PBT and vPvB

assessment

This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be

very persistent and very bioaccumulating (vPvB).

Ozone-Depletion Potential Remarks: This substance is not on the Montreal Protocol list

of substances that deplete the ozone layer.





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Dithiopyr:

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assessment

This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be

very persistent and very bioaccumulating (vPvB).

Ozone-Depletion Potential : Remarks: This substance is not on the Montreal Protocol list

of substances that deplete the ozone layer.

Silica, crystalline (quartz):

Results of PBT and vPvB

assessment

This substance has not been assessed for persistence, bioac-

cumulation and toxicity (PBT).

Ozone-Depletion Potential : Remarks: This substance is not on the Montreal Protocol list

of substances that deplete the ozone layer.

Balance:

Results of PBT and vPvB

assessment

: This substance has not been assessed for persistence, bioac-

cumulation and toxicity (PBT).

Ozone-Depletion Potential : Remarks: This substance is not on the Montreal Protocol list

of substances that deplete the ozone layer.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : If wastes and/or containers cannot be disposed of according

to the product label directions, disposal of this material must be in accordance with your local or area regulatory authorities. This information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regu-

lations.

If the material as supplied becomes a waste, follow all appli-

cable regional, national and local laws.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good



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Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation

49 CFR

Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

SARA 311/312 Hazards : Carcinogenicity

SARA 313 : This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

US State Regulations

Pennsylvania Right To Know

Silica, crystalline (quartz) 14808-60-7 Dipropylene glycol 25265-71-8

California Prop. 65

WARNING: This product can expose you to chemicals including Silica, crystalline (quartz), which is/are known to the State of California to cause cancer, and

toluene, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

The ingredients of this product are reported in the following inventories:

TSCA : Product contains substance(s) not listed on TSCA inventory.

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

Federal Insecticide, Fungicide and Rodenticide Act

EPA Registration Number : 62719-742

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:

CAUTION

Harmful if absorbed through skin or inhaled Causes moderate eye irritation.





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SECTION 16. OTHER INFORMATION

Information Source and References

This SDS is prepared by Product Regulatory Services and Hazard Communications Groups from information supplied by internal references within our company.

Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

OSHA CARC : OSHA Specifically Regulated Chemicals/Carcinogens

OSHA P0 : USA. Table Z-1-A Limits for Air Contaminants (1989 vacated

values)

OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim-

its for Air Contaminants

OSHA Z-3 : USA. Occupational Exposure Limits (OSHA) - Table Z-3 Min-

eral Dusts

ACGIH / TWA : 8-hour, time-weighted average OSHA CARC / PEL : Permissible exposure limit (PEL) OSHA P0 / TWA : 8-hour time weighted average OSHA Z-1 / TWA : 8-hour time weighted average OSHA Z-3 / TWA : 8-hour time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule: ENCS - Existing and New Chemical Substances (Japan): ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI -Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ -Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative



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