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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 Georgia and may not meet the regulatory requirements in other countries.

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product name : RADIANT™ SC

Manufacturer or supplier's details

**COMPANY IDENTIFICATION** 

Manufacturer/importer Corteva Agriscience International S.a.r.l.

> Route de Suisse 160 CH-1290 Versoix Switzerland

E-mail address SDS@corteva.com

Emergency telephone num- : +32 3 575 55 55

ber

Recommended use of the chemical and restrictions on use Recommended use : End use insecticide product

#### 2. HAZARDS IDENTIFICATION

**GHS Classification** 

Reproductive toxicity Category 2

Short-term (acute) aquatic

hazard

Category 2

Long-term (chronic) aquatic

hazard

Category 1

**GHS-Labelling** 

Hazard pictograms





Signal word

Hazard statements H361 Suspected of damaging fertility or the unborn child.

H401 Toxic to aquatic life.

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H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements : **Prevention:** 

P201 Obtain special instructions before use. P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/ eye protec-

tion/ face protection.

Response:

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

tention

P391 Collect spillage.

Disposal:

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

posal plant.

Other hazards which do not result in classification

None known.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture : Mixture

## Components

Chemical name	CAS-No.	Classification	MAC value mg/m3 / TSEL value	Concentration (% w/w)
Spinetoram J & L (CAS# 187166-40-1 & 187166-15-0)	935545-74-7	Acute Tox.5; H333 Skin Sens.1; H317 Repr.2; H361 Aquatic Acute1; H400 Aquatic Chronic1; H410	No data available	11,583
Propylene glycol	57-55-6		MPC-STEL: 7 mg/m3 Class 3 - Moder- ately dangerous Data Source: RU OEL	>= 3 - < 10
Naphthalenesulfonic acid, formaldehyde ammonium salt copolymer	9069-80-1	Eye Irrit.2A; H319	No data available	>= 1 - < 3

For explanation of abbreviations see section 16.

## 4. FIRST AID MEASURES





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If inhaled Move person to fresh air. If person is not breathing, call an

> emergency responder or ambulance, then give artificial respiration; if by mouth to mouth use rescuer protection (pocket mask etc). Call a poison control center or doctor for treatment

advice.

In case of skin contact Take off contaminated clothing. Rinse skin immediately with

plenty of water for 15-20 minutes. Call a poison control center

or doctor for treatment advice.

Hold eyes open and rinse slowly and gently with water for 15-In case of eye contact

20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. Call a poison control cen-

ter or doctor for treatment advice.

If swallowed No emergency medical treatment necessary. None known.

Most important symptoms and effects, both acute and

delaved

Protection of first-aiders If potential for exposure exists refer to Section 8 for specific

personal protective equipment.

No specific antidote. Notes to physician

Treatment of exposure should be directed at the control of

symptoms and the clinical condition of the patient.

Have the Safety Data Sheet, and if available, the product container or label with you when calling a poison control center or

doctor, or going for treatment.

### 5. FIREFIGHTING MEASURES

Flammable properties

> 200 °C Flash point

Method: closed cup

Ignition temperature > 400 °C

> Method: EC Method A15 Ramped Temperature

Upper explosion limit / Upper :

flammability limit

No data available

Lower explosion limit / Lower :

flammability limit

No data available

Flammability (solid, gas) Not applicable to liquids

Suitable extinguishing media Water spray

> Alcohol-resistant foam Carbon dioxide (CO2)

Dry chemical

Unsuitable extinguishing me-

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.





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Hazardous combustion prod-

ucts

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

be toxic and/or irritating.

Combustion products may include and are not limited to:

Carbon oxides

Nitrogen oxides (NOx)

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.

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 firefighters

In the event of fire, wear self-contained breathing apparatus.

Use personal protective equipment.

### **6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emer-

gency procedures

Use personal protective equipment.

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.

Prevent spreading over a wide area (e.g. by containment or oil

barriers).

Retain and dispose of contaminated wash water.

Local authorities should be advised if significant spillages can-

not be contained.

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

See Section 12, Ecological Information.

Methods and materials for containment and cleaning up

Clean up remaining materials from spill with suitable absorb-

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

employed in.

For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, recovered material should be stored in a vented

container.

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. Wipe up with absorbent material (e.g. cloth, fleece).

Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).





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See Section 13, Disposal Considerations, for additional infor-

mation.

#### 7. HANDLING AND STORAGE

Advice on safe handling : Handle in accordance with good industrial hygiene and safety

practice.

Smoking, eating and drinking should be prohibited in the appli-

cation area.

Avoid inhalation of vapour or mist.

Do not swallow.

Avoid contact with eyes.

Avoid prolonged or repeated contact with skin.

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 labelled containers.

Store in accordance with the particular national regulations.

Materials to avoid : Strong oxidizing agents

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Components with workplace control parameters

Components	CAS-No.	Value type (Form of ex- posure)	Control parameters / Permissible concentration	Basis		
Propylene glycol	57-55-6	MPC-STEL (mixture of vapour and aerosol)	7 mg/m3	RU OEL		
	Further infor	Further information: Class 3 - Moderately dangerous				

#### **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 operations.

#### 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.





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For most conditions no respiratory protection should be needed; however, if discomfort is experienced, use an ap-

proved air-purifying respirator.

Hand protection

Remarks : Use gloves chemically resistant to this material when pro-

longed or frequently repeated contact could occur. Examples of preferred glove barrier materials include: Neoprene. Nitrile/butadiene rubber ("nitrile" or "NBR"). Polyvinyl chloride ("PVC" or "vinyl"). NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided

by the glove supplier.

Eye protection : Use safety glasses (with side shields). Skin and body protection : Wear clean, body-covering clothing.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Liquid.

Colour : Off-white

Odour : Musty

Odour Threshold : No data available

pH : 7,15 (22,7 °C)

Concentration: 1 %
Method: pH Electrode
(1% aqueous suspension)

Melting point/range : Not applicable

Freezing point No data available

Boiling point/boiling range : No data available

Flash point : > 200 °C

Method: closed cup

Evaporation rate : No data available

Flammability (solid, gas) : Not applicable to liquids

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower

flammability limit

: No data available





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Vapour pressure : No data available

Relative vapour density : No data available

Density : 1,025 g/cm3 (20 °C)

Method: Digital density meter

Solubility(ies)

Water solubility : Dispersible

Auto-ignition temperature : > 400 °C

Method: EC Method A15 Ramped Temperature

Explosive properties : No

Oxidizing properties : No

Reference substance: Monoammonium phosphate

Molecular weight : No test data available

## 10. STABILITY AND REACTIVITY

Reactivity : Not classified as a reactivity hazard.

Chemical stability : No decomposition if stored and applied as directed.

Stable under normal conditions.

Possibility of hazardous reac-

tions

Stable under recommended storage conditions.

No hazards to be specially mentioned.

Conditions to avoid : None known. Incompatible materials : Strong acids

Strong bases

Hazardous decomposition

products

Decomposition products depend upon temperature, air supply

and the presence of other materials.

Decomposition products can include and are not limited to:

Carbon oxides

Nitrogen oxides (NOx)

### 11. TOXICOLOGICAL INFORMATION

## **Acute toxicity**

**Product:** 

Acute oral toxicity : LD50 (Rat, female): > 5.000 mg/kg

Method: OECD Test Guideline 423

Acute inhalation toxicity : LC50 (Rat): > 5,04 mg/l

Exposure time: 4 h
Test atmosphere: Aerosol

Method: OECD Test Guideline 403





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Assessment: The substance or mixture has no acute inhala-

tion toxicity

Acute dermal toxicity : LD50 (Rat, male and female): > 5.000 mg/kg

Method: OECD Test Guideline 402

**Components:** 

Spinetoram J & L (CAS# 187166-40-1 & 187166-15-0):

Acute oral toxicity : LD50 (Rat, female): > 5.000 mg/kg

Acute inhalation toxicity : LC50 (Rat, male and female): > 5,50 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rat, male and female): > 5.000 mg/kg

Propylene glycol:

Acute oral toxicity : LD50 (Rat): > 20.000 mg/kg

Acute inhalation toxicity : LC50 (Rabbit): 317,042 mg/l

Exposure time: 2 h

Test atmosphere: dust/mist

Symptoms: No deaths occurred at this concentration. Assessment: The substance or mixture has no acute inhala-

tion toxicity

Remarks: Mist may cause irritation of upper respiratory tract

(nose and throat).

Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg

Symptoms: No deaths occurred at this concentration.

Assessment: The substance or mixture has no acute dermal

toxicity

Skin corrosion/irritation

**Product:** 

Species : Rabbit

Method : OECD Test Guideline 404

Result : No skin irritation

**Components:** 

Spinetoram J & L (CAS# 187166-40-1 & 187166-15-0):

Species : Rabbit

Method : OECD Test Guideline 404

Result : No skin irritation

Propylene glycol:

Species : Rabbit

Result : No skin irritation





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### Serious eye damage/eye irritation

**Product:** 

Species : Rabbit

Result : No eye irritation

Method : OECD Test Guideline 405

#### Components:

#### Spinetoram J & L (CAS# 187166-40-1 & 187166-15-0):

Species : Rabbit

Result : No eye irritation

Method : OECD Test Guideline 405

Propylene glycol:

Species : Rabbit

Result : No eye irritation

### Naphthalenesulfonic acid, formaldehyde ammonium salt copolymer:

Species : Rabbit Result : Eye irritation

#### Respiratory or skin sensitisation

**Product:** 

Test Type : Local lymph node assay (LLNA)

Species : Mouse

Assessment : Does not cause skin sensitisation.

Method : OECD Test Guideline 429

#### Components:

### Spinetoram J & L (CAS# 187166-40-1 & 187166-15-0):

Species : Mouse

Assessment : The product is a skin sensitiser, sub-category 1B.

Propylene glycol:

Species : human

Assessment : Does not cause skin sensitisation.

### Germ cell mutagenicity

### **Components:**

### Spinetoram J & L (CAS# 187166-40-1 & 187166-15-0):

Germ cell mutagenicity - As- : In vitro genetic toxicity studies were negative., Animal genetic

sessment toxicity studies were negative.

### Propylene glycol:





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Germ cell mutagenicity - As-

sessment

In vitro genetic toxicity studies were negative., Animal genetic

toxicity studies were negative.

Carcinogenicity

**Components:** 

Spinetoram J & L (CAS# 187166-40-1 & 187166-15-0):

Carcinogenicity - Assess-

ment

: Did not cause cancer in laboratory animals.

Propylene glycol:

Carcinogenicity - Assess-

ment

: Did not cause cancer in laboratory animals.

Reproductive toxicity

Product:

Reproductive toxicity - As-

sessment

: Suspected of damaging fertility.

Components:

Spinetoram J & L (CAS# 187166-40-1 & 187166-15-0):

Reproductive toxicity - As-

sessment

: Suspected human reproductive toxicant

Did not cause birth defects or other effects in the fetus even at

doses which caused toxic effects in the mother.

Propylene glycol:

Reproductive toxicity - As-

sessment

In animal studies, did not interfere with reproduction., In ani-

mal studies, did not interfere with fertility.

Did not cause birth defects or any other fetal effects in labora-

tory animals.

STOT - single exposure

**Product:** 

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

an STOT-SE toxicant.

**Components:** 

Spinetoram J & L (CAS# 187166-40-1 & 187166-15-0):

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

an STOT-SE toxicant.

Propylene glycol:

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

an STOT-SE toxicant.





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#### STOT - repeated exposure

**Product:** 

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

an STOT-RE toxicant.

## Repeated dose toxicity

### **Components:**

### Spinetoram J & L (CAS# 187166-40-1 & 187166-15-0):

Remarks : In animals, has been shown to cause vacuolization of cells in

various tissues.

Dose levels producing these effects were many times higher than any dose levels expected from exposure due to use.

Propylene glycol:

Remarks In rare cases, repeated excessive exposure to propylene gly-

col may cause central nervous system effects.

### **Aspiration toxicity**

#### **Product:**

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

## **Components:**

### Spinetoram J & L (CAS# 187166-40-1 & 187166-15-0):

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

## Propylene glycol:

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

## 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

**Product:** 

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): > 48,2 mg/l

Exposure time: 96 h Test Type: semi-static test

aquatic invertebrates

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 42,8 mg/l

Exposure time: 48 h

Test Type: semi-static test

EC50 (Chironomus riparius (harlequin fly)): 4,1 mg/l

Exposure time: 48 h Test Type: Static





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Toxicity to algae/aquatic

plants

: EC50 (diatom Navicula sp.): 1,098 mg/l

End point: Growth inhibition (cell density reduction)

Exposure time: 72 h

Toxicity to soil dwelling or-

ganisms

LC50 (Eisenia fetida (earthworms)): > 8.560 mg/kg

Exposure time: 14 d End point: survival

Toxicity to terrestrial organ-

isms

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

mg/kg bodyweight.

oral LD50 (Apis mellifera (bees)): 0,32 micrograms/bee

Exposure time: 96 h

contact LD50 (Apis mellifera (bees)): 0,17 micrograms/bee

Exposure time: 96 h

### Components:

## Spinetoram J & L (CAS# 187166-40-1 & 187166-15-0):

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 2,69 mg/l

Exposure time: 96 h

Test Type: flow-through test

Method: OECD Test Guideline 203 or Equivalent

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 0,229 mg/l

Exposure time: 48 h Test Type: static test

Method: OECD Test Guideline 202 or Equivalent

LC50 (saltwater mysid Mysidopsis bahia): 0,355 mg/l

Exposure time: 96 h

Test Type: flow-through test

EC50 (Chironomus riparius (harlequin fly)): 0,0031 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic

plants

ErC50 (Pseudokirchneriella subcapitata (green algae)): 1,06

mg/l

End point: Biomass Exposure time: 72 h Test Type: static test

Method: OECD Test Guideline 201 or Equivalent

ErC50 (diatom Navicula sp.): 0,127 mg/l

End point: Biomass Exposure time: 72 h Test Type: static test

Method: OECD Test Guideline 201 or Equivalent

ErC50 (Lemna gibba): > 14,2 mg/l End point: Growth rate inhibition

Exposure time: 7 d

Test Type: semi-static test

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M-Factor (Acute aquatic tox-

icity)

Toxicity to fish (Chronic tox-

icity)

NOEC (Pimephales promelas (fathead minnow)): 0,182 mg/l

End point: weight Exposure time: 32 d

Test Type: flow-through test

LOEC (Pimephales promelas (fathead minnow)): 0,392 mg/l

End point: weight Exposure time: 32 d

Test Type: flow-through test

MATC (Maximum Acceptable Toxicant Level) (Pimephales

NOEC (Daphnia magna (Water flea)): 0,000062 mg/l

promelas (fathead minnow)): 0,267 mg/l

End point: weight Exposure time: 32 d

Test Type: flow-through test

Test Type: flow-through test

Toxicity to daphnia and other :

aquatic invertebrates (Chronic toxicity)

M-Factor (Chronic aquatic

toxicity)

ic aquatic : 1.000

Toxicity to microorganisms : EC50 (Bacteria): > 10 mg/l

Exposure time: 3 h

Toxicity to soil dwelling or-

ganisms

LC50: > 500 mg/kg Exposure time: 14 d

Toxicity to terrestrial organ-

isms

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

mg/kg bodyweight.

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

mg/kg diet.

oral LD50 (Apis mellifera (bees)): 0,11 micrograms/bee

Exposure time: 48 h

Propylene glycol:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 40.613 mg/l

Exposure time: 96 h Test Type: static test

Method: OECD Test Guideline 203

Toxicity to daphnia and other :

aquatic invertebrates

LC50 (Ceriodaphnia dubia (water flea)): 18.340 mg/l

Exposure time: 48 h Test Type: static test

Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

ErC50 (Pseudokirchneriella subcapitata (green algae)):

19.000 mg/l

End point: Growth rate inhibition

Exposure time: 96 h

Method: OECD Test Guideline 201





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Toxicity to daphnia and other :

aquatic invertebrates

(Chronic toxicity)

NOEC (Ceriodaphnia dubia (water flea)): 13.020 mg/l

End point: number of offspring

Exposure time: 7 d Test Type: semi-static test

Toxicity to microorganisms NOEC (Pseudomonas putida): > 20.000 mg/l

Exposure time: 18 h

### Persistence and degradability

### **Components:**

Spinetoram J & L (CAS# 187166-40-1 & 187166-15-0):

Biodegradability : aerobic

Inoculum: activated sludge Concentration: 20 mg/l

Result: Not rapidly biodegradable Biodegradation: 0,1 - 9,1 %

Exposure time: 28 d

Method: OECD Test Guideline 301B or Equivalent

Remarks: 10-day Window: Fail

Propylene glycol:

Biodegradability aerobic

Result: Readily biodegradable.

Biodegradation: 81 % Exposure time: 28 d

Method: OECD Test Guideline 301F or Equivalent

Remarks: 10-day Window: Pass

Biodegradation: 96 % Exposure time: 64 d

Method: OECD Test Guideline 306 or Equivalent Remarks: 10-day Window: Not applicable

Biochemical Oxygen De-

mand (BOD)

69.000 %

Incubation time: 5 d

70.000 %

Incubation time: 10 d

86.000 %

Incubation time: 20 d

Chemical Oxygen Demand

(COD)

1,53 kg/kg

**ThOD** 1,68 kg/kg

Photodegradation Rate constant: 1,28E-11 cm3/s

Method: Estimated.





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#### **Bioaccumulative potential**

### **Components:**

### Spinetoram J & L (CAS# 187166-40-1 & 187166-15-0):

Bioaccumulation : Species: Oncorhynchus mykiss (rainbow trout)

Bioconcentration factor (BCF): 348

Exposure time: 28 d

Partition coefficient: n-oc-

tanol/water

: log Pow: 4,49 (20 °C)

pH: 7

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

Propylene glycol:

Bioaccumulation : Bioconcentration factor (BCF): 0,09

Method: Estimated.

Partition coefficient: n-oc-

tanol/water

log Pow: -1,07 Method: Measured

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

Pow < 3).

#### Mobility in soil

#### Components:

## Spinetoram J & L (CAS# 187166-40-1 & 187166-15-0):

Distribution among environ-

mental compartments

: Remarks: Potential for mobility in soil is slight (Koc between

2000 and 5000).

Propylene glycol:

Distribution among environ-

mental compartments

Koc: < 1

Method: Estimated.

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

an important fate process.

Potential for mobility in soil is very high (Koc between 0 and

50).

#### Other adverse effects

## **Components:**

## Spinetoram J & L (CAS# 187166-40-1 & 187166-15-0):

Results of PBT and vPvB as- :

sessment

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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Propylene glycol:

Results of PBT and vPvB as- :

sessment

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.

Naphthalenesulfonic acid, formaldehyde ammonium salt copolymer:

Results of PBT and vPvB as- :

sessment

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.

#### 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 applica-

ble regional, national and local laws.

## 14. TRANSPORT INFORMATION

**ADR** 

UN number : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(Spinetoram)

Class : 9
Packing group : III
Labels : 9
Hazard Identification Number : 90
Tunnel restriction code : (-)
Environmentally hazardous : yes

**UNRTDG** 

UN number : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S. (Spinetoram)



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Class : 9
Packing group : III
Labels : 9
Environmentally hazardous : yes

IATA-DGR

UN/ID No. : UN 3082

Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.

(Spinetoram)

Class : 9 Packing group : III

Labels : Miscellaneous

Packing instruction (cargo :

aircraft)

Packing instruction (passen- : 964

ger aircraft)

**IMDG-Code** 

UN number : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

964

(Spinetoram)

Class : 9
Packing group : III
Labels : 9
EmS Code : F-A, S-F

Marine pollutant : yes(Spinetoram)
Remarks : Stowage category A

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

Not applicable for product as supplied.

#### **Further information**

Marine Pollutants assigned UN number 3077 and 3082 in single or combination packaging containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass per single or inner packaging of 5 KG or less for solids may be transported as non-dangerous goods as provided in section 2.10.2.7 of IMDG code, IATA Special provision A197, and ADR/RID special provision 375.

#### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

#### 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture





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

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#### 16. OTHER INFORMATION

#### **Full text of H-Statements**

H317 May cause an allergic skin reaction. H319 Causes serious eye irritation.

H333 May be harmful if inhaled.

H361 Suspected of damaging fertility or the unborn child.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

## Full text of other abbreviations

Acute Tox. : Acute toxicity

Aquatic Acute : Short-term (acute) aquatic hazard Aquatic Chronic : Long-term (chronic) aquatic hazard

Eye Irrit. : Eye irritation

Repr. : Reproductive toxicity Skin Sens. : Skin sensitisation

RU OEL : SanPiN 1.2.3685-21 Table 2.1, Table 2.8, Table 2.16 & Table

2.17 Maximum permissible concentrations (MPC) in the air of

the working area

RU OEL / MPC-STEL : Maximum Permissible Concentration - Short Term Exposure ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; ASTM - American Society for the Testing of Materials; ECx - Concentration associated with x% response; EmS - Emergency Schedule; ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; 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; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; 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; n.o.s. - not otherwise specified; NOEC - Non-Observed Effective Concentration; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; (Q)SAR - (Quantitative) Structure Activity Relationship; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SDS - Safety Data Sheet; UN -

Product code: GF-1587

United Nations.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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