

# SAFETY DATA SHEET

Corteva Agriscience UK Ltd

Safety Data Sheet according to Reg. (EU) No 2015/830

# Product name: Radiant SC Insecticide (GF-1587)

Revision Date: 23.04.2021 Version: 0.0 Date of last issue: 10.01.2017 Print Date: 23.04.2021

Corteva Agriscience UK Ltd 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.

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

**1.1 Product identifier Product name:** Radiant SC Insecticide (GF-1587)

**1.2 Relevant identified uses of the substance or mixture and uses advised against Identified uses:** Plant Protection Product Insecticide

# 1.3 Details of the supplier of the safety data sheet COMPANY IDENTIFICATION

Corteva Agriscience UK Ltd CPC2 CAPITAL PARK FULBOURN CAMBRIDGE - England - CB21 5XE UNITED KINGDOM

Customer Information Number E-mail address	:	+44 8006 89 8899 SDS@corteva.com
1.4 EMERGENCY TELEPHONE 24-Hour Emergency Contact Local Emergency Contact		+44 161 88 41235 +44 161 88 41235

# **SECTION 2: HAZARDS IDENTIFICATION**

# 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008:

Reproductive toxicity - Category 2 - H361f Short-term (acute) aquatic hazard - Category 1 - H400 Long-term (chronic) aquatic hazard - Category 1 - H410 For the full text of the H-Statements mentioned in this Section, see Section 16.

# 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008:

Hazard pictograms



Signal Word: WARNING

# Hazard statements

H361f	Suspected of damaging fertility.
H410	Very toxic to aquatic life with long lasting effects.

## **Precautionary statements**

P202	Do not handle until all safety precautions have been read and understood.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P391	Collect spillage.
P501	Dispose of contents/container in accordance with applicable regulations.

## Supplemental information

EUH401	To avoid risks to human health and the environment, comply with the instructions for
	USE.

EUH208	Contains: 1,2-benzisothiazol-3(2H)-one; Spinetoram J & L (CAS# 187166-40-1 &
	187166-15-0). May produce an allergic reaction.

**Contains** N,N-Dimethyldecan-1-amide; pyraclostrobin (ISO); 1-Methylnaphthalene; 2-Methylnaphthalene

# 2.3 Other hazards

No data available

# **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

# 3.2 Mixtures

This product is a mixture.

CASRN / EC-No. / Index-No.	REACH Registration Number	Concentration	Component	Classification: REGULATION (EC) No 1272/2008
CASRN 935545-74-7 EC-No. Not available Index-No. –	_	11.58%	Spinetoram J & L (CAS# 187166-40-1 & 187166-15-0)	Skin Sens 1B - H317 Repr 2 - H361f Aquatic Acute - 1 - H400 Aquatic Chronic - 1 - H410

CASRN 131929-63-0 EC-No. - Index-No. 603-209-00-0	_	0.0135%	spinosyn D	Aquatic Acute - 1 - H400 Aquatic Chronic - 1 - H410
CASRN 9069-80-1 EC-No. – Index-No.	_	>= 1.0 - < 3.0 %	Naphthalenesulfoni c acid, formaldehyde ammonium salt copolymer	Eye Irrit 2 - H319
CASRN 2634-33-5 EC-No. 220-120-9 Index-No. 613-088-00-6	_	>= 0.025 - < 0.05 %	1,2-benzisothiazol- 3(2H)-one	Acute Tox 4 - H302 Skin Irrit 2 - H315 Eye Dam 1 - H318 Skin Sens 1 - H317 Aquatic Acute - 1 - H400 Aquatic Chronic - 3 - H412

For the full text of the H-Statements mentioned in this Section, see Section 16.

# **SECTION 4: FIRST AID MEASURES**

# 4.1 Description of first aid measures

# General advice:

If potential for exposure exists refer to Section 8 for specific personal protective equipment.

**Inhalation:** 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.

**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.

**Eye contact:** Hold eyes 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 eyes. Call a poison control center or doctor for treatment advice.

Ingestion: No emergency medical treatment necessary.

# 4.2 Most important symptoms and effects, both acute and delayed:

Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicology Information.

## 4.3 Indication of any immediate medical attention and special treatment needed

**Notes to physician:** No specific antidote. 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.

# SECTION 5: FIREFIGHTING MEASURES

## 5.1 Extinguishing media

Suitable extinguishing media: Water spray Alcohol-resistant foam

Unsuitable extinguishing media: None known.

#### 5.2 Special hazards arising from the substance or mixture

**Hazardous combustion products:** 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 dioxide. Carbon monoxide.

**Unusual Fire and Explosion Hazards:** Exposure to combustion products may be a hazard to health. Do not allow run-off from fire fighting to enter drains or water courses.

#### 5.3 Advice for firefighters

**Fire Fighting Procedures:** 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.

Remove undamaged containers from fire area if it is safe to do so. Evacuate area. Use extinguishing measures that are appropriate to local circumstances 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.

# SECTION 6: ACCIDENTAL RELEASE MEASURES

**6.1 Personal precautions, protective equipment and emergency procedures:** Use personal protective equipment. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

**6.2 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 cannot be contained. Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information.

**6.3 Methods and materials for containment and cleaning up:** Clean up remaining materials from spill with suitable absorbant. 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 overpressurization 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). See Section 13, Disposal Considerations, for additional information.

# 6.4 Reference to other sections:

See sections: 7, 8, 11, 12 and 13.

# SECTION 7: HANDLING AND STORAGE

**7.1 Precautions for safe handling:** Do not breathe vapours/dust. Do not smoke. Handle in accordance with good industrial hygiene and safety practice. Smoking, eating and drinking should be prohibited in the application 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.

**7.2 Conditions for safe storage, including any incompatibilities:** 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.

Do not store with the following product types: Strong oxidizing agents. Unsuitable materials for containers: None known.

7.3 Specific end use(s): Refer to product label.

# **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

## 8.1 Control parameters

If exposure limits exist, they are listed below. If no exposure limits are displayed, then no values are applicable.

Component	Regulation	Type of listing	Value/Notation
Propylene glycol	US WEEL	TWA	10 mg/m3
	GB EH40	TWA	474 mg/m3 150 ppm
	GB EH40	TWA	10 mg/m3
	GB EH40	TWA particles	10 mg/m3
	GB EH40	TWA Total vapour	474 mg/m3 150 ppm
		and particles	
1,2-benzisothiazol-3(2H)-one	Dow IHG	TWA	0.06 mg/m3
	Dow IHG	STEL	0.1 mg/m3

RECOMMENDATIONS IN THIS SECTION ARE FOR MANUFACTURING, COMMERCIAL BLENDING AND PACKAGING WORKERS. APPLICATORS AND HANDLERS SHOULD SEE THE PRODUCT LABEL FOR PROPER PERSONAL PROTECTIVE EQUIPMENT AND CLOTHING.

Derived No Effect Leve Propylene glycol	I		
Workers			
Acute systemic effects	Acute local effects	Long-term systemic	Long-term local effects

				effects			
Dermal	Inhalation	Dermal	Inhalation	Dermal	Inhalation	Dermal	Inhalation
n.a.	n.a.	n.a.	n.a.	n.a.	168 mg/m3	n.a.	10 mg/m3

#### Consumers

Acute	systemic e	ffects Acute local effects Long-term systemic effects			Long-term local effects				
Dermal	Inhalation	Oral	Dermal	Inhalation	Dermal	Inhalation	Oral	Dermal	Inhalation
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	50 mg/m3	n.a.	n.a.	10 mg/m3

# Predicted No Effect Concentration

PNEC
260 mg/l
26 mg/l
183 mg/l
20000 mg/l
572 mg/kg dry weight (d.w.)
57.2 mg/kg dry weight (d.w.)
50 mg/kg dry weight (d.w.)

# 8.2 Exposure controls

**Engineering controls:** 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.

## Individual protection measures

**Eye/face protection:** Use safety glasses (with side shields). Safety glasses (with side shields) should be consistent with EN 166 or equivalent.

# **Skin protection**

Hand protection: Use gloves chemically resistant to this material when prolonged or frequently repeated contact could occur. Use chemical resistant gloves classified under Standard EN374: Protective gloves against chemicals and micro-organisms. Examples of preferred glove barrier materials include: Neoprene. Nitrile/butadiene rubber ("nitrile" or "NBR"). Polyvinyl chloride ("PVC" or "vinyl"). When prolonged or frequently repeated contact may occur, a glove with a protection class of 3 or higher (breakthrough time greater than 60 minutes according to EN 374) is recommended. Glove thickness alone is not a good indicator of the level of protection a glove provides against a chemical substance as this level of protection is also highly dependent on the specific composition of the material that the glove is fabricated from. The thickness of the glove must, depending on model and type of material, generally be more than 0.35 mm to offer sufficient protection for prolonged and frequent contact with the substance. As an exception to this general rule it is known that multilayer laminate gloves may offer prolonged protection at thicknesses less than 0.35 mm. Other glove materials with a thickness of less than 0.35 mm may offer sufficient protection when only brief contact is expected. 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.

Other protection: Wear clean, body-covering clothing.

**Respiratory protection:** Respiratory protection should be worn when there is a potential 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. For most conditions no respiratory protection should be needed; however, if discomfort is experienced, use an approved air-purifying respirator.

Use the following CE approved air-purifying respirator: Organic vapor cartridge with a particulate pre-filter, type AP2 (meeting standard EN 14387).

#### **Environmental exposure controls**

See SECTION 7: Handling and storage and SECTION 13: Disposal considerations for measures to prevent excessive environmental exposure during use and waste disposal.

# **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

#### 9.1 Information on basic physical and chemical properties

Appearance

Appearance	
Physical state	Liquid.
Color	Off-white
Odor	Musty
Odor Threshold	No data available
рН	7.15 1% pH Electrode (1% aqueous suspension)
Melting point/range	Not applicable
Freezing point	No data available
Boiling point (760 mmHg)	No data available
Flash point	closed cup > 200 °C Closed Cup
Evaporation Rate (Butyl Acetate	No data available
= 1)	
Flammability (solid, gas)	Not applicable to liquids
Lower explosion limit	No data available
Upper explosion limit	No data available
Vapor Pressure	No data available
Relative Vapor Density (air = 1)	No data available
Relative Density (water = 1)	No data available
Water solubility	Dispersible
Partition coefficient: n-	No data available
octanol/water	
Auto-ignition temperature	> 400 °C EC Method A15 Ramped Temperature
Decomposition temperature	No data available
Kinematic Viscosity	No data available
Explosive properties	No
Oxidizing properties	No, No significant increase (>5C) in temperature.

# 9.2 Other information Liquid Density Molecular weight

1.025 g/mL at 20 °C *Digital density meter* No data available

NOTE: The physical data presented above are typical values and should not be construed as a specification.

# SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity: Not classified as a reactivity hazard.

**10.2 Chemical stability:** No decomposition if stored and applied as directed. Stable under normal conditions.

# 10.3 Possibility of hazardous reactions: None known.

Polymerization will not occur. No hazards to be specially mentioned.

10.4 Conditions to avoid: None known.

10.5 Incompatible materials: None.

**10.6 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 dioxide carbon monoxide

# SECTION 11: TOXICOLOGICAL INFORMATION

Toxicological information appears in this section when such data is available.

# 11.1 Information on toxicological effects

# Acute toxicity

## Acute oral toxicity

Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts.

As product: LD50, Rat, female, > 5,000 mg/kg OECD Test Guideline 423

## Acute dermal toxicity

Prolonged skin contact is unlikely to result in absorption of harmful amounts.

As product: LD50, Rat, male and female, > 5,000 mg/kg OECD Test Guideline 402

## Acute inhalation toxicity

No adverse effects are anticipated from single exposure to mist. Based on the available data, respiratory irritation was not observed.

As product:

LC50, Rat, 4 Hour, Aerosol, > 5.04 mg/l OECD Test Guideline 403

#### Skin corrosion/irritation

Brief contact is essentially nonirritating to skin.

#### Serious eye damage/eye irritation

May cause slight eye irritation. Corneal injury is unlikely.

## Sensitization

For skin sensitization: Did not demonstrate the potential for contact allergy in mice.

For respiratory sensitization: No relevant data found.

#### Specific Target Organ Systemic Toxicity (Single Exposure)

Evaluation of available data suggests that this material is not an STOT-SE toxicant.

#### Specific Target Organ Systemic Toxicity (Repeated Exposure)

For the active ingredient(s):

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.

For the minor component(s):

In animals, effects have been reported on the following organs after exposure to aerosols: Lung.

#### Carcinogenicity

For the active ingredient(s): Did not cause cancer in laboratory animals.

#### Teratogenicity

For the active ingredient(s): Did not cause birth defects or other effects in the fetus even at doses which caused toxic effects in the mother.

#### **Reproductive toxicity**

For the active ingredient(s): In animal studies, has been shown to interfere with reproduction.

#### Mutagenicity

In vitro genetic toxicity studies were negative. Animal genetic toxicity studies were negative.

## **Aspiration Hazard**

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

# SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicological information appears in this section when such data is available.

#### 12.1 Toxicity

#### Acute toxicity to fish

Material is toxic to aquatic organisms (LC50/EC50/IC50 between 1 and 10 mg/L in the most sensitive species).

LC50, Lepomis macrochirus (Bluegill sunfish), semi-static test, 96 Hour, > 48.2 mg/l

#### Acute toxicity to aquatic invertebrates

EC50, Daphnia magna (Water flea), semi-static test, 48 Hour, > 42.8 mg/l

EC50, Chironomus riparius (harlequin fly), Static, 48 Hour, 4.1 mg/l

#### Acute toxicity to algae/aquatic plants

EC50, diatom Navicula sp., 72 Hour, Growth inhibition (cell density reduction), 1.098 mg/l

#### **Toxicity to Above Ground Organisms**

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

oral LD50, Colinus virginianus (Bobwhite quail), > 2250mg/kg bodyweight.

oral LD50, Apis mellifera (bees), 96 Hour, 0.32micrograms/bee

contact LD50, Apis mellifera (bees), 96 Hour, 0.17micrograms/bee

## Toxicity to soil-dwelling organisms

LC50, Eisenia fetida (earthworms), 14 d, survival, > 8,560 mg/kg

# 12.2 Persistence and degradability

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

Biodegradability: Material is expected to biodegrade very slowly (in the environment). Fails to pass OECD/EEC tests for ready biodegradability.
10-day Window: Fail
Biodegradation: 0.1 - 9.1 %
Exposure time: 28 d
Method: OECD Test Guideline 301B or Equivalent

#### Naphthalenesulfonic acid, formaldehyde ammonium salt copolymer Biodegradability: No relevant data found.

## 1,2-benzisothiazol-3(2H)-one

**Biodegradability:** Abiotic degradation: The material is rapidly degradable by abiotic means.

Biodegradation: 24 % Exposure time: 28 d Method: OECD Test Guideline 301B or Equivalent

#### 12.3 Bioaccumulative potential

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

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

Partition coefficient: n-octanol/water(log Pow): 4.49 at 20 °C Bioconcentration factor (BCF): 348 Oncorhynchus mykiss (rainbow trout) 28 d

# Naphthalenesulfonic acid, formaldehyde ammonium salt copolymer

Bioaccumulation: No relevant data found.

# 1,2-benzisothiazol-3(2H)-one

**Bioaccumulation:** Bioconcentration potential is low (BCF < 100 or Log Pow < 3). **Partition coefficient:** n-octanol/water(log Pow): 1.19 OECD Test Guideline 117 or Equivalent **Bioconcentration factor (BCF):** 3.2 Fish Calculated.

# 12.4 Mobility in soil

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

Potential for mobility in soil is slight (Koc between 2000 and 5000).

# Naphthalenesulfonic acid, formaldehyde ammonium salt copolymer

No relevant data found.

# 1,2-benzisothiazol-3(2H)-one

Potential for mobility in soil is high (Koc between 50 and 150). 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. **Partition coefficient (Koc):** 104 Estimated.

## 12.5 Results of PBT and vPvB assessment

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

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).

## Naphthalenesulfonic acid, formaldehyde ammonium salt copolymer

This substance has not been assessed for persistence, bioaccumulation and toxicity (PBT).

## 1,2-benzisothiazol-3(2H)-one

This substance has not been assessed for persistence, bioaccumulation and toxicity (PBT).

## 12.6 Other adverse effects

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

This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

# Naphthalenesulfonic acid, formaldehyde ammonium salt copolymer

This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

## 1,2-benzisothiazol-3(2H)-one

This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

# **SECTION 13: DISPOSAL CONSIDERATIONS**

## 13.1 Waste treatment methods

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 regulations. If the material as supplied becomes a waste, follow all applicable regional, national and local laws.

The definitive assignment of this material to the appropriate EWC group and thus its proper EWC code will depend on the use that is made of this material. Contact the authorized waste disposal services.

# **SECTION 14: TRANSPORT INFORMATION**

#### Classification for ROAD and Rail transport (ADR/RID):

14.1	UN number	UN 3082	
14.2	UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Spinetoram)	
14.3	Transport hazard class(es)	9	
14.4	Packing group	III	
14.5	Environmental hazards	Spinetoram	
14.6	Special precautions for user		
		Hazard Identification Number: 90	
Classification for SEA transport (IMO-IMDG):			
	UN number	UN 3082	
14.2	UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Spinetoram)	
14.3	Transport hazard class(es)	9	
14.4	Packing group	III	
14.5	Environmental hazards	Spinetoram	
14.6	Special precautions for user	EmS: F-A, S-F	
14.7	Transport in bulk according to Annex I or II of MARPOL 73/78 and the IBC or IGC Code	Consult IMO regulations before transporting ocean bulk	
Classification for AIR transport (IATA/ICAO):			
	UN number	UN 3082	
14.2	UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s.(Spinetoram)	
14.3	Transport hazard class(es)	9	

14.4	Packing group	III
14.5	Environmental hazards	Not applicable
14.6	Special precautions for user	No data available.

# 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.

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

# SECTION 15: REGULATORY INFORMATION

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

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

Listed in Regulation: ENVIRONMENTAL HAZARDS Number in Regulation: E1 100 t 200 t

## 15.2 Chemical safety assessment

For proper and safe use of this product, please refer to the approval conditions laid down on the product label.

Chemical Safety Assessments are not required for Plant Protection Products authorised under Regulation EC 1107/2009.

# **SECTION 16: OTHER INFORMATION**

## Full text of H-Statements referred to under sections 2 and 3.

- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H361f Suspected of damaging fertility.

H410 Very toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

# Classification and procedure used to derive the classification for mixtures according to Regulation (EC) No 1272/2008

Repr. - 2 - H361f - Based on product data or assessment Aquatic Acute - 1 - H400 - Calculation method Aquatic Chronic - 1 - H410 - Calculation method

# Revision

Identification Number: / Issue Date: 23.04.2021 / Version: 0.0 DAS Code: GF-1587 Most recent revision(s) are noted by the bold, double bars in left-hand margin throughout this document.

#### Legend

Dow Industrial Hygiene Guideline
UK. EH40 WEL - Workplace Exposure Limits
Short term exposure limit
8-hr TWA
USA. Workplace Environmental Exposure Levels (WEEL)
Acute toxicity
Short-term (acute) aquatic hazard
Long-term (chronic) aquatic hazard
Serious eye damage
Eye irritation
Reproductive toxicity
Skin irritation
Skin sensitization

## Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways: ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008: CMR - Carcinogen, Mutagen or Reproductive Toxicant: DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; 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; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; 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; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

## 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.

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