According to UK REACH and COSHH Regulations, and their amendments



Vivolt

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

1.0 06.01.2025 800080006483 Date of first issue: 06.01.2025

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 Great Britain and may not meet the regulatory requirements in other countries.

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name : Vivolt

Unique Formula Identifier : E2QQ-5073-R008-XR66

(UFI)

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

Use of the Sub- : Surfactant

stance/Mixture

1.3 Details of the supplier of the safety data sheet

COMPANY IDENTIFICATION

Manufacturer/importer

Corteva Agriscience UK Ltd Melbourn Science Park - Cambridge Road - Unit H4, Building H Melbourn Cambridgeshire - SG8 6HB UNITED KINGDOM

Customer Information : +44 1462 457272

Number

E-mail address : SDS@corteva.com

1.4 Emergency telephone number

+44 161 88 41235

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Acute toxicity, Category 4 H302: Harmful if swallowed.

Serious eye damage, Category 1 H318: Causes serious eye damage.

™ ® Trademarks of Corteva Agriscience and its affiliated companies.

According to UK REACH and COSHH Regulations, and their amendments



Vivolt

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

1.0 06.01.2025 800080006483 Date of first issue: 06.01.2025

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Hazard pictograms :





Signal word : Danger

Hazard statements : H302 Harmful if swallowed.

H318 Causes serious eye damage.

Precautionary statements : Prevention:

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this prod-

uct.

P280 Wear protective gloves/ protective clothing/ eye

protection/ face protection.

Response:

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously

with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.

Disposal:

P501 Dispose of contents/container to a licensed haz-

ardous-waste disposal contractor or collection site except for empty clean containers whichcan be

disposed of as non-hazardous waste.

Hazardous components which must be listed on the label:

Poly(oxy-1,2-ethanediyl), .alpha.-isodecyl-.omega.-hydroxy-

Additional Labelling

EUH401 To avoid risks to human health and the environment, comply with the instruc-

tions for use.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

According to UK REACH and COSHH Regulations, and their amendments



Vivolt

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

1.0 06.01.2025 800080006483 Date of first issue: 06.01.2025

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No.	Classification	Concentration
	EC-No.		(% w/w)
	Index-No.		
	Registration number		
Poly(oxy-1,2-ethanediyl), .alpha	61827-42-7	Acute Tox. 4; H302	90
isodecylomegahydroxy-		Eye Dam. 1; H318	

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : Never give anything by mouth to an unconscious person.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

If inhaled : Remove person to fresh air. If signs/symptoms continue, get

medical attention.

Artificial respiration and/or oxygen may be necessary.

In case of skin contact : Take off all contaminated clothing immediately.

Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

In case of eye contact : If easy to do, remove contact lens, if worn.

Hold eye open and rinse slowly and gently with water for 15-

20 minutes.

If eye irritation persists, consult a specialist.

If swallowed : Call a poison control center or doctor for treatment advice.

Have person sip a glass of water if able to swallow.

DO NOT induce vomiting unless directed to do so by a physi-

cian or poison control center.

Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : No cases of human intoxication are known and the symptoms

of experimental intoxication are not known.

According to UK REACH and COSHH Regulations, and their amendments



Vivolt

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

1.0 06.01.2025 800080006483 Date of first issue: 06.01.2025

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Water spray

Carbon dioxide (CO2)

Regular foam

Unsuitable extinguishing

media

High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-

fighting

Exposure to combustion products may be a hazard to health.

Hazardous combustion prod: :

ucts

Nitrogen oxides (NOx)

Carbon oxides

5.3 Advice for firefighters

Special protective equipment :

for firefighters

Wear self-contained breathing apparatus for firefighting if nec-

essary. Use personal protective equipment.

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.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use appropriate safety equipment. For additional information,

refer to Section 8, Exposure Controls and Personal Protection.

6.2 Environmental precautions

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.

According to UK REACH and COSHH Regulations, and their amendments



Vivolt

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

06.01.2025 800080006483 Date of first issue: 06.01.2025 1.0

6.3 Methods and material for containment and cleaning up

Methods for 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).

See Section 13, Disposal Considerations, for additional infor-

mation.

6.4 Reference to other sections

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling Do not breathe vapours/dust.

Handle in accordance with good industrial hygiene and safety

practice.

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

plication area.

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.

Handle in accordance with good industrial hygiene and safety Hygiene measures

practice. Regular cleaning of equipment, work area and clothing. Keep working clothes separately. Contaminated work clothing should not be allowed out of the workplace. Wash hands and face before breaks and immediately after handling

the product.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

Store in a closed container. Keep in properly labelled containers. Store in accordance with the particular national regula-

tions.

Advice on common storage Strong oxidizing agents

Packaging material Unsuitable material: None known.

7.3 Specific end use(s)

Specific use(s) Plant protection products subject to Regulation (EC) No

1107/2009.

According to UK REACH and COSHH Regulations, and their amendments



Vivolt

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

1.0 06.01.2025 800080006483 Date of first issue: 06.01.2025

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Engineering measures

Use only with adequate ventilation.

Personal protective equipment

Eye/face protection : Safety glasses with side-shields conforming to EN166

Wear safety glasses with side shields.

Additionally wear a face shield where the possibility exists for face contact due to splashing, spraying or airborne contact

with this material.

Hand protection

Remarks : Protective gloves

Use gloves chemically resistant to this material. Examples of preferred glove barrier materials include: Butyl rubber. Natural rubber ("latex"). Neoprene. Nitrile/butadiene rubber ("nitrile" or "NBR"). Polyethylene. Ethyl vinyl alcohol laminate ("EVAL"). 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 instruc-

tions/specifications provided by the glove supplier.

Skin and body protection : Use protective clothing chemically resistant to this material.

Selection of specific items such as face shield, boots, apron,

or full body suit will depend on the task.

Respiratory protection : Where there is potential for airborne exposures in excess of

applicable limits, wear approved respiratory protection with

dust/mist cartridge.

Protective measures : The type of protective equipment must be selected according

to the concentration and amount of the dangerous substance

at the specific workplace.

All chemical protective clothing should be visually inspected prior to use. Clothing and gloves should be replaced in case of

chemical or physical damage or if contaminated.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : liquid
Colour : colourless
Odour : slight

According to UK REACH and COSHH Regulations, and their amendments



Vivolt

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

1.0 06.01.2025 800080006483 Date of first issue: 06.01.2025

Odour Threshold : No data available

pH : 5-7

Concentration: 10 g/L

Melting point/freezing point : Not applicable

Boiling point/boiling range : not determined

Flash point : 130 - 199 °C

Evaporation rate : No data available

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower :

flammability limit

No data available

Vapour pressure : < 1.33 hPa (20 °C)

Relative vapour density : No data available

Relative density : 1 (20 °C)

Density : 1.0 g/cm3 (25 °C)

Solubility(ies)

Water solubility : completely soluble Auto-ignition temperature : No data available

Viscosity

Viscosity, dynamic : 75 mPa,s (20 °C)

Viscosity, kinematic : 75 mm2/s (20 °C)

Explosive properties : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

9.2 Other information

Self-ignition : > 100 °C

SECTION 10: Stability and reactivity

10.1 Reactivity

Not classified as a reactivity hazard.

According to UK REACH and COSHH Regulations, and their amendments



Vivolt

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

1.0 06.01.2025 800080006483 Date of first issue: 06.01.2025

10.2 Chemical stability

No decomposition if stored and applied as directed.

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : Stable under recommended storage conditions.

No hazards to be specially mentioned.

None known.

10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid : Strong acids

Strong bases

Strong oxidizing agents

10.6 Hazardous decomposition products

Stable under recommended storage conditions.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Components:

Poly(oxy-1,2-ethanediyl), .alpha.-isodecyl-.omega.-hydroxy-:

Acute oral toxicity : LD50 (Rat): > 1,000 mg/kg

Method: Estimated.

Skin corrosion/irritation

Components:

Poly(oxy-1,2-ethanediyl), .alpha.-isodecyl-.omega.-hydroxy-:

Species : Rabbit

Result : Mild skin irritation

Serious eye damage/eye irritation

Components:

Poly(oxy-1,2-ethanediyl), .alpha.-isodecyl-.omega.-hydroxy-:

Species : Rabbit Result : Corrosive

According to UK REACH and COSHH Regulations, and their amendments



Vivolt

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

1.0 06.01.2025 800080006483 Date of first issue: 06.01.2025

Respiratory or skin sensitisation

Product:

Species : Guinea pig

Assessment : Does not cause skin sensitisation.

Method : US EPA Test Guideline OPP 81-6

STOT - single exposure

Product:

Assessment : Available data are inadequate to determine single exposure

specific target organ toxicity.

Components:

Poly(oxy-1,2-ethanediyl), .alpha.-isodecyl-.omega.-hydroxy-:

Assessment : Available data are inadequate to determine single exposure

specific target organ toxicity.

STOT - repeated exposure

Product:

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

an STOT-RE toxicant.

Repeated dose toxicity

Components:

Poly(oxy-1,2-ethanediyl), .alpha.-isodecyl-.omega.-hydroxy-:

Remarks : Based on available data, repeated exposures are not antici-

pated to cause significant adverse effects.

Aspiration toxicity

Product:

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

Components:

Poly(oxy-1,2-ethanediyl), .alpha.-isodecyl-.omega.-hydroxy-:

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

SECTION 12: Ecological information

12.1 Toxicity

Product:

According to UK REACH and COSHH Regulations, and their amendments



Vivolt

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

06.01.2025 800080006483 Date of first issue: 06.01.2025 1.0

Toxicity to fish LC50 (Oncorhynchus mykiss (rainbow trout)): 42 mg/l

Exposure time: 96 h

Remarks: For similar material(s):

aquatic invertebrates

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 40 mg/l

Exposure time: 48 h

Toxicity to soil dwelling or-

ganisms

: > 1,000 mg/kgExposure time: 14 d

Species: Eisenia fetida (earthworms)

Components:

Poly(oxy-1,2-ethanediyl), .alpha.-isodecyl-.omega.-hydroxy-:

Toxicity to fish LC50 (Oncorhynchus mykiss (rainbow trout)): > 10 - 100 mg/l

Exposure time: 96 h

Remarks: For similar material(s):

Toxicity to daphnia and other :

aquatic invertebrates

EC50 : > 10 - 100 mg/lExposure time: 48 h

Remarks: For similar material(s):

Toxicity to algae/aquatic

plants

: EC50 : > 10 - 100 mg/l Exposure time: 72 h

Remarks: For similar material(s):

12.2 Persistence and degradability

Product:

Biodegradability Biodegradation: > 70 %

> Method: OECD Test Guideline 301 Remarks: Readily biodegradable.

Information given is based on data obtained from similar sub-

stances.

Components:

Poly(oxy-1,2-ethanediyl), .alpha.-isodecyl-.omega.-hydroxy-:

Biodegradability Result: Readily biodegradable.

> Biodegradation: > 60 % Exposure time: 28 d

Method: OECD Test Guideline 301B Remarks: For similar material(s):

Material is expected to be readily biodegradable.

12.3 Bioaccumulative potential

Product:

Bioaccumulation Remarks: Does not bioaccumulate.

Estimation based on data obtained on active ingredient.

According to UK REACH and COSHH Regulations, and their amendments



Vivolt

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

06.01.2025 800080006483 Date of first issue: 06.01.2025 1.0

Components:

Poly(oxy-1,2-ethanediyl), .alpha.-isodecyl-.omega.-hydroxy-:

Partition coefficient: n-

octanol/water

: Remarks: No relevant data found.

12.4 Mobility in soil

Product:

Distribution among environmental compartments

: Remarks: The product is not expected to be mobile in soils.

12.5 Results of PBT and vPvB assessment

Product:

Assessment This substance/mixture contains no components considered

> to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

0.1% or higher.

Components:

Poly(oxy-1,2-ethanediyl), .alpha.-isodecyl-.omega.-hydroxy-:

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

cumulation and toxicity (PBT).

12.6 Other adverse effects

Product:

Endocrine disrupting poten-

This substance/mixture does not contain components considered to have endocrine disrupting properties for environment

according to UK REACH Article 57(f).

Additional ecological infor-

mation

Environmental Hazards:

Do not apply directly to water, or to areas where surface water

is present, or to intertidal areas below the mean high water

mark.

See product label for additional application instructions relat-

ing to environmental precautions.

Components:

Poly(oxy-1,2-ethanediyl), .alpha.-isodecyl-.omega.-hydroxy-:

Ozone-Depletion Potential Remarks: 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

Product If wastes and/or containers cannot be disposed of according

According to UK REACH and COSHH Regulations, and their amendments



Vivolt

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

1.0 06.01.2025 800080006483 Date of first issue: 06.01.2025

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.

SECTION 14: Transport information

14.1 UN number

ADR : Not regulated as a dangerous good

RID : Not regulated as a dangerous good

IMDG : Not regulated as a dangerous good

IATA : Not regulated as a dangerous good

14.2 UN proper shipping name

ADR : Not regulated as a dangerous good

RID : Not regulated as a dangerous good

IMDG : Not regulated as a dangerous good

IATA : Not regulated as a dangerous good

14.3 Transport hazard class(es)

ADR : Not regulated as a dangerous good

RID : Not regulated as a dangerous good

IMDG : Not regulated as a dangerous good

IATA : Not regulated as a dangerous good

14.4 Packing group

ADR : Not regulated as a dangerous good

RID : Not regulated as a dangerous good

IMDG : Not regulated as a dangerous good

IATA (Cargo) : Not regulated as a dangerous good

IATA (Passenger) : Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

According to UK REACH and COSHH Regulations, and their amendments



Vivolt

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

1.0 06.01.2025 800080006483 Date of first issue: 06.01.2025

14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mix-

Relevant EU provisions transposed through retained EU law

UK REACH Candidate list of substances of very high : Not applicable

concern (SVHC) for Authorisation

control of major-accident hazards involving

The Persistent Organic Pollutants Regulations (retained : Not applicable

Regulation (EU) 2019/1021 as amended for Great Brit-

ain)

Regulation (EC) on substances that deplete the ozone : Not applicable

laver

UK REACH List of substances subject to authorisation : Not applicable

(Annex XIV)

Seveso III: Directive 2012/18/EU of the Euro-Not applicable pean Parliament and of the Council on the

dangerous substances.

15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance when it is used in the specified applications.

The mixture is evaluated within the frame of the provisions of Regulation (EC) No. 1107/2009. Refer to the label for exposure assessment information.

SECTION 16: Other information

Full text of H-Statements

H302 : Harmful if swallowed.

H318 : Causes serious eye damage.

Full text of other abbreviations

Acute Tox. : Acute toxicity
Eye Dam. : Serious eye damage

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

13 / 14

Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships;

According to UK REACH and COSHH Regulations, and their amendments



Vivolt

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

1.0 06.01.2025 800080006483 Date of first issue: 06.01.2025

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 - United Nations.

Further information

Other information : Take notice of the directions of use on the label.

Classification of the mixture: Classification procedure:

Acute Tox. 4 H302 Based on product data or assessment Eye Dam. 1 H318 Based on product data or assessment

Product code: 3PP-Trend90

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.

GB / 6N