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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 Ireland 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 : DOXSTAR® PRO

Unique Formula Identifier : 6GN5-V0GW-W00J-4J6N

(UFI)

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

Use of the Sub- : Plant Protection Product, Herbicide

stance/Mixture

1.3 Details of the supplier of the safety data sheet

COMPANY IDENTIFICATION

Manufacturer/importer

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

UNITED KINGDOM

Customer Information : +44 8006 89 8899

Number

E-mail address : SDS@corteva.com

1.4 Emergency telephone number

SGS: +353 818 663 627

National Poisons Information Centre (Beaumont Hospital): 01 809 2166 (8 AM - 10 PM)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin sensitisation, Sub-category 1B H317: May cause an allergic skin reaction.

Specific target organ toxicity - repeated H373: May cause damage to organs through pro-

exposure, Category 2 longed or repeated exposure.

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according to Regulation (EC) No. 1907/2006, Annex II and its amendments.



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Short-term (acute) aquatic hazard, Cate-

gory 1

Long-term (chronic) aquatic hazard, Cat-

egory 1

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting

effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms



Signal word : Warning

Hazard statements : H317 May cause an allergic skin reaction.

H373 May cause damage to organs (Kidney) through pro-

longed or repeated exposure.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements : Prevention:

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

P280 Wear protective gloves/ protective clothing.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and

water.

P333 + P313 If skin irritation or rash occurs: Get medical

advice/ attention.
P391 Collect spillage.

Disposal:

P501 Dispose of contents/container to a licensed waste disposal contractor or collection site except for empty clean triple rinsed containers which can be disposed of as non-hazardous

waste.

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.

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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. EC-No. Index-No. REACH Registration number	Classification	Concentration (% w/w)
fluroxypyr-meptyl (ISO)	81406-37-3 279-752-9 607-272-00-5	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	21.81
Triclopyr-2-butoxyethyl ester	64700-56-7 265-024-8	Acute Tox. 4; H302 Skin Sens. 1; H317 STOT RE 2; H373 (Kidney) Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10	20.45
Benzenesulfonic acid, C10-13- alkyl derivs., calcium salt	1335202-81-7 01-2119560592-37	Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 3; H412	>= 3 - < 10
2-methylpropan-1-ol	78-83-1 201-148-0 603-108-00-1	Flam. Liq. 3; H226 Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H336 (Central nervous system) STOT SE 3; H335 (Respiratory system)	>= 1 - < 3

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

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

according to Regulation (EC) No. 1907/2006, Annex II and its amendments.



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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.

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. Wash skin with soap and

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

or doctor for treatment advice.

Wash clothing before reuse. Shoes and other leather items which cannot be decontaminated should be disposed of

properly.

In case of 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.

Suitable emergency eye wash facility should be available in

work area.

If swallowed : Call a poison control center or doctor immediately for treat-

ment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison

control center or doctor.

Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

None known.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Skin contact may aggravate preexisting dermatitis.

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 Carbon dioxide (CO2)

Unsuitable extinguishing : Do not use direct water stream.

according to Regulation (EC) No. 1907/2006, Annex II and its amendments.



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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.

Vapours may form explosive mixtures with air.

Do not allow run-off from fire fighting to enter drains or water

courses.

Flash back possible over considerable distance.

Hazardous combustion prod- :

ucts

Nitrogen oxides (NOx)

Carbon oxides

5.3 Advice for firefighters

Special protective equipment :

for firefighters

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

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.

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.

Further information : Use water spray to cool fire exposed containers and fire af-

fected zone until fire is out and danger of reignition has

passed.

Do not use a solid water stream as it may scatter and spread

fire.

Use a water spray to cool fully closed 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.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.

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.

according to Regulation (EC) No. 1907/2006, Annex II and its amendments.



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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, underwater.

See Section 12, Ecological Information.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Clean up remaining materials from spill with suitable absorb-

ant.

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).

Non-sparking tools should be used.

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local

/ national regulations (see section 13).

Suppress (knock down) gases/vapours/mists with a water

spray jet.

See Section 13, Disposal Considerations, for additional infor-

mation.

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

Local/Total ventilation : Use with local exhaust ventilation.

Advice on safe handling : Avoid formation of aerosol.

Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being

used.

Provide sufficient air exchange and/or exhaust in work rooms.

Do not breathe vapours/dust.

Do not smoke.

Handle in accordance with good industrial hygiene and safety

practice.

Avoid exposure - obtain special instructions before use.

according to Regulation (EC) No. 1907/2006, Annex II and its amendments.



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

plication area.

Do not get on skin or clothing. Avoid inhalation of vapour or mist.

Do not swallow.

Avoid contact with skin and eyes.

Avoid contact with eyes. Keep container tightly closed.

Keep away from heat and sources of ignition.

Take precautionary measures against static discharges.

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

Requirements for storage areas and containers

: Store in a closed container. No smoking. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep in properly labelled containers. Store in ac-

cordance with the particular national regulations.

Advice on common storage : Strong oxidizing agents

Explosives Gases

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.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
2-methylpropan-1- ol	78-83-1	Occupational exposure limit value (15-minute reference period)	75 ppm 225 mg/m3	IE OEL
		Occupational exposure limit value (8-hour reference period)	50 ppm 150 mg/m3	IE OEL
		Short term expo- sure limit	75 ppm	Corteva OEL
		Time weighted average	50 ppm	Corteva OEL

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

according to Regulation (EC) No. 1907/2006, Annex II and its amendments.



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Substance name	End Use	Exposure routes	Potential health effects	Value		
2-methylpropan-1-ol	Workers	Skin contact	Acute systemic effects			
	Remarks:No da	ata available	•			
	Workers	Inhalation	Acute systemic effects			
	Remarks:No data available					
	Workers	Skin contact	Acute systemic ef-			
			fects			
	Remarks:No data available					
	Workers	Inhalation	Acute systemic ef- fects			
	Remarks:No data available					
	Workers	Skin contact	Long-term systemic effects			
	Remarks:No da	Remarks:No data available				
	Workers	Inhalation	Long-term systemic effects			
	Remarks:No data available					
	Workers	Skin contact	Long-term local ef- fects			
	Remarks:No da	ata available	10000			
	Workers	Inhalation	Long-term local effects	310 mg/m3		
	Consumers	Skin contact	Acute systemic ef- fects			
	Remarks:No data available					
	Consumers	Inhalation	Acute systemic ef- fects			
	Remarks:No data available					
	Consumers	Skin contact	Acute local effects			
	Remarks:No data available					
	Consumers	Inhalation	Acute local effects			
	Remarks:No data available					
	Consumers	Skin contact	Long-term systemic effects			
	Remarks:No da	ata available				
	Consumers	Inhalation	Long-term systemic effects			
	Remarks:No data available					
	Consumers	Skin contact	Long-term local ef- fects			
	Remarks:No data available					
	Consumers	Ingestion	Long-term local ef- fects	25 mg/kg bw/day		
	Consumers	Inhalation	Long-term local effects	55 mg/m3		

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
2-methylpropan-1-ol	Fresh water	0.4 mg/l

according to Regulation (EC) No. 1907/2006, Annex II and its amendments.



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Marine water	0.04 mg/l
Intermittent use/release	11 mg/l
Sewage treatment plant	10 mg/l
Soil	0.0699 mg/kg dry weight (d.w.)
Fresh water sediment	1.52 mg/kg dry weight (d.w.)
Marine sediment	0.152 mg/kg dry weight (d.w.)

8.2 Exposure controls

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

Eye/face protection : Use chemical goggles.

Chemical goggles should be consistent with EN 166 or

equivalent.

Hand protection

Remarks : Use chemical resistant gloves classified under Standard

EN374: Protective gloves against chemicals and microorganisms. Examples of preferred glove barrier materials include: Butyl rubber, Chlorinated polyethylene, Polyethylene, Ethyl vinyl alcohol laminate ("EVAL"). Examples of acceptable glove barrier materials include: Natural rubber ("latex"). Neoprene. Nitrile/butadiene rubber ("nitrile" or "NBR"). Polyvinyl chloride ("PVC" or "vinyl"). Viton. When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN 374) is recommended. When only brief contact is expected, 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

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protection, dexterity, thermal protection), potential body reac-

tions to glove materials, as well as the instructions/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 : 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.

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

air-purifying respirator.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state : Liquid.

Colour : Yellow

Odour : Mild

Odour Threshold : No data available

Melting point/range : No data available

Freezing point No data available

Boiling point/boiling range : No data available

Flammability : No data available

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower

flammability limit

No data available

Flash point : 85 °C

Method: ASTM D 93, closed cup

GLP: yes

Auto-ignition temperature : No data available

pH : 5.15 (24.0 °C)

Concentration: 1 %

GLP: yes

according to Regulation (EC) No. 1907/2006, Annex II and its amendments.



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Viscosity

Viscosity, dynamic : 20.5 mPa,s (20 °C)

Method: OECD 114

GLP: yes

9.56 mPa,s (40 °C) Method: OECD 114

GLP: yes

Solubility(ies)

Water solubility : Emulsion

Vapour pressure : No data available

Density : 1.02 g/cm3 (20 °C)

GLP: yes

Bulk density : No data available

Relative vapour density : No data available

9.2 Other information

Explosives : No

Method: Thermal

GLP: yes

Oxidizing properties : No

Reference substance: Monoammonium phosphateGLP: yes

Evaporation rate : No data available

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

Hazardous reactions : Stable under recommended storage conditions.

No hazards to be specially mentioned. Vapours may form explosive mixture with air.

May form explosive dust-air mixture.

10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

according to Regulation (EC) No. 1907/2006, Annex II and its amendments.



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10.5 Incompatible materials

Materials to avoid : Strong acids

Strong bases

10.6 Hazardous decomposition products

Carbon oxides

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Product:

Acute oral toxicity : LD50 (Rat): 3,899 mg/kg

GLP: yes

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

Symptoms: No deaths occurred at this concentration.

GLP: yes

Components:

fluroxypyr-meptyl (ISO):

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg

Symptoms: No deaths occurred at this concentration.

Assessment: The substance or mixture has no acute oral tox-

icity

Acute inhalation toxicity : LC50 (Rat, male and female): > 1.16 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

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

tion toxicity

Remarks: Maximum attainable concentration.

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

Triclopyr-2-butoxyethyl ester:

Acute oral toxicity : LD50 (Rat, male and female): 803 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 4.8 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Symptoms: The LC50 value is greater than the Maximum

according to Regulation (EC) No. 1907/2006, Annex II and its amendments.



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Attainable Concentration.

Assessment: The substance or mixture has no acute inhala-

tion toxicity

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

Benzenesulfonic acid, C10-13-alkyl derivs., calcium salt:

Acute oral toxicity : LD50 (Rat, female): 4,445 mg/kg

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

Assessment: The substance or mixture has no acute dermal

toxicity

2-methylpropan-1-ol:

Acute oral toxicity : LD50 (Rat, female): 3,350 mg/kg

Method: OECD 401 or equivalent

Acute inhalation toxicity : LC50 (Rat, male and female): > 28.2 mg/l

Exposure time: 6 h
Test atmosphere: vapour

Assessment: The substance or mixture has no acute inhala-

tion toxicity

LC50 (Rat, male and female): > 8000 ppm

Exposure time: 4 h
Test atmosphere: vapour

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

Method: OECD Test Guideline 402 Target Organs: Central nervous system

Symptoms: No deaths occurred at this concentration.

Skin corrosion/irritation

Product:

Species : Rabbit

Method : OECD Test Guideline 404

Result : No skin irritation

Components:

fluroxypyr-meptyl (ISO):

Species : Rabbit

Result : No skin irritation

Triclopyr-2-butoxyethyl ester:

Species : Rabbit

according to Regulation (EC) No. 1907/2006, Annex II and its amendments.



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Result : No skin irritation

Benzenesulfonic acid, C10-13-alkyl derivs., calcium salt:

Result : Skin irritation

2-methylpropan-1-ol:

Species : Rabbit Result : Skin irritation

Serious eye damage/eye irritation

Product:

Species : Rabbit

Method : OECD Test Guideline 405

Result : No eye irritation

Components:

Triclopyr-2-butoxyethyl ester:

Species : Rabbit

Result : No eye irritation

Benzenesulfonic acid, C10-13-alkyl derivs., calcium salt:

Result : Corrosive

2-methylpropan-1-ol:

Species : Rabbit Result : Corrosive

Respiratory or skin sensitisation

Product:

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

Components:

fluroxypyr-meptyl (ISO):

Species : Guinea pig

Assessment : Does not cause skin sensitisation.

Triclopyr-2-butoxyethyl ester:

Species : Guinea pig

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

Benzenesulfonic acid, C10-13-alkyl derivs., calcium salt:

Remarks : For skin sensitization:

according to Regulation (EC) No. 1907/2006, Annex II and its amendments.



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Did not cause allergic skin reactions when tested in guinea

pigs.

Remarks : For respiratory sensitization:

No relevant data found.

Germ cell mutagenicity

Components:

fluroxypyr-meptyl (ISO):

Germ cell mutagenicity- As-

sessment

In vitro genetic toxicity studies were negative., Animal genetic

toxicity studies were negative.

Triclopyr-2-butoxyethyl ester:

Germ cell mutagenicity- As-

sessment

In vitro genetic toxicity studies were negative., Animal genetic

toxicity studies were negative.

Benzenesulfonic acid, C10-13-alkyl derivs., calcium salt:

Germ cell mutagenicity- As-

sessment

In vitro genetic toxicity studies were negative., Animal genetic

toxicity studies were negative.

2-methylpropan-1-ol:

Germ cell mutagenicity- As-

sessment

In vitro genetic toxicity studies were predominantly negative.,

Animal genetic toxicity studies were negative.

Carcinogenicity

Components:

fluroxypyr-meptyl (ISO):

Carcinogenicity - Assessment

For similar active ingredient(s)., Fluroxypyr., Did not cause

cancer in laboratory animals.

Triclopyr-2-butoxyethyl ester:

Carcinogenicity - Assess-

ment

For similar active ingredient(s)., Triclopyr., Did not cause can-

cer in laboratory animals.

2-methylpropan-1-ol:

Carcinogenicity - Assess-

ment

: Available data are inadequate to evaluate carcinogenicity.

Reproductive toxicity

Components:

fluroxypyr-meptyl (ISO):

Reproductive toxicity - As-

sessment

In animal studies, did not interfere with reproduction.

Has been toxic to the fetus in laboratory animals at doses

according to Regulation (EC) No. 1907/2006, Annex II and its amendments.



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toxic to the mother., Did not cause birth defects in laboratory

animals.

Triclopyr-2-butoxyethyl ester:

Reproductive toxicity - As-

sessment

For similar active ingredient(s)., Triclopyr., In laboratory animal studies, effects on reproduction have been seen only at doses that produced significant toxicity to the parent animals. Has been toxic to the fetus in laboratory animals at doses toxic to the mother., Did not cause birth defects in laboratory

animals.

Benzenesulfonic acid, C10-13-alkyl derivs., calcium salt:

Reproductive toxicity - As-

sessment

In animal studies, did not interfere with reproduction.

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

tory animals.

2-methylpropan-1-ol:

Reproductive toxicity - As-

sessment

In animal studies, did not interfere with reproduction.

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

doses which caused toxic effects in the mother.

STOT - single exposure

Components:

Triclopyr-2-butoxyethyl ester:

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

an STOT-SE toxicant.

2-methylpropan-1-ol:

Exposure routes : Inhalation
Target Organs : Nervous system

Assessment : May cause drowsiness or dizziness.

Exposure routes : Inhalation

Target Organs : Respiratory Tract

Assessment : May cause respiratory irritation.

STOT - repeated exposure

Components:

Triclopyr-2-butoxyethyl ester:

Target Organs : Kidney

Assessment : May cause damage to organs through prolonged or repeated

exposure.

according to Regulation (EC) No. 1907/2006, Annex II and its amendments.



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Repeated dose toxicity

Components:

fluroxypyr-meptyl (ISO):

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

pated to cause significant adverse effects.

Benzenesulfonic acid, C10-13-alkyl derivs., calcium salt:

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

pated to cause significant adverse effects.

2-methylpropan-1-ol:

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

gans: Liver.

Central nervous system.

Observations in animals include: Anesthetic or narcotic effects.

Aspiration toxicity

Product:

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

Components:

fluroxypyr-meptyl (ISO):

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

Triclopyr-2-butoxyethyl ester:

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

Benzenesulfonic acid, C10-13-alkyl derivs., calcium salt:

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

2-methylpropan-1-ol:

Aspiration into the lungs may occur during ingestion or vomiting, causing lung damage or even death due to chemical pneumonia.

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components consid-

ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation

according to Regulation (EC) No. 1907/2006, Annex II and its amendments.



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(EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

SECTION 12: Ecological information

12.1 Toxicity

Product:

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

(LC50/EC50/IC50 below 1 mg/L in the most sensitive spe-

cies).

LC50 (Oncorhynchus mykiss (rainbow trout)): 4.48 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)): 32 mg/l

Exposure time: 48 h Test Type: semi-static test

Method: OECD Test Guideline 202 or Equivalent

Toxicity to algae/aquatic

plants

ErC50 (diatom Navicula sp.): 0.854 mg/l

End point: Growth rate inhibition

Exposure time: 72 h Test Type: static test

Method: OECD Test Guideline 201 or Equivalent

NOEC (Myriophyllum spicatum): 0.0977 mg/l

End point: Growth inhibition

Exposure time: 14 d

Test Type: Growth inhibition

Toxicity to soil dwelling or-

ganisms

LC50: > 2,000 mg/kg

Exposure time: 14 d

Species: Eisenia fetida (earthworms)

GLP:yes

Toxicity to terrestrial organ-

isms

oral LD50: > 217.4 micrograms/bee

Exposure time: 48 h

Species: Apis mellifera (bees)

contact LD50: > 200 micrograms/bee

Exposure time: 48 h

Species: Apis mellifera (bees)

Components:

fluroxypyr-meptyl (ISO):

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

(LC50/EC50/IC50 below 1 mg/L in the most sensitive spe-

according to Regulation (EC) No. 1907/2006, Annex II and its amendments.



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cies).

LC50 (Oncorhynchus mykiss (rainbow trout)): > 0.225 mg/l

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

Method: OECD Test Guideline 203 or Equivalent

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 0.183 mg/l

Exposure time: 48 h Test Type: semi-static test

Method: OECD Test Guideline 202 or Equivalent

Toxicity to algae/aquatic

plants

ErC50 (diatom Navicula sp.): 0.24 mg/l

Exposure time: 72 h Test Type: static test

Method: OECD Test Guideline 201 or Equivalent

EbC50 (alga Scenedesmus sp.): > 0.47 mg/l

Exposure time: 72 h

ErC50 (Selenastrum capricornutum (green algae)): > 1.410

mg/l

Exposure time: 96 h

ErC50 (Myriophyllum spicatum): 0.075 mg/l

Exposure time: 14 d

NOEC (Myriophyllum spicatum): 0.031 mg/l

Exposure time: 14 d

Toxicity to fish (Chronic tox-

icity)

NOEC: 0.32 mg/l

Species: Rainbow trout (Oncorhynchus mykiss)

Toxicity to soil dwelling or-

ganisms

LC50: > 1,000 mg/kg

Species: Eisenia fetida (earthworms)

Toxicity to terrestrial organ-

isms

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: > 2000 mg/kg bodyweight.

Exposure time: 5 d

Species: Colinus virginianus (Bobwhite quail)

dietary LC50: > 5000 mg/kg diet.

Species: Colinus virginianus (Bobwhite quail)

oral LD50: > 100 micrograms/bee

Exposure time: 48 h

Species: Apis mellifera (bees)

contact LD50: > 100 micrograms/bee

according to Regulation (EC) No. 1907/2006, Annex II and its amendments.



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Exposure time: 48 h

Species: Apis mellifera (bees)

Triclopyr-2-butoxyethyl ester:

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 0.36 mg/l

Exposure time: 96 h

Test Type: flow-through test

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 2.9 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

ErC50 (Pseudokirchneriella subcapitata (green algae)): > 3.00

mg/l

End point: Growth rate inhibition

Exposure time: 96 h

Method: OECD Test Guideline 201

ErC50 (Myriophyllum spicatum): 0.0473 mg/l

Exposure time: 14 d

NOEC (Myriophyllum spicatum): 0.00722 mg/l

Exposure time: 14 d

M-Factor (Acute aquatic tox-

icity)

10

Toxicity to fish (Chronic tox-

icity)

NOEC: 0.0263 mg/l

Species: Rainbow trout (Oncorhynchus mykiss)

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

NOEC: 1.6 mg/l

End point: number of offspring

Exposure time: 21 d

Species: Daphnia magna (Water flea)

LOEC: 5.1 mg/l

End point: number of offspring

Exposure time: 21 d

Species: Daphnia magna (Water flea)

MATC (Maximum Acceptable Toxicant Level): 2.9 mg/l

End point: number of offspring

Exposure time: 21 d

Species: Daphnia magna (Water flea)

M-Factor (Chronic aquatic

toxicity)

10

Toxicity to soil dwelling or-

ganisms

LC50: > 521 mg/kg Exposure time: 14 d

Species: Eisenia fetida (earthworms)

Toxicity to terrestrial organ: oral LD50: 735 mg/kg bodyweight.

according to Regulation (EC) No. 1907/2006, Annex II and its amendments.



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isms Exposure time: 21 d

Species: Colinus virginianus (Bobwhite quail)

dietary LC50: 1890 mg/kg diet.

Exposure time: 8 d

Species: Colinus virginianus (Bobwhite quail)

oral LD50: > 110 µg/bee Exposure time: 48 h End point: mortality

Species: Apis mellifera (bees)

contact LD50: > 100 μg/bee Exposure time: 48 h

End point: mortality

Species: Apis mellifera (bees)

Benzenesulfonic acid, C10-13-alkyl derivs., calcium salt:

Toxicity to fish : Remarks: Material is moderately toxic to aquatic organisms on

an acute basis (LC50/EC50 between 1 and 10 mg/L in the

most sensitive species tested).

Remarks: Material is toxic to aquatic organisms

(LC50/EC50/IC50 between 1 and 10 mg/L in the most sensi-

tive species).

LC50 (Fish): > 1 - 10 mg/l Exposure time: 96 h Test Type: Static

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 2.9 mg/l

Exposure time: 48 h Test Type: Static

Toxicity to algae/aquatic

plants

EC50 (Algae): 29 mg/l

Exposure time: 96 h Test Type: Static

Toxicity to microorganisms : EC50 (Bacteria): 550 mg/l

Exposure time: 3 h

Toxicity to fish (Chronic tox-

icity)

0.23 mg/l

Exposure time: 72 d Species: Fish

Test Type: flow-through

Toxicity to daphnia and other :

aquatic invertebrates (Chron-

ic toxicity)

1.18 mg/l

Exposure time: 21 d

Species: Daphnia magna (Water flea)

Test Type: flow-through test

according to Regulation (EC) No. 1907/2006, Annex II and its amendments.



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Ecotoxicology Assessment

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

2-methylpropan-1-ol:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 1,430 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 pulex (Water flea)): 1,100 mg/l

Exposure time: 48 h Test Type: static test

Toxicity to algae/aquatic

plants

ErC50 (Pseudokirchneriella subcapitata (green algae)): 1,799

mq/

End point: Growth rate inhibition

Exposure time: 72 h Test Type: static test

Toxicity to microorganisms : IC50 (activated sludge): > 1,000 mg/l

End point: Growth inhibition Exposure time: 16 h

Test Type: static test

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

NOEC: 20 mg/l

End point: number of offspring

Exposure time: 21 d

Species: Daphnia magna (Water flea)

MATC (Maximum Acceptable Toxicant Level): 28 mg/l

End point: number of offspring

Exposure time: 21 d

Species: Daphnia magna (Water flea)

12.2 Persistence and degradability

Components:

fluroxypyr-meptyl (ISO):

Biodegradability : Result: Not biodegradable

Remarks: Material is not readily biodegradable according to

OECD/EEC guidelines.

Biodegradation: 32 % Exposure time: 28 d

Method: OECD Test Guideline 301D or Equivalent

Remarks: 10-day Window: Fail

ThOD : 2.2 kg/kg

Stability in water : Test Type: Hydrolysis

Degradation half life: 454 d

according to Regulation (EC) No. 1907/2006, Annex II and its amendments.



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Triclopyr-2-butoxyethyl ester:

Biodegradability : Result: Not biodegradable

Biodegradation: 18 % Exposure time: 28 d

Method: OECD Test Guideline 301B or Equivalent

Remarks: 10-day Window: Fail

Biochemical Oxygen De-

mand (BOD)

: 0.004 kg/kg

ThOD : 1.21 kg/kg

Stability in water : Test Type: Hydrolysis

Degradation half life (half-life): 8.7 d (25 °C)

pH: 7

Photodegradation : Rate constant: 2.3E-11 cm3/s

Method: Estimated.

Benzenesulfonic acid, C10-13-alkyl derivs., calcium salt:

Biodegradability : Remarks: Material is readily biodegradable. Passes OECD

test(s) for ready biodegradability.

Result: Readily biodegradable. Biodegradation: 100 %

Exposure time: 28 d

Method: OECD Test Guideline 301B or Equivalent

Remarks: 10-day Window: Pass

2-methylpropan-1-ol:

Biodegradability : Result: Readily biodegradable.

Biodegradation: 70 - 80 %

Exposure time: 28 d

Method: OECD Test Guideline 301D or Equivalent

Remarks: 10-day Window: Pass

Inoculum: activated sludge Biodegradation: 90 % Exposure time: 14 d

Method: OECD Test Guideline 301C or Equivalent

Remarks: 10-day Window: Not applicable

12.3 Bioaccumulative potential

Components:

fluroxypyr-meptyl (ISO):

Bioaccumulation : Species: Oncorhynchus mykiss (rainbow trout)

Bioconcentration factor (BCF): 26

Method: Measured

according to Regulation (EC) No. 1907/2006, Annex II and its amendments.



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Partition coefficient: n-

octanol/water

log Pow: 5.04

Method: Measured

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

Pow < 3).

Triclopyr-2-butoxyethyl ester:

Bioaccumulation : Species: Fish

Bioconcentration factor (BCF): 110

Partition coefficient: n-

octanol/water

log Pow: 4.62 pH: 7

Remarks: Bioconcentration potential is moderate (BCF be-

tween 100 and 3000 or Log Pow between 3 and 5).

Benzenesulfonic acid, C10-13-alkyl derivs., calcium salt:

Bioaccumulation : Bioconcentration factor (BCF): 2 - 1,000

Partition coefficient: n-

octanol/water

log Pow: 2.89

Remarks: Bioconcentration potential is moderate (BCF be-

tween 100 and 3000 or Log Pow between 3 and 5).

2-methylpropan-1-ol:

Bioaccumulation : Bioconcentration factor (BCF): 2

Method: Estimated.

Partition coefficient: n-

octanol/water

log Pow: 0.76

Method: Measured

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

Pow < 3).

12.4 Mobility in soil

Components:

fluroxypyr-meptyl (ISO):

Distribution among environ-

mental compartments

Koc: 6200 - 43000

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

5000).

Triclopyr-2-butoxyethyl ester:

Distribution among environ-

mental compartments

Remarks: Calculation of meaningful sorption data was not

possible due to very rapid degradation in the soil.

For the degradation product:

Triclopyr.

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

according to Regulation (EC) No. 1907/2006, Annex II and its amendments.



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50).

Stability in soil : Test Type: aerobic degradation

Dissipation time: 144 - 1,248 h

Benzenesulfonic acid, C10-13-alkyl derivs., calcium salt:

Distribution among environ-

mental compartments

: Remarks: No relevant data found.

2-methylpropan-1-ol:

Distribution among environ-

Koc: 2

mental compartments

Method: Estimated.

Remarks: Potential for mobility in soil is very high (Koc be-

tween 0 and 50).

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:

fluroxypyr-meptyl (ISO):

Assessment : This substance is not considered to be persistent, bioaccumu-

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

very persistent and very bioaccumulating (vPvB).

Triclopyr-2-butoxyethyl ester:

Assessment : This substance is not considered to be persistent, bioaccumu-

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

very persistent and very bioaccumulating (vPvB).

Benzenesulfonic acid, C10-13-alkyl derivs., calcium salt:

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

cumulation and toxicity (PBT).

2-methylpropan-1-ol:

Assessment : This substance is not considered to be persistent, bioaccumu-

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

very persistent and very bioaccumulating (vPvB).

12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components consid-

ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation

according to Regulation (EC) No. 1907/2006, Annex II and its amendments.



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(EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

12.7 Other adverse effects

Components:

fluroxypyr-meptyl (ISO):

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

of substances that deplete the ozone layer.

Triclopyr-2-butoxyethyl ester:

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

of substances that deplete the ozone layer.

Benzenesulfonic acid, C10-13-alkyl derivs., calcium salt:

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

of substances that deplete the ozone layer.

2-methylpropan-1-ol:

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

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

14.1 UN number or ID number

ADR : UN 3082 **RID** : UN 3082

according to Regulation (EC) No. 1907/2006, Annex II and its amendments.



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IMDG : UN 3082 IATA : UN 3082

14.2 UN proper shipping name

ADR : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(Triclopyr, Fluroxypyr)

RID : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(Triclopyr, Fluroxypyr)

IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(Triclopyr, Fluroxypyr)

IATA : Environmentally hazardous substance, liquid, n.o.s.

(Triclopyr, Fluroxypyr)

14.3 Transport hazard class(es)

Class Subsidiary risks

 ADR
 : 9

 RID
 : 9

 IMDG
 : 9

 IATA
 : 9

14.4 Packing group

ADR

Packing group : III
Classification Code : M6
Hazard Identification Number : 90
Labels : 9
Tunnel restriction code : (-)

RID

Packing group : III
Classification Code : M6
Hazard Identification Number : 90
Labels : 9

IMDG

Packing group : III Labels : 9

EmS Code : F-A, S-F

Remarks : Stowage category A

964

IATA (Cargo)

Packing instruction (cargo

aircraft)

Packing instruction (LQ) : Y964
Packing group : III

according to Regulation (EC) No. 1907/2006, Annex II and its amendments.



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Labels : Miscellaneous

IATA (Passenger)

Packing instruction (passen- : 964

ger aircraft)

Packing instruction (LQ) : Y964
Packing group : III

Labels : Miscellaneous

14.5 Environmental hazards

ADR

Environmentally hazardous : yes

RID

Environmentally hazardous : yes

IMDG

Marine pollutant : yes(Triclopyr, Fluroxypyr)

14.6 Special precautions for user

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.

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.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

REACH - Candidate List of Substances of Very High : Not applicable

Concern for Authorisation (Article 59).

Regulation (EC) No 1005/2009 on substances that de- : Not applicable

plete the ozone layer

Regulation (EU) 2019/1021 on persistent organic pollu- : Not applicable

tants (recast)

Regulation (EC) No 649/2012 of the European Parlia: Not applicable ment and the Council concerning the export and import

of dangerous chemicals

REACH - List of substances subject to authorisation : Not applicable

(Annex XIV)

Seveso III: Directive 2012/18/EU of the Euro- E1 ENVIRONMENTAL HAZARDS

pean Parliament and of the Council on the control of major-accident hazards involving

according to Regulation (EC) No. 1907/2006, Annex II and its amendments.



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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

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 H-Statements

H226 : Flammable liquid and vapour.

H302 : Harmful if swallowed. H315 : Causes skin irritation.

H317 : May cause an allergic skin reaction.
H318 : Causes serious eye damage.
H335 : May cause respiratory irritation.
H336 : May cause drowsiness or dizziness.

H373 : May cause damage to organs through prolonged or repeated

exposure.

H400 : Very toxic to aquatic life.

H410 : Very toxic to aquatic life with long lasting effects.H412 : Harmful 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 Dam. : Serious eye damage Flam. Liq. : Flammable liquids Skin Irrit. : Skin irritation Skin Sens. : Skin sensitisation

STOT RE : Specific target organ toxicity - repeated exposure STOT SE : Specific target organ toxicity - single exposure

Corteva OEL : Corteva Occupational Exposure Limit

IE OEL : List of Chemical Agents and Carcinogens with Occupational

Exposure Limit Values - Code of Practice, Schedule 1 and 2

Corteva OEL / STEL : Short term exposure limit Corteva OEL / TWA : Time weighted average

IE OEL / OELV - 8 hrs (TWA) : Occupational exposure limit value (8-hour reference period)
IE OEL / OELV - 15 min : Occupational exposure limit value (15-minute reference peri-

(STEL) od)

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;

according to Regulation (EC) No. 1907/2006, Annex II and its amendments.



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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 - United Nations.

EC-Number - European Community number REACH - Regulation (EC) No 1907/2006 of the European Parliament and of Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals.

Further information

Classification of the mixture: Classification procedure:

Skin Sens. 1B H317 Based on product data or assessment STOT RE 2 H373 Calculation method

Aquatic Acute 1 H400 Based on product data or assessment Aquatic Chronic 1 H410 Based on product data or assessment

Product code: GF-2044

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.

IE / 6N