according to Regulation (EC) No. 1907/2006



## **Grazon Spot**

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

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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 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 : Grazon Spot

Unique Identifier Formula : DTJ4-F0X9-U00N-UHDY

(UIF)

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

Use of the Sub- : Plant Protection Product

stance/Mixture

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

#### **COMPANY IDENTIFICATION**

Manufacturer/importer

Corteva Agriscience UK Limited CPC2 CAPITAL PARK

FULBOURN CAMBRIDGE - England - CB21 5XE

**UNITED KINGDOM** 

**Customer Information** : +44 8006 89 8899

Number

E-mail address : SDS@corteva.com

#### 1.4 Emergency telephone number

24-Hour Emergency Contact : +44 161 88 41235 Local Emergency Contact : +44 161 88 41235

#### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

#### Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 3 H226: Flammable liquid and vapour.

Aspiration hazard, Category 1 H304: May be fatal if swallowed and enters air-

ways.

Skin irritation, Category 2 H315: Causes skin irritation.

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

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Eye irritation, Category 2

Specific target organ toxicity - single exposure, Category 3, Respiratory system Specific target organ toxicity - single exposure, Category 3, Central nervous

system

Specific target organ toxicity - repeated exposure, Category 2, Kidney

Short-term (acute) aquatic hazard, Cate-

Long-term (chronic) aquatic hazard, Cat-

egory 1

H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

H336: May cause drowsiness or dizziness.

H373: May cause damage to organs through pro-

longed or repeated exposure.

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 Danger

Hazard statements H226 Flammable liquid and vapour.

> H315 Causes skin irritation.

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

H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness.

H304 May be fatal if swallowed and enters airways. H373 May cause damage to organs through prolonged or

repeated exposure.

H410 Very toxic to aquatic life with long lasting effects.

Supplemental Hazard

Statements

EUH401

To avoid risks to human health and the

environment, comply with the instructions for use.

Prevention: Precautionary statements

> P210 Keep away from heat/ sparks/ open flames/ hot surfac-

es. No smoking.

Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. P280 Wear protective gloves/ protective clothing/ eye protec-

tion/ face protection.

Response:

P301 + P310 IF SWALLOWED: Immediately call a POISON

CENTER/ doctor.

P302 + P352 IF ON SKIN: Wash with plenty of water.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing.

P391 Collect spillage.

Disposal:

P501 Dispose of contents/container to a licensed hazardous-

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waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.

#### 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.

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)
Hydrocarbons, C9, aromatics	Not Assigned 01-2119455851-35	Flam. Liq. 3; H226 STOT SE 3; H335 (Respiratory system) STOT SE 3; H336 (Central nervous system) Asp. Tox. 1; H304 Aquatic Chronic 2; H411	>= 40 - < 50
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	>= 30 - < 40
Reaction mass of N,N-	Not Assigned	Skin Irrit. 2; H315	>= 3 - < 10

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dimethyldecan-1-amide and N,N-dimethyloctanamide	01-2119974115-37	Eye Dam. 1; H318 STOT SE 3; H335 (Respiratory system)	
clopyralid (ISO)	1702-17-6 216-935-4 607-231-00-1	Eye Dam. 1; H318 Aquatic Chronic 1; H410  M-Factor (Chronic	>= 3 - < 10
		aquatic toxicity): 10	
Benzenesulfonic acid, mono-C11- 13-branched alkyl derivs., calcium salts	68953-96-8 273-234-6 01-2119964467-24	Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 2; H411	>= 2.5 - < 3
Hydrocarbons, C10, aromatics, <1% naphthalene	1189173-42-9 01-2119463583-34- 0008, 01- 2119463583-34-0009, 01-2119463583-34- 0010	STOT SE 3; H336 (Central nervous system) Asp. Tox. 1; H304 Aquatic Chronic 2; H411	>= 1 - < 2.5

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

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.

If breathing is difficult, oxygen should be administered by qual-

ified personnel.

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.

Suitable emergency safety shower facility should be available

in work area.

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

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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.

If swallowed : Immediately call a poison control center or doctor. Do not

induce vomiting unless told to do so by a poison control center or doctor. Do not give any liquid to the person. Do not 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 : Maintain adequate ventilation and oxygenation of the patient.

If burn is present, treat as any thermal burn, after decontami-

nation.

The decision of whether to induce vomiting or not should be

made by a physician.

If lavage is performed, suggest endotracheal and/or esophageal control. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach.

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.

Skin contact may aggravate preexisting dermatitis.

#### **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

Specific hazards during fire-

fighting

: Exposure to combustion products may be a hazard to health.

#### 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-

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

Further information : Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment.

#### **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.

## 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 over-

pressurization of the container.

Keep in suitable, closed containers for disposal. Wipe up with absorbent material (e.g. cloth, fleece). Neutralize with chalk, alkali solution or ammonia.

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

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

Handle in accordance with good industrial hygiene and safety

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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.

#### 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 : Do not store near acids.

Strong oxidizing agents

Packaging material : Unsuitable material: None known.

7.3 Specific end use(s)

## **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 engineering controls to maintain airborne level below exposure limit requirements or guidelines.

If there are no applicable exposure limit requirements or guidelines, use only with adequate ventilation.

Local exhaust ventilation may be necessary for some operations.

#### Personal protective equipment

Eye 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: Polyethylene. Ethyl vinyl alcohol laminate ("EVAL"). Styrene/butadiene rubber. Viton. Examples of acceptable glove barrier materials include: Butyl rubber. Chlorinated polyethylene. Natural rubber ("latex"). 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 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

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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.

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, use an approved respirator.

Selection of air-purifying or positive-pressure supplied-air will depend on the specific operation and the potential airborne

concentration of the material.

For emergency conditions, use an approved positive-

pressure self-contained breathing apparatus.

In confined or poorly ventilated areas, use an approved selfcontained breathing apparatus or positive pressure air line

with auxiliary self-contained air supply.

#### **SECTION 9: Physical and chemical properties**

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

Physical state : Liquid.
Colour : Yellow
Odour : Aromatic

Odour Threshold : No test data available

Melting point/range : Not applicable

Freezing point No test data available

Boiling point/boiling range : No test data available

Flammability : Not applicable to liquids

Upper explosion limit / Upper

flammability limit

: No test data available

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Lower explosion limit / Lower

flammability limit

No test data available

Flash point : 55.1 °C

Method: Pensky-Martens Closed Cup ASTM D 93, closed cup

Auto-ignition temperature : No test data available

pH : 2.04 (20 °C)

Method: pH Electrode

(neat)

Solubility(ies)

Water solubility : emulsifiable

Vapour pressure : No test data available

Relative vapour density : No test data available

9.2 Other information

Explosives : No

Oxidizing properties : No data available

Evaporation rate : No test 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. May form explosive dust-air mixture.

10.4 Conditions to avoid

Conditions to avoid : None known.

10.5 Incompatible materials

Materials to avoid : None.

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#### 10.6 Hazardous decomposition products

### **SECTION 11: Toxicological information**

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

### **Acute toxicity**

Product:

Acute oral toxicity : Remarks: Low toxicity if swallowed.

Small amounts swallowed incidentally as a result of normal handling operations are not likely to cause injury; however,

swallowing larger amounts may cause injury.

Acute inhalation toxicity : Remarks: Vapor concentrations are attainable which could be

hazardous on single exposure.

May cause respiratory irritation and central nervous system

depression.

Symptoms may include headache, dizziness and drowsiness,

progressing to incoordination and unconsciousness.

Acute dermal toxicity : Remarks: Prolonged skin contact is unlikely to result in ab-

sorption of harmful amounts.

## **Components:**

Hydrocarbons, C9, aromatics:

Acute oral toxicity : LD50 (Rat): 3,500 mg/kg

Acute inhalation toxicity : Remarks: Vapor concentrations are attainable which could be

hazardous on single exposure.

May cause respiratory irritation and central nervous system

depression.

Symptoms may include headache, dizziness and drowsiness,

progressing to incoordination and unconsciousness.

LC50 (Rat): > 10.2 mg/l Exposure time: 4 h Test atmosphere: vapour

Assessment: The substance or mixture has no acute inhala-

tion toxicity

Acute dermal toxicity : LD50 (Rabbit): > 3,160 mg/kg

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

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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

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

Reaction mass of N,N-dimethyldecan-1-amide and N,N-dimethyloctanamide:

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

Acute inhalation toxicity : LC50 (Rat): > 3.551 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Assessment: The substance or mixture has no acute inhala-

tion toxicity

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

clopyralid (ISO):

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

Acute inhalation toxicity : LC50 (Rat): > 1 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Symptoms: No deaths occurred at this concentration., The LC50 value is greater than the Maximum Attainable Concen-

tration.

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, mono-C11-13-branched alkyl derivs., calcium salts:

Acute oral toxicity : Remarks: Low toxicity if swallowed.

Small amounts swallowed incidentally as a result of normal handling operations are not likely to cause injury; however,

swallowing larger amounts may cause injury.

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

Method: OECD 401 or equivalent

Symptoms: No deaths occurred at this concentration.

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

icity

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Remarks: For similar material(s):

Acute dermal toxicity : Remarks: Prolonged or widespread skin contact may result in

absorption of potentially harmful amounts.

LD50 (Rat, male and female): > 1,000 - < 1,600 mg/kg

Method: OECD 402 or equivalent Remarks: For similar material(s):

Hydrocarbons, C10, aromatics, <1% naphthalene:

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

Remarks: For similar material(s):

Acute inhalation toxicity : LC50 (Rat): > 4.688 mg/l

Exposure time: 4 h
Test atmosphere: vapour

Assessment: The substance or mixture has no acute inhala-

tion toxicity

Remarks: For similar material(s): Maximum attainable concentration.

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

Assessment: The substance or mixture has no acute dermal

toxicity

Remarks: For similar material(s):

Skin corrosion/irritation

**Product:** 

Result : Mild skin irritation

Remarks : Brief contact may cause moderate skin irritation with local

redness

May cause drying and flaking of the skin.

**Components:** 

Hydrocarbons, C9, aromatics:

Result : No skin irritation

Triclopyr-2-butoxyethyl ester:

Species : Rabbit

Result : No skin irritation

Reaction mass of N,N-dimethyldecan-1-amide and N,N-dimethyloctanamide:

Species : Rabbit
Result : Skin irritation

Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:

Result : Skin irritation

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#### Serious eye damage/eye irritation

**Product:** 

Result : Eye irritation

Remarks : May cause moderate eye irritation which may be slow to heal.

May cause slight corneal injury.

Components:

Hydrocarbons, C9, aromatics:

Result : No eye irritation

Triclopyr-2-butoxyethyl ester:

Species : Rabbit

Result : No eye irritation

Reaction mass of N,N-dimethyldecan-1-amide and N,N-dimethyloctanamide:

Species : Rabbit Result : Corrosive

clopyralid (ISO):

Species : Rabbit Result : Corrosive

Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:

Result : Corrosive

Respiratory or skin sensitisation

**Product:** 

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

Remarks : Has demonstrated the potential for contact allergy in mice.

Remarks : For respiratory sensitization:

No relevant data found.

**Components:** 

Hydrocarbons, C9, aromatics:

Assessment : Does not cause skin sensitisation.

 $Remarks \hspace{1.5cm} : \hspace{.2cm} For \hspace{.2cm} similar \hspace{.2cm} material(s):$ 

Did not cause allergic skin reactions when tested in guinea

pigs.

Remarks : For respiratory sensitization:

No relevant data found.

Triclopyr-2-butoxyethyl ester:

Species : Guinea pig

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

Reaction mass of N,N-dimethyldecan-1-amide and N,N-dimethyloctanamide:

**Species** Guinea pig

Assessment Does not cause skin sensitisation.

Remarks For similar material(s):

clopyralid (ISO):

**Species** Guinea pig

Assessment Does not cause skin sensitisation.

Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:

Remarks : For skin sensitization:

For similar material(s):

Did not cause allergic skin reactions when tested in guinea

pigs.

Remarks For respiratory sensitization:

No relevant data found.

Hydrocarbons, C10, aromatics, <1% naphthalene:

Remarks : For similar material(s):

Did not cause allergic skin reactions when tested in guinea

pigs.

Remarks For respiratory sensitization:

No relevant data found.

Germ cell mutagenicity

Components:

Hydrocarbons, C9, aromatics:

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.

Reaction mass of N,N-dimethyldecan-1-amide and N,N-dimethyloctanamide:

Germ cell mutagenicity- As-

sessment

: In vitro genetic toxicity studies were negative.

clopyralid (ISO):

Germ cell mutagenicity- As-

sessment

In vitro genetic toxicity studies were negative., Animal genetic

toxicity studies were negative.

Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:

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Germ cell mutagenicity- As-

sessment

For similar material(s):, In vitro genetic toxicity studies were negative., Animal genetic toxicity studies were negative.

#### Hydrocarbons, C10, aromatics, <1% naphthalene:

Germ cell mutagenicity- As-

sessment

: For similar material(s):, In vitro genetic toxicity studies were negative., Animal genetic toxicity studies were negative.

#### Carcinogenicity

#### **Components:**

#### Hydrocarbons, C9, aromatics:

Carcinogenicity - Assess-

ment

Xylene was not found to be carcinogenic in a National Toxi-

cology Program bioassay in rats and mice.

## Triclopyr-2-butoxyethyl ester:

Carcinogenicity - Assess-

ment

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

cer in laboratory animals.

#### clopyralid (ISO):

Carcinogenicity - Assess-

ment

: Did not cause cancer in laboratory animals.

### Reproductive toxicity

### **Components:**

#### Hydrocarbons, C9, aromatics:

Reproductive toxicity - As-

sessment

In laboratory animal studies, effects on reproduction have been seen only at doses that produced significant toxicity to the parent animals.

Has caused birth defects in laboratory animals only at doses producing severe toxicity in the mother., Exaggerated doses of xylene given orally to pregnant mice resulted in an increase in cleft palate, a common developmental abnormality in mice. In animal inhalation studies, xylene caused toxicity to the fetus but did not cause birth defects.

## 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.

## Reaction mass of N,N-dimethyldecan-1-amide and N,N-dimethyloctanamide:

Reproductive toxicity - As-

sessment

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

other fetal effects in laboratory animals.

according to Regulation (EC) No. 1907/2006



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clopyralid (ISO):

Reproductive toxicity - As-

sessment

In animal studies, did not interfere with reproduction.

Clopyralid caused birth defects in test animals, but only at

greatly exaggerated doses that were severely toxic to the mothers. No birth defects were observed in animals given clopyralid at doses several times greater than those expected

during normal exposure.

Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:

Reproductive toxicity - As-

sessment

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

reproduction.

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

other fetal effects in laboratory animals.

Hydrocarbons, C10, aromatics, <1% naphthalene:

Reproductive toxicity - As-

sessment

: In animal studies, did not interfere with reproduction.

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

other fetal effects in laboratory animals.

STOT - single exposure

**Product:** 

Exposure routes : Inhalation

Target Organs : Respiratory Tract

Assessment : May cause respiratory irritation.

Exposure routes : Inhalation

Assessment : May cause drowsiness or dizziness.

**Components:** 

Hydrocarbons, C9, aromatics:

Assessment : May cause respiratory irritation., May cause drowsiness or

dizziness.

Triclopyr-2-butoxyethyl ester:

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

an STOT-SE toxicant.

Reaction mass of N,N-dimethyldecan-1-amide and N,N-dimethyloctanamide:

Exposure routes : Inhalation

Assessment : May cause respiratory irritation.

clopyralid (ISO):

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

an STOT-SE toxicant.

according to Regulation (EC) No. 1907/2006



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#### Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:

Assessment : Available data are inadequate to determine single exposure

specific target organ toxicity.

#### Hydrocarbons, C10, aromatics, <1% naphthalene:

Exposure routes : Inhalation

Assessment : May cause drowsiness or dizziness.

#### STOT - repeated exposure

#### **Components:**

### Triclopyr-2-butoxyethyl ester:

Target Organs : Kidney

Assessment : May cause damage to organs through prolonged or repeated

exposure.

## Repeated dose toxicity

#### **Components:**

#### Hydrocarbons, C9, aromatics:

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

gans: Blood. Kidney. Liver.

Xylene is reported to have caused hearing loss in laboratory animals upon exposure to high concentrations; such effects

have not been reported in humans.

For the minor component(s):

Cumene. Eye.

## Triclopyr-2-butoxyethyl ester:

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

gans: Kidney. Liver.

### Reaction mass of N,N-dimethyldecan-1-amide and N,N-dimethyloctanamide:

Remarks : For similar material(s):

Based on available data, repeated exposures are not antici-

pated to cause significant adverse effects.

clopyralid (ISO):

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

pated to cause additional significant adverse effects.

## Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:

according to Regulation (EC) No. 1907/2006



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Remarks : For similar material(s):

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

gans: Kidney.

#### Hydrocarbons, C10, aromatics, <1% naphthalene:

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

pated to cause additional significant adverse effects.

## **Aspiration toxicity**

#### **Product:**

May be fatal if swallowed and enters airways.

### **Components:**

#### Hydrocarbons, C9, aromatics:

May be fatal if swallowed and enters airways.

### Triclopyr-2-butoxyethyl ester:

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

### Reaction mass of N,N-dimethyldecan-1-amide and N,N-dimethyloctanamide:

May be harmful if swallowed and enters airways.

### clopyralid (ISO):

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

#### Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:

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

#### Hydrocarbons, C10, aromatics, <1% naphthalene:

May be fatal if swallowed and enters airways.

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

levels of 0.1% or higher.

according to Regulation (EC) No. 1907/2006



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## **SECTION 12: Ecological information**

#### 12.1 Toxicity

**Product:** 

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 21.6 mg/l

aquatic invertebrates

Exposure time: 48 h

Test Type: static test

Toxicity to algae/aquatic

plants

ErC50 (Pseudokirchneriella subcapitata (green algae)): 16.6

End point: Growth rate inhibition

Exposure time: 72 h Test Type: static test

ErC50 (Myriophyllum spicatum): 0.190 mg/l

Exposure time: 14 d

NOEC (Myriophyllum spicatum): 0.0305 mg/l

Exposure time: 14 d

Toxicity to soil dwelling or-

ganisms

LC50: 224 mg/kg

Exposure time: 14 d

Species: Eisenia fetida (earthworms)

Toxicity to terrestrial organ-

isms

Remarks: Material is slightly toxic to birds on an acute basis

(LD50 between 501 and 2000 mg/kg).

oral LD50: 1156 mg/kg bodyweight.

Exposure time: 14 d

Species: Colinus virginianus (Bobwhite quail)

GLP:yes

oral LD50: > 370 μg/bee Exposure time: 48 h

Species: Apis mellifera (bees)

contact LD50: > 413 µg/bee Exposure time: 48 h

Species: Apis mellifera (bees)

**Ecotoxicology Assessment** 

Acute aquatic toxicity : Very toxic to aquatic life.

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

**Components:** 

Hydrocarbons, C9, aromatics:

Toxicity to fish Remarks: Material is toxic to aquatic organisms

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

tive species).

according to Regulation (EC) No. 1907/2006



## Grazon Spot

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LC50 (Oncorhynchus mykiss (rainbow trout)): 9.22 mg/l

Exposure time: 96 h Test Type: static test

Method: OECD Test Guideline 203 or Equivalent

aquatic invertebrates

Toxicity to daphnia and other : LC50 (saltwater mysid Mysidopsis bahia): 2.0 mg/l

Exposure time: 96 h

Toxicity to algae/aquatic

plants

ErC50 (Pseudokirchneriella subcapitata (green algae)): 2.9

Exposure time: 72 h

Remarks: For similar material(s):

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).

dietary LC50: > 6500 mg/kg diet.

Exposure time: 8 d

Species: Colinus virginianus (Bobwhite quail)

oral LD50: > 2150 mg/kg bodyweight.

Exposure time: 21 d

Species: Colinus virginianus (Bobwhite quail)

**Ecotoxicology Assessment** 

Chronic aquatic toxicity Toxic to aquatic life with long lasting effects.

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

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

according to Regulation (EC) No. 1907/2006



## **Grazon Spot**

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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-

isms

: oral LD50: 735 mg/kg bodyweight.

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)

#### Reaction mass of N,N-dimethyldecan-1-amide and N,N-dimethyloctanamide:

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 (Danio rerio (zebra fish)): 14.8 mg/l

according to Regulation (EC) No. 1907/2006



## Grazon Spot

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Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

LC50 (Daphnia magna (Water flea)): 7.7 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic

plants

: EC50 (Pseudokirchneriella subcapitata (green algae)): 16.06

Exposure time: 72 h

**Ecotoxicology Assessment** 

Acute aquatic toxicity Toxic to aquatic life.

clopyralid (ISO):

Toxicity to fish LC50 (Oncorhynchus mykiss (rainbow trout)): > 99.9 mg/l

> Exposure time: 96 h Test Type: static test

NOEC (Lepomis macrochirus (Bluegill sunfish)): > 102 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 99 mg/l

Exposure time: 48 h Test Type: static test

Toxicity to algae/aquatic

plants

ErC50 (Myriophyllum spicatum): > 3 mg/l

Exposure time: 14 d

NOEC (Myriophyllum spicatum): 0.0089 mg/l

Exposure time: 14 d

ErC50 (Selenastrum capricornutum (green algae)): 30.0 mg/l

End point: Growth rate inhibition

Exposure time: 72 h

Toxicity to microorganisms (Bacteria): > 100 mg/l

Toxicity to fish (Chronic tox-

icity)

NOEC: 10.8 mg/l

End point: Other Exposure time: 34 d

Species: Pimephales promelas (fathead minnow)

Method: OECD Test Guideline 210

Toxicity to daphnia and other :

aquatic invertebrates (Chron-

ic toxicity)

NOEC: 17 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea)

Test Type: static test

Method: OECD Test Guideline 211 or Equivalent

M-Factor (Chronic aquatic

toxicity)

10

Toxicity to soil dwelling or-

ganisms

LC50: > 1,000 mg/kgExposure time: 14 d

End point: survival

according to Regulation (EC) No. 1907/2006



## Grazon Spot

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Species: Eisenia fetida (earthworms)

Toxicity to terrestrial organ-

isms

oral LD50: 1465 mg/kg bodyweight.

Species: Anas platyrhynchos (Mallard duck)

dietary LC50: > 5000 mg/kg diet.

Exposure time: 8 d

Species: Colinus virginianus (Bobwhite quail)

oral LD50: > 100 micrograms/bee

Exposure time: 48 h End point: mortality

Species: Apis mellifera (bees)

contact LD50: > 98.1 micrograms/bee

Species: Apis mellifera (bees)

**Ecotoxicology Assessment** 

Acute aquatic toxicity : Toxic to aquatic life.

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

Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:

Remarks: Material is harmful to aquatic organisms Toxicity to fish

(LC50/EC50/IC50 between 10 and 100 mg/L in the most sen-

sitive species).

LC50 (zebra fish (Brachydanio rerio)): 31.6 mg/l

Exposure time: 96 h

Remarks: For similar material(s):

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 62 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic

plants

ErC50 (Selenastrum capricornutum (green algae)): 29 mg/l

End point: Growth rate inhibition

Exposure time: 96 h

Remarks: For similar material(s):

Toxicity to microorganisms EC50 (activated sludge): 550 mg/l

End point: Respiration rates.

Exposure time: 3 h

Remarks: For similar material(s):

Toxicity to fish (Chronic tox-

icity)

NOEC: 0.23 mg/l End point: survival

Exposure time: 72 d

Species: Rainbow trout (Salmo gairdneri)

Remarks: For similar material(s):

Toxicity to daphnia and other :

aquatic invertebrates (Chron-

ic toxicity)

NOEC: 1.18 mg/l End point: number of offspring

Exposure time: 21 d

according to Regulation (EC) No. 1907/2006



## **Grazon Spot**

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Species: Daphnia magna (Water flea) Remarks: For similar material(s):

Hydrocarbons, C10, aromatics, <1% naphthalene:

Toxicity to fish : Remarks: For similar material(s):

Material is moderately toxic to aquatic organisms on an acute basis (LC50/EC50 between 1 and 10 mg/L in the most sensi-

tive species tested).

Remarks: For similar material(s):

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

LC50 (Oncorhynchus mykiss (rainbow trout)): 2 - 5 mg/l

Exposure time: 96 h

Remarks: For similar material(s):

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna): 3 - 10 mg/l

Exposure time: 48 h

Remarks: For similar material(s):

Toxicity to algae/aquatic

plants

: EC50 (Pseudokirchneriella subcapitata (green algae)): 11 mg/l

Exposure time: 72 h

Remarks: For similar material(s):

**Ecotoxicology Assessment** 

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

#### 12.2 Persistence and degradability

### **Components:**

## Hydrocarbons, C9, aromatics:

Biodegradability : Remarks: For the major component(s):

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

dability.

For some component(s):

Based on stringent OECD test guidelines, this material cannot be considered as readily biodegradable; however, these results do not necessarily mean that the material is not biode-

gradable under environmental conditions.

Result: Not biodegradable

Triclopyr-2-butoxyethyl ester:

Biodegradability : Result: Not readily biodegradable.

Biodegradation: 18 % Exposure time: 28 d

Method: OECD Test Guideline 301B or Equivalent

Remarks: 10-day Window: Fail

according to Regulation (EC) No. 1907/2006



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Biochemical Oxygen De-

mand (BOD)

ThOD

: 1.21 kg/kg

: 0.004 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.

Reaction mass of N,N-dimethyldecan-1-amide and N,N-dimethyloctanamide:

Biodegradability : Remarks: Material is readily biodegradable. Passes OECD

test(s) for ready biodegradability.

Result: Readily biodegradable. Biodegradation: > 80 % Exposure time: 28 d

Method: OECD Test Guideline 301F or Equivalent

Remarks: 10-day Window: Pass

Chemical Oxygen Demand

(COD)

: 2.890 mg/g

clopyralid (ISO):

Biodegradability : Biodegradation: 5 - 10 %

Exposure time: 28 d

Method: OECD Test Guideline 301B or Equivalent

Remarks: 10-day Window: Fail

ThOD : 0.71 kg/kg

Stability in water : Test Type: Hydrolysis

pH: 4 - 9 Method: Stable

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

Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:

Biodegradability : Result: Not readily biodegradable.

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

biodegradability.

Biodegradation: 2.9 % Exposure time: 28 d

Method: OECD Test Guideline 301E or Equivalent

Remarks: 10-day Window: Fail

Hydrocarbons, C10, aromatics, <1% naphthalene:

Biodegradability : Remarks: Material is inherently biodegradable (reaches >

according to Regulation (EC) No. 1907/2006



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20% biodegradation in OECD test(s) for inherent biodegrada-

bility).

#### 12.3 Bioaccumulative potential

#### **Components:**

Hydrocarbons, C9, aromatics:

Partition coefficient: n- : Remarks: For the major component(s):

octanol/water Bioconcentration potential is moderate (BCF between 100 and

3000 or Log Pow between 3 and 5).

For the minor component(s):

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

Reaction mass of N,N-dimethyldecan-1-amide and N,N-dimethyloctanamide:

Partition coefficient: n-

efficient: n- : log Pow: < 3.44 (20 °C)

octanol/water

Remarks: Bioconcentration potential is moderate (BCF be-

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

clopyralid (ISO):

Bioaccumulation : Species: Fish

Bioconcentration factor (BCF): < 1

Method: Measured

Partition coefficient: n-

octanol/water

log Pow: -2.63

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

Pow < 3).

Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:

Partition coefficient: n-

log Pow: 4.6

octanol/water

Method: OECD Test Guideline 107 or Equivalent

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

Hydrocarbons, C10, aromatics, <1% naphthalene:

Partition coefficient: n-

Remarks: No data available for this product.

octanol/water

For similar material(s):

Bioconcentration potential is high (BCF > 3000 or Log Pow

between 5 and 7).

according to Regulation (EC) No. 1907/2006



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#### 12.4 Mobility in soil

### Components:

Hydrocarbons, C9, aromatics:

Distribution among environ-

mental compartments

Triclopyr-2-butoxyethyl ester:

Distribution among environmental compartments

Remarks: Calculation of meaningful sorption data was not

possible due to very rapid degradation in the soil.

For the degradation product:

Remarks: No relevant data found.

Triclopyr.

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

50).

Stability in soil Test Type: aerobic degradation

Dissipation time: 144 - 1,248 h

Reaction mass of N,N-dimethyldecan-1-amide and N,N-dimethyloctanamide:

Distribution among environ-

mental compartments

Koc: 527.3

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

and 2000).

clopyralid (ISO):

Distribution among environ-

mental compartments

Koc: 4.9

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

tween 0 and 50).

Stability in soil Test Type: aerobic degradation

> Dissipation time: 71 d Method: Estimated.

Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:

Distribution among environ-

: Remarks: No relevant data found.

mental compartments

Hydrocarbons, C10, aromatics, <1% naphthalene: Distribution among environ-

mental compartments

: Remarks: No relevant data found.

#### 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:

Hydrocarbons, C9, aromatics:

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

according to Regulation (EC) No. 1907/2006



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cumulation and toxicity (PBT)..

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)..

Reaction mass of N,N-dimethyldecan-1-amide and N,N-dimethyloctanamide:

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)...

clopyralid (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)..

Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:

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)..

Hydrocarbons, C10, aromatics, <1% naphthalene:

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

levels of 0.1% or higher.

12.7 Other adverse effects

**Components:** 

Hydrocarbons, C9, aromatics:

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.

according to Regulation (EC) No. 1907/2006



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#### Reaction mass of N,N-dimethyldecan-1-amide and N,N-dimethyloctanamide:

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

of substances that deplete the ozone layer.

clopyralid (ISO):

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

of substances that deplete the ozone layer.

#### Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:

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

of substances that deplete the ozone layer.

### Hydrocarbons, C10, aromatics, <1% naphthalene:

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 1993
RID : UN 1993
IMDG : UN 1993
IATA : UN 1993

## 14.2 UN proper shipping name

**ADR** : FLAMMABLE LIQUID, N.O.S.

(Hydrocarbons, C9, aromatics)

RID : FLAMMABLE LIQUID, N.O.S.

according to Regulation (EC) No. 1907/2006



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(Hydrocarbons, C9, aromatics)

**IMDG** FLAMMABLE LIQUID, N.O.S.

(Hydrocarbons, C9, aromatics, Triclopyr-2-butoxyethyl Ester,

Clopyralid)

**IATA** Flammable liquid, n.o.s.

(Hydrocarbons, C9, aromatics)

14.3 Transport hazard class(es)

**ADR** 3 RID 3 **IMDG** 3 **IATA** 3

14.4 Packing group

ADR

Packing group 111 : F1 Classification Code Hazard Identification Number : 30 Labels 3 Tunnel restriction code (D/E)

RID

Packing group Ш Classification Code F1 Hazard Identification Number : 30 Labels 3

**IMDG** 

Packing group Ш Labels 3 EmS Code

F-E, S-E

Remarks Stowage category A

IATA (Cargo)

Packing instruction (cargo 366

aircraft)

Packing instruction (LQ) : Y344 Packing group : III

Flammable Liquids Labels

IATA (Passenger)

Packing instruction (passen-355

ger aircraft)

Packing instruction (LQ) Y344 Packing group Ш

Labels Flammable Liquids

14.5 Environmental hazards

**ADR** 

Environmentally hazardous : no

Environmentally hazardous : no

according to Regulation (EC) No. 1907/2006



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**IMDG** 

Marine pollutant : no

#### 14.6 Special precautions for user

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

#### 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).

REACH - List of substances subject to authorisation : Not applicable

(Annex XIV)

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)

Seveso III: Directive 2012/18/EU of the Euro-P5c FLAMMABLE LIQUIDS pean Parliament and of the Council on the

control of major-accident hazards involving dangerous substances.

E1

34 Petroleum products: (a) gasolines

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and naphthas, (b) kerosenes
(including jet fuels), (c) gas oils
(including diesel fuels, home
heating oils and gas oil blending
streams),(d) heavy fuel oils (e)
alternative fuels serving the same
purposes and with similar properties as regards flammability and
environmental hazards as the
products referred to in points (a)

to (d)

E1 ENVIRONMENTAL HAZARDS

#### 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.

according to Regulation (EC) No. 1907/2006



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#### **SECTION 16: Other information**

#### Information Source and References

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

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

H226 : Flammable liquid and vapour.

H302 : Harmful if swallowed.

H304 : May be fatal if swallowed and enters airways.

H312 : Harmful in contact with skin.
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.
H411
Toxic to aquatic life with long lasting effects.

#### Full text of other abbreviations

Acute Tox. : Acute toxicity

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

Asp. Tox. : Aspiration 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

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 -

according to Regulation (EC) No. 1907/2006



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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

#### **Further information**

Classification of the mixture:		Classification procedure:
Flam. Liq. 3	H226	Based on product data or assessment
Asp. Tox. 1	H304	Based on product data or assessment
2	H315	On basis of test data.
Skin Sens. 1B	H317	Based on product data or assessment
Eye Irrit. 2	H319	Based on product data or assessment
STOT SE 3	H335	Based on product data or assessment
STOT SE 3	H336	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-1652

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

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