

GALAXY™

| Version | Revision Date: | SDS Number: | Date of last issue: - |
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| 1.0 | 11.12.2023 | 800080004508 | Date of first issue: 11.12.2023 |

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 | : GALAXY™ |
|------------------------------------|-----------------------|
| Unique Formula Identifier (UFI) | : WYS3-D04J-E008-J9X8 |

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

| Use of the Sub- | : | End use herbicide product |
|-----------------|---|---------------------------|
| stance/Mixture | | - |

1.3 Details of the supplier of the safety data sheet

COMPANY IDENTIFICATION Manufacturer/importer Corteva Agriscience UK Ltd 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

SGS +32 3 575 55 55 OR

+44 161 88 41235

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Skin irritation, Category 2 H315: Causes skin irritation. ™ ® Trademarks of Corteva Agriscience and its affiliated companies.



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| Serious eye damage, Category 1 Aspiration hazard, Category 1 | | | H318: Causes serious eye damage. H304: May be fatal if swallowed and enters air- ways. | | |
| Short-term (acute) aquatic hazard, Cate- gory 1 | | | H400: Very toxic to aquatic life. | | |
| Long | Long-term (chronic) aquatic hazard, Cat- egory 1 | | H410: Very toxic to aquatic life with long lasting effects. | | |

2.2 Label elements

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

| Hazard pictograms | : | |
|--------------------------|---|---|
| Signal word | : | Danger |
| Hazard statements | : | H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H318 Causes serious eye damage. H410 Very toxic to aquatic life with long lasting effects. |
| Precautionary statements | : | Prevention:P273Avoid release to the environment.P280Wear protective gloves/ eye protection/ face protection. |
| | | Response: P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor. P331 Do NOT induce vomiting. P391 Collect spillage. Disposal: P501 Dispose of contents/container to a licensed hazardous-waste disposalcontractor or collection site except for empty clean containers whichcan be disposed of as non-hazardous waste. |

Hazardous components which must be listed on the label:

Hydrocarbons, C10-C13, aromatics, <1% naphthalene Reaction mass of N,N-dimethyldecan-1-amide and N,N-dimethyloctanamide clopyralid (ISO) Hydrocarbons, C10, aromatics, <1% naphthalene

Additional Labelling

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



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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.

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. 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 | 14.28 |
| clopyralid (ISO) | 1702-17-6 216-935-4 607-231-00-1 | Eye Dam. 1; H318 Aquatic Chronic 1; H410 M-Factor (Chronic aquatic toxicity): 10 | 7.7 |
| florasulam (ISO) | 145701-23-1 613-230-00-7 | Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 100 M-Factor (Chronic aquatic toxicity): 100 | 0.24 |
| Hydrocarbons, C10-C13, aromatics, <1% naphthalene | Not Assigned 922-153-0 01-2119451097-39, 01-2119451097-39- 0008, 01- 2119451097-39- | Asp. Tox. 1; H304 Aquatic Chronic 2; H411 | >= 40 - < 50 |





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| Read | tion mass of N.N. | 211 001 | 09, 01- 19451097-39- 10 t Assigned | Skin Irrit. 2; H315 | >= 10 - < 20 |
| dimet | Reaction mass of N,N- dimethyldecan-1-amide and N,N- dimethyloctanamide | | 9-125-3 2119974115-3 | Eye Dam. 1; H318 | 2-10-220 |
| | Benzenesulfonic acid, mono-C11-13- branched alkyl derivs., calcium salts | | 953-96-8 3-234-6 2119964467-2 | Acute Tox. 4; H312 Skin Irrit. 2; H315 4 Eye Dam. 1; H318 Aquatic Chronic 2; H411 | >= 3 - < 10 |
| hexar | n-1-ol | 203 603 | I-27-3 3-852-3 3-059-00-6 2119487967-1 | Flam. Liq. 3; H226 Acute Tox. 4; H302 Eye Irrit. 2; H319 STOT SE 3; H336 (Central nervous system) | >= 1 - < 3 |
| | ocarbons, C10, aroma thalene | 918 01- 000 211 000 | 39173-42-9 3-811-1 2119463583-3 08, 01- 19463583-34- 09, 01- 19463583-34- 10 | STOT SE 3; H336 (Central nervous | >= 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 respi- ration; 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. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice. Suitable emergency safety shower facility should be available |

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| | | in work area. | | | | |
| In case of eye contact | | 20 minutes. Re minutes, then o center or docto | n and rinse slowly and gently with water for 15- move contact lenses, if present, after the first 5 continue rinsing eyes. Call a poison control r for treatment advice. lency eye wash facility should be available in | | | |
| If swallowed | | induce vomiting or doctor. Do n | 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. | | | |
| | important symptoms known. | and effects, both ac | ute and delayed | | | |
| 4.3 Indica | tion of any immediat | e medical attention a | and special treatment needed | | | |
| | ment | other respirator tive airways dy Maintain adequ May cause astl chodilators, exp may be of help Respiratory syn delayed. Perso observed 24-48 If burn is prese nation. If lavage is perf geal control. D against toxicity The decision of made by a phy No specific ant Treatment of ex symptoms and Have the Safet tainer or label w | mptoms, including pulmonary edema, may be ns receiving significant exposure should be 3 hours for signs of respiratory distress. nt, treat as any thermal burn, after decontami- formed, suggest endotracheal and/or esopha- tanger from lung aspiration must be weighed when considering emptying the stomach. f whether to induce vomiting or not should be sician. idote. xposure should be directed at the control of the clinical condition of the patient. y Data Sheet, and if available, the product con- with you when calling a poison control center or | | | |

SECTION 5: Firefighting measures

5.1 Extinguishing media

| Suitable extinguishing media | : | Water spray Alcohol-resistant foam |
|--------------------------------|---|---------------------------------------|
| Unsuitable extinguishing media | : | None known. |



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| 5.2 Special hazards arising from the substance or mixture | | | | | |
| | Specific fighting | - | : | Exposure to comb | oustion products may be a hazard to health. |
| | Hazard ucts | lous combustion prod- | : | Nitrogen oxides (I Carbon oxides | NOx) |
| 5.3 | Advice | for firefighters | | | |
| | Specia for firef | l protective equipment ighters | : | | e, wear self-contained breathing apparatus. ective equipment. |
| | Specifi ods | c extinguishing meth- | : | so. Evacuate area. Use extinguishing cumstances and t Use water spray t Fire residues and | ged containers from fire area if it is safe to do measures that are appropriate to local cir- he surrounding environment. o cool unopened containers. contaminated fire extinguishing water must |
| | Further | information | : | Collect contamina must not be disch Fire residues and | accordance with local regulations. ted fire extinguishing water separately. This arged into drains. contaminated fire extinguishing water must accordance with local regulations. |

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

| Personal precautions : | Ensure adequate ventilation. 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. 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. |
| | | Least an actional regulations, may explute releases and dis |

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| | | For large spills, ment to keep m be pumped, Recovered mat The vent must with spilled mat pressurization of Keep in suitable Wipe up with al Neutralize with Soak up with in acid binder, uni | aterial, as well as those materials and items provide dyking or other appropriate contain- naterial from spreading. If dyked material can terial should be stored in a vented container. prevent the ingress of water as further reaction terials can take place which could lead to over- of the container. e, closed containers for disposal. bsorbent material (e.g. cloth, fleece). chalk, alkali solution or ammonia. hert absorbent material (e.g. sand, silica gel, iversal binder, sawdust). 6, Disposal Considerations, for additional infor- |

6.4 Reference to other sections

SECTION 7: Handling and storage

7.1 Precautions for safe handling

| Local/Total ventilation Advice on safe handling | :: | Use with local exhaust ventilation. Avoid formation of aerosol. 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. Smoking, eating and drinking should be prohibited in the ap- plication area. Do not get on skin or clothing. Do not get on skin or clothing. Do not swallow. Do not get in eyes. Avoid contact with skin and eyes. Keep container tightly closed. 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, | incl | uding any incompatibilities |
| Requirements for storage areas and containers | : | Store in a closed container. Containers which are opened must be carefully resealed and kept upright to prevent leak- age. Keep in properly labelled containers. Store in accordance with the particular national regulations. |
| Advice on common storage | : | Do not store near acids. Strong oxidizing agents |

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| Packaging material | | : Unsuitable mate | rial: None known. |
| - | ic end use(s) fic use(s) | : Plant protection 1107/2009. | products subject to Regulation (EC) No |

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

| Components | CAS-No. | Value type (Form of exposure) | Control parameters | Basis |
|----------------------------|-------------------------|---------------------------------|--------------------|---------|
| fluroxypyr-meptyl (ISO) | 81406-37-3 | Time Weighted Average (TWA): | 10 mg/m3 | Dow IHG |
| clopyralid (ISO) | pyralid (ISO) 1702-17-6 | | 10 mg/m3 | Dow IHG |

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/face protection Hand protection | : | Use chemical goggles. |
|--|---|--|
| Remarks | : | Use gloves chemically resistant to this material. 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"). 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. |



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| | | depend on the concentration of For emergency | r-purifying or positive-pressure supplied-air will specific operation and the potential airborne of the material. y conditions, use an approved positive-pressure breathing apparatus. |

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| 9.2 | Other information Surface tension | : | 36.1 mN/m, 25 °C |
|-----|--|----|--|
| | Oxidizing properties | : | No |
| | Explosive properties | : | No |
| | Viscosity Viscosity, kinematic | : | 7.8 cSt (40 °C) |
| | Solubility(ies) Water solubility Auto-ignition temperature | : | No data available none below 400 degC |
| | Density | : | No data available |
| | Relative density | : | No data available |
| | Relative vapour density | : | Test not performed, the product is a liquid. |
| | Vapour pressure | : | Test not performed, the product is a liquid. |
| | Lower explosion limit / Lower flammability limit | : | Test not performed, the product is a liquid. |
| | Upper explosion limit / Upper flammability limit | : | Test not performed, the product is a liquid. |
| | Flash point | : | ca. 100 °C Method: Pensky-Martens Closed Cup ASTM D 93 |
| | Boiling point/boiling range | : | Test not performed, the product is a liquid. |
| | Melting point/range | : | No data available |
| | рН | : | 2.49 (23.7 °C) Method: CIPAC MT 75 (1% aqueous suspension) |
| | Appearance Colour Odour Odour Threshold | :: | liquid Yellow to brown Aromatic No data available |



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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. None known.

10.4 Conditions to avoid

Conditions to avoid : None known.

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 toxicological effects

Acute toxicity

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 |

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| | | | o deaths occurred at this concentration. The substance or mixture has no acute dermal |
| clopy | ralid (ISO): | | |
| Acute | oral toxicity | : LD50 (Rat): > | 5,000 mg/kg |
| Acute | inhalation toxicity | Symptoms: N LC50 value is tration. | |
| Acute | dermal toxicity | Symptoms: N |): > 2,000 mg/kg o deaths occurred at this concentration. The substance or mixture has no acute dermal |
| floras | sulam (ISO): | | |
| Acute | oral toxicity | : LD50 (Rat): > | 6,000 mg/kg |
| | | LD50 (Mouse |): > 5,000 mg/kg |
| Acute | inhalation toxicity | | |
| Acute | dermal toxicity | |): > 2,000 mg/kg o deaths occurred at this concentration. The substance or mixture has no acute dermal |
| Hydro | ocarbons, C10-C13, | aromatics, <1% nap | hthalene: |
| - | oral toxicity | : LD50 (Rat): > | |
| Acute | inhalation toxicity | Assessment: tion toxicity | • 4.778 mg/l ere: dust/mist The substance or mixture has no acute inhala- • similar material(s): |
| Acute | dermal toxicity | Assessment: toxicity |): > 2,000 mg/kg The substance or mixture has no acute dermal [.] similar material(s): |



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| | ction mass of N,N-din | nethyldecan-1-amid : LD50 (Rat): > | e and N,N-dimethyloctanamide: 2,000 mg/kg |
| Acute | e inhalation toxicity | | |
| Acute | e dermal toxicity | : LD50 (Rat): > | 2,000 mg/kg |
| Benz | zenesulfonic acid, mo | ono-C11-13-branche | d alkyl derivs., calcium salts: |
| Acute | e oral toxicity | Method: OEC Symptoms: N Assessment: icity | ale and female): > 2,000 mg/kg D 401 or equivalent o deaths occurred at this concentration. The substance or mixture has no acute oral tox- similar material(s): |
| Acute | e dermal toxicity | Method: OEC | ale and female): > 1,000 - < 1,600 mg/kg D 402 or equivalent similar material(s): |
| hexa | ın-1-ol: | | |
| Acute | e oral toxicity | | ,210 mg/kg servations in animals include: entral nervous system depression. |
| Acute | e inhalation toxicity | Exposure time Test atmosph Symptoms: N | |
| Acute | e dermal toxicity | : LD50 (Rabbit |): 2,530 mg/kg |
| Hydr | ocarbons, C10, arom | atics, <1% naphtha | lene: |
| - | e oral toxicity | : LD50 (Rat): > | |
| Acute | e inhalation toxicity | tion toxicity Remarks: For | e: 4 h |

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| Acute | e dermal toxicity | Asse toxici | ssment: Tl | > 2,000 mg/kg he substance or mixture has no acute dermal imilar material(s): |
| Skin | corrosion/irritation | | | |
| Com | oonents: | | | |
| fluro | (ypyr-meptyl (ISO): | | | |
| Speci Resul | | : Rabb : No sl | oit kin irritatio | n |
| React | tion mass of N,N-dim | ethyldecan | -1-amide | and N,N-dimethyloctanamide: |
| Speci | | : Rabb | | |
| Resul | t | : Skin | irritation | |
| Benz | enesulfonic acid, mo | no-C11-13- | branched | alkyl derivs., calcium salts: |
| Speci | | : Rabb | | |
| Resul | lt | : Skin | irritation | |
| hexai | n-1-ol: | | | |
| Resul | lt | : Mild | skin irritatio | on |
| Serio | us eye damage/eye i | rritation | | |
| Com | oonents: | | | |
| clopy | vralid (ISO): | | | |
| Speci | | : Rabb | oit | |
| Resul | t | : Corro | osive | |
| React | tion mass of N,N-dim | ethyldecan | -1-amide | and N,N-dimethyloctanamide: |
| Speci | es | : Rabb | oit | |
| Resul | lt | : Corro | osive | |
| Benz | enesulfonic acid, mo | no-C11-13- | branched | alkyl derivs., calcium salts: |
| Resul | | : Corro | | · · · |
| hova | n-1-ol: | | | |
| Resul | | : Evei | rritation | |
| Resul | | . Lyci | mation | |
| Resp | iratory or skin sensit | isation | | |
| <u>Produ</u> | | | | |
| Speci | es ssment | | ea pig | e skin sensitisation. |
| | CONDOT | | | |



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| | Method Remark | S | : | OECD Test Guide | line 406 e: Internal study report |
| | <u>Compo</u> | nents: | | | |
| | fluroxy | pyr-meptyl (ISO): | | | |
| | Species Assessr | | : | Guinea pig Does not cause sł | kin sensitisation. |
| | clopyra | lid (ISO): | | | |
| | Species Assessr | | : | Guinea pig Does not cause sł | kin sensitisation. |
| | florasul | lam (ISO): | | | |
| | Remark | S | : | Did not cause alle pigs. | rgic skin reactions when tested in guinea |
| | Remark | S | : | For respiratory ser No relevant data f | |
| Hydrocarbons, C10-C13, aromatics, <1% naphthalene: | | | | lene: | |
| | Remark | S | : | For similar materia Did not cause alle pigs. | al(s): rgic skin reactions when tested in guinea |
| | Remark | S | : | For respiratory ser No relevant data f | |
| | Reactio | on mass of N,N-dimet | hyl | decan-1-amide an | d N,N-dimethyloctanamide: |
| | Species | i | : | Guinea pig | |
| | Assessr Remark | | : | Does not cause sk For similar materia | |
| | Benzen | esulfonic acid, mono | b-C 1 | 1-13-branched all | kyl derivs., calcium salts: |
| | Remark | S | : | For skin sensitizat For similar materia Did not cause alle pigs. | - |
| | Remark | S | : | For respiratory ser No relevant data f | |
| | hexan-1 | I-ol: | | | |
| | Assessr Remark | | : | pigs. | kin sensitisation. rgic skin reactions when tested in guinea rgic skin reactions when tested in humans. |



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| Rema | rks | : For respiratory sensitization: No relevant data found. | | | | |
| Hydro | ocarbons, C10, aromat | tics, | <1% naphthalen | e: | | |
| Rema | rks | : | For similar mater Did not cause all pigs. | ial(s): ergic skin reactions when tested in guinea | | |
| Rema | rks | : | For respiratory so No relevant data | | | |
| Germ | cell mutagenicity | | | | | |
| Comp | onents: | | | | | |
| flurox | ypyr-meptyl (ISO): | | | | | |
| Germ sessm | cell mutagenicity- As- nent | : | In vitro genetic to toxicity studies w | xicity studies were negative., Animal genet ere negative. | | |
| clopy | ralid (ISO): | | | | | |
| Germ sessm | cell mutagenicity- As- nent | : | In vitro genetic to toxicity studies w | xicity studies were negative., Animal genet ere negative. | | |
| floras | ulam (ISO): | | | | | |
| | cell mutagenicity- As- | : | In vitro genetic to toxicity studies w | xicity studies were negative., Animal genet ere negative. | | |
| Hydro | ocarbons, C10-C13, ar | oma | itics, <1% naphth | alene: | | |
| • | cell mutagenicity- As- | | For similar mater | ial(s):, In vitro genetic toxicity studies were I genetic toxicity studies were negative. | | |
| React | ion mass of N,N-dime | thyl | decan-1-amide a | nd N,N-dimethyloctanamide: | | |
| Germ sessm | cell mutagenicity- As- nent | : | In vitro genetic to | xicity studies were negative. | | |
| Benze | enesulfonic acid, mon | o-C | 11-13-branched a | lkyl derivs., calcium salts: | | |
| Germ sessm | cell mutagenicity- As- nent | : | | ial(s):, In vitro genetic toxicity studies were I genetic toxicity studies were negative. | | |
| hexar | n-1-ol: | | | | | |
| Germ sessm | cell mutagenicity- As- nent | : | In vitro genetic to toxicity studies w | xicity studies were negative., Animal genet ere negative. | | |
| Hydro | ocarbons, C10, aromat | tics, | <1% naphthalen | e: | | |
| Germ sessm | cell mutagenicity- As- nent | : | | ial(s):, In vitro genetic toxicity studies were I genetic toxicity studies were negative. | | |



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| Carci | nogenicity | | |
| Comp | oonents: | | |
| | kypyr-meptyl (ISO): | | |
| ment | nogenicity - Assess- | | tive ingredient(s)., Fluroxypyr., Did not cause pratory animals. |
| clopy | vralid (ISO): | | |
| Carcir ment | nogenicity - Assess- | : Did not cause | e cancer in laboratory animals. |
| floras | sulam (ISO): | | |
| Carcir ment | nogenicity - Assess- | : Did not cause | e cancer in laboratory animals. |
| • | ocarbons, C10-C13, a | · · · · | |
| Carcir ment | nogenicity - Assess- | | hthalene which has caused cancer in some la- nals., However, the relevance of this to humans is |
| hexar | n-1-ol: | | |
| Carcir ment | nogenicity - Assess- | : Did not cause | e cancer in animal skin painting studies. |
| Hydro | ocarbons, C10, aroma | atics, <1% naphtha | lene: |
| Carcir ment | nogenicity - Assess- | | hthalene which has caused cancer in some la- nals., However, the relevance of this to humans is |
| Repro | oductive toxicity | | |
| Comp | oonents: | | |
| fluro | (ypyr-meptyl (ISO): | | |
| Repro sessn | oductive toxicity - As- nent | Has been tox | dies, did not interfere with reproduction. ic to the fetus in laboratory animals at doses other., Did not cause birth defects in laboratory |
| clopy | ralid (ISO): | | |
| | oductive toxicity - As- | Clopyralid ca greatly exagg mothers. No I | dies, did not interfere with reproduction. used birth defects in test animals, but only at perated doses that were severely toxic to the pirth defects were observed in animals given doses several times greater than those expected I exposure. |
| floras | sulam (ISO): | | |
| | oductive toxicity - As- | | dies, did not interfere with reproduction. e birth defects or other effects in the fetus even at |
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| | | doses which | caused toxic effects in the mother. |
| Hydro | ocarbons, C10-C13, | aromatics, <1% nar | hthalene: |
| Repro sessn | oductive toxicity - As- nent | | aterial(s):, Did not cause birth defects or any ects in laboratory animals. |
| React | tion mass of N,N-din | nethyldecan-1-amid | e and N,N-dimethyloctanamide: |
| Repro sessn | oductive toxicity - As- nent | | aterial(s):, Did not cause birth defects or any ects in laboratory animals. |
| Benze | enesulfonic acid, mo | ono-C11-13-branche | ed alkyl derivs., calcium salts: |
| Repro sessn | oductive toxicity - As- nent | reproduction. For similar m | aterial(s):, In animal studies, did not interfere w aterial(s):, Did not cause birth defects or any ects in laboratory animals. |
| hexar | 1-1-ol: | | |
| Repro sessn | oductive toxicity - As- nent | | dies, did not interfere with reproduction. e birth defects in laboratory animals. |
| Hydro | ocarbons, C10, arom | atics, <1% naphtha | lene: |
| - | oductive toxicity - As- | : In animal stu For similar m | dies, did not interfere with reproduction. aterial(s):, Did not cause birth defects or any ects in laboratory animals. |
| sтот | - single exposure | | |
| <u>Produ</u> | uct: | | |
| Asses | ssment | : Evaluation of an STOT-SE | available data suggests that this material is no toxicant. |
| <u>Comp</u> | oonents: | | |
| clopy | ralid (ISO): | | |
| Asses | ssment | : Evaluation of an STOT-SE | available data suggests that this material is no toxicant. |
| Hydro | ocarbons, C10-C13, | aromatics, <1% nap | hthalene: |
| Asses | sment | : Evaluation of an STOT-SE | available data suggests that this material is no toxicant. |
| React | tion mass of N,N-din | nethyldecan-1-amid | e and N,N-dimethyloctanamide: |
| Expos | sure routes | : Inhalation | espiratory irritation. |



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| Benze | enesulfonic acid, m | ono-C11-13-branched alkyl derivs., calcium salts: |
| Asses | sment | : Available data are inadequate to determine single exposure specific target organ toxicity. |
| hexan | -1-ol: | |
| Expos | ure routes | : Oral |
| | t Organs | : Central nervous system |
| Asses | sment | : May cause drowsiness or dizziness. |
| Hydro | carbons, C10, aron | natics, <1% naphthalene: |
| Expos | ure routes | : Inhalation |
| - | sment | : May cause drowsiness or dizziness. |
| стот | - repeated exposur | ·e |
| <u>Produ</u> | ict: | |
| Asses | sment | : Evaluation of available data suggests that this material is no an STOT-RE toxicant. |
| Repea | ated dose toxicity | |
| <u>Comp</u> | onents: | |
| | ypyr-meptyl (ISO): | |
| Rema | rks | : Based on available data, repeated exposures are not anticipated to cause significant adverse effects. |
| clopy | ralid (ISO): | |
| Rema | rks | : Based on available data, repeated exposures are not anticipated to cause additional significant adverse effects. |
| floras | ulam (ISO): | |
| Rema | rks | : In animals, effects have been reported on the following or- gans: Kidney. |
| Hydro | carbons, C10-C13, | aromatics, <1% naphthalene: |
| Rema | rks | : Based on available data, repeated exposures are not antici- pated to cause significant adverse effects. |
| React | ion mass of N,N-dir | methyldecan-1-amide and N,N-dimethyloctanamide: |
| Rema | rks | : For similar material(s): Based on available data, repeated exposures are not antici- pated to cause significant adverse effects. |
| Benze | enesulfonic acid, m | ono-C11-13-branched alkyl derivs., calcium salts: |
| | | |



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| | | | | In animals, effects gans: Kidney. | have been reported on the following or- |
| | hexan- | 1-ol: | | | |
| | Remark | | : | In animals, effects gans: Gastrointestinal tra | have been reported on the following or- act. |
| | Hydroc | carbons, C10, aromat | ire | <1% nanhthalene | |
| | Remark | | : | Based on availabl | • e data, repeated exposures are not antici- ditional significant adverse effects. |
| | Aspira | tion toxicity | | | |
| | Compo | onents: | | | |
| | - | pyr-meptyl (ISO): on physical properties, | not | likely to be an aspi | iration hazard. |
| | clopyra | alid (ISO): | | | |
| | | on physical properties, | not | likely to be an aspi | iration hazard. |
| | | Ilam (ISO): on physical properties, | not | likely to be an asp | iration hazard. |
| | - | carbons, C10-C13, ard fatal if swallowed and | | · · · · · | llene: |
| | | on mass of N,N-dimet harmful if swallowed a | - | | d N,N-dimethyloctanamide: |
| | | nesulfonic acid, mono on physical properties, | | | kyl derivs., calcium salts: iration hazard. |
| | hexan- May be | 1-ol: harmful if swallowed a | and | enters airways. | |
| | - | carbons, C10, aromat | | - | : |



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SECTION 12: Ecological information

12.1 Toxicity

| Product: | | |
|---|---|---|
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): 6.9 mg/l Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202 or Equivalent Remarks: Information source: Internal study report |
| | | |
| Toxicity to algae/aquatic plants | : | ErC50 (Pseudokirchneriella subcapitata (green algae)): 3.1 mg/l End point: Biomass Exposure time: 72 h Method: OECD Test Guideline 201 or Equivalent |
| | | ErC50 (diatom Navicula sp.): 1.7 mg/l End point: Biomass Exposure time: 72 h Method: OECD Test Guideline 201 or Equivalent |
| | | ErC50 (Lemna gibba): 0.0424 mg/l End point: Growth rate inhibition Exposure time: 7 d Method: OECD Test Guideline 221 |
| Toxicity to soil dwelling or- ganisms | : | LC50: 248.21 mg/kg Exposure time: 14 d Species: Eisenia fetida (earthworms) |
| Toxicity to terrestrial organ- isms | : | oral LD50: > 2250 mg/kg bodyweight. Species: Colinus virginianus (Bobwhite quail) |
| | | oral LD50: > 86.7 μg/bee Exposure time: 48 h Species: Apis mellifera (bees) |
| | | contact LD50: > 200 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: | | |
| fluroxypyr-meptyl (ISO): Toxicity to fish | : | Remarks: Material is very highly toxic to aquatic organisms on |

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| | | an acute basis (L species). | C50/EC50 <0.1 mg/L in the most sensitive |
| | | Exposure time: 9 Test Type: semi- | |
| Toxicity to daphnia and othe aquatic invertebrates | r: | Exposure time: 4 Test Type: semi- | |
| Toxicity to algae/aquatic plants | : | Exposure time: 7 Test Type: static | |
| | | EbC50 (alga Sce Exposure time: 7 | nedesmus sp.): > 0.47 mg/l 2 h |
| | | ErC50 (Selenasti mg/l Exposure time: 9 | rum capricornutum (green algae)): > 1.410 6 h |
| | | ErC50 (Myriophy Exposure time: 1 | llum spicatum): 0.075 mg/l 4 d |
| | | NOEC (Myriophy Exposure time: 1 | llum spicatum): 0.031 mg/l 4 d |
| Toxicity to fish (Chronic tox- icity) | : | NOEC: 0.32 mg/l Species: Rainbov | v trout (Oncorhynchus mykiss) |
| Toxicity to soil dwelling or- ganisms | : | LC50: > 1,000 m Species: Eisenia | g/kg fetida (earthworms) |
| Toxicity to terrestrial organ- isms | : | basis (LD50 > 20 | cally non-toxic to birds on a dietary basis |
| | | Exposure time: 5 | 0 mg/kg bodyweight. d virginianus (Bobwhite quail) |
| | | dietary LC50: > 5 Species: Colinus | 000 mg/kg diet. virginianus (Bobwhite quail) |
| | | oral LD50: > 100 Exposure time: 4 Species: Apis me | 8 h |

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| | | | | contact LD50: > 1 Exposure time: 48 Species: Apis mel | |
| | clopyralid (ISO): Toxicity to fish | | : | Exposure time: 96 | |
| | | | | Test Type: static t NOEC (Lepomis r Exposure time: 96 | nacrochirus (Bluegill sunfish)): > 102 mg/l |
| | | to daphnia and other invertebrates | : | EC50 (Daphnia m Exposure time: 48 Test Type: static t | |
| | Toxicity to algae/aquatic plants | | : | ErC50 (Pseudokir mg/l End point: Growth Exposure time: 96 | |
| | | | | ErC50 (Myriophyll Exposure time: 14 | um spicatum): > 3 mg/l · d |
| | | | | NOEC (Myriophyll Exposure time: 14 | um spicatum): 0.0089 mg/l d |
| | Toxicity | to microorganisms | : | (Bacteria): > 100 | mg/l |
| | Toxicity icity) | to fish (Chronic tox- | : | NOEC: 10.8 mg/l End point: Other Exposure time: 34 Species: Pimepha Method: OECD Te | les promelas (fathead minnow) |
| | | to daphnia and other invertebrates (Chron- y) | : | Test Type: static t | magna (Water flea) |
| | M-Facto toxicity) | or (Chronic aquatic | : | 10 | |
| | | to soil dwelling or- S | : | LC50: > 1,000 mg Exposure time: 14 End point: surviva Species: Eisenia f | d |
| | Toxicity isms | to terrestrial organ- | : | oral LD50: 1465 n Species: Anas pla | ng/kg bodyweight. tyrhynchos (Mallard duck) |
| | | | | dietary LC50: > 50 | 000 mg/kg diet. |

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| | | | Species: Anas pla | tyrhynchos (Mallard duck) |
| | | | oral LD50: > 100 Exposure time: 48 End point: mortali Species: Apis me | 3 h ty |
| | | | contact LD50: > 9 Species: Apis me | 8.1 micrograms/bee llifera (bees) |
| Ecoto | oxicology Assessment | | | |
| Acute | aquatic toxicity | : | Toxic to aquatic li | fe. |
| Chron | ic aquatic toxicity | : | Very toxic to aqua | tic life with long lasting effects. |
| floras | ulam (ISO): | | | |
| Toxici | ty to fish | : | | I is very highly toxic to aquatic organisms on C50/EC50 <0.1 mg/L in the most sensitive |
| | | | Exposure time: 96 Test Type: static | |
| | ty to daphnia and other ic invertebrates | : | Exposure time: 48 Test Type: static | |
| Toxici plants | ty to algae/aquatic | : | 0.00894 mg/l End point: Growth Exposure time: 72 Test Type: static | 2 h |
| | | | EC50 (Myriophylle End point: Growth Exposure time: 14 | |
| M-Fac icity) | ctor (Acute aquatic tox- | : | 100 | |
| Toxici icity) | ty to fish (Chronic tox- | : | NOEC: 119 mg/l End point: mortali Exposure time: 28 Species: Oncorhy Test Type: flow-th | d nchus mykiss (rainbow trout) |
| | | | NOEC: > 2.9 mg/ End point: Other | |

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| | | | | Exposure time: 33 Species: Pimepha Test Type: flow-th | lles promelas (fathead minnow) |
| | Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity) | | | NOEC: 38.90 mg/ End point: growth Exposure time: 21 Species: Daphnia Test Type: semi-s | d magna (Water flea) |
| | | | | End point: growth Exposure time: 21 | magna (Water flea) |
| | | or (Chronic aquatic | : | 100 | |
| | toxicity) Toxicity ganism | to soil dwelling or- | : | LC50: > 1,320 mg Exposure time: 14 Species: Eisenia f | • |
| | Toxicity isms | v to terrestrial organ- | : | (LD50 between 50 | l is slightly toxic to birds on an acute basis)1 and 2000 mg/kg). ally non-toxic to birds on a dietary basis n). |
| | | | | oral LD50: 1047 n Species: Coturnix | ng/kg bodyweight. japonica (Japanese quail) |
| | | | | dietary LC50: > 5, Exposure time: 8 d Species: Anas pla | |
| | | | | oral LD50: > 100 r Exposure time: 48 Species: Apis mel | 3 h |
| | | | | contact LD50: > 1 Exposure time: 48 Species: Apis mel | |
| | Hydroc | arbons, C10-C13, arc | oma | tics, <1% naphtha | llene: |
| | Toxicity | r to fish | : | | ately toxic to aquatic organisms on an acute between 1 and 10 mg/L in the most sensi- |
| | | | | EC50 (Oncorhync Exposure time: 96 Remarks: For sim | |



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| | Toxicity to daphnia and other aquatic invertebrates Toxicity to algae/aquatic plants | | : | : EC50 (Daphnia magna (Water flea)): 1.1 mg/l Exposure time: 48 h Remarks: For similar material(s): | | | |
| | | | : | EC50 (Pseudokiro mg/l Exposure time: 72 Remarks: For sim | | | |
| | Ecotox | cicology Assessment | | | | | |
| | Chronic | c aquatic toxicity | : | Toxic to aquatic lif | fe with long lasting effects. | | |
| | Reaction | on mass of N,N-dimet | hyl | decan-1-amide an | d N,N-dimethyloctanamide: | | |
| | Toxicity | v to fish | : | LC50 (Danio rerio Exposure time: 96 | (zebra fish)): 14.8 mg/l S h | | |
| | | to daphnia and other invertebrates | : | LC50 (Daphnia m Exposure time: 48 | agna (Water flea)): 7.7 mg/l 3 h | | |
| | Toxicity to algae/aquatic plants | | : | EC50 (Pseudokiro mg/l Exposure time: 72 | chneriella subcapitata (green algae)): 16.06 2 h | | |
| | Ecotox | cicology Assessment | | | | | |
| | Acute a | aquatic toxicity | : | Toxic to aquatic lif | fe. | | |
| | Benzei | nesulfonic acid, mono | b-C 1 | 11-13-branched al | kyl derivs., calcium salts: | | |
| | Toxicity | <i>t</i> to fish | : | | I is slightly toxic to aquatic organisms on an 0/EC50 between 10 and 100 mg/L in the ecies tested). | | |
| | | | | LC50 (zebra fish (Exposure time: 96 Remarks: For sim | | | |
| | | v to daphnia and other invertebrates | : | EC50 (Daphnia m Exposure time: 48 | agna (Water flea)): 62 mg/l 3 h | | |
| | Toxicity plants | v to algae/aquatic | : | ErC50 (Selenastru End point: Growth Exposure time: 96 Remarks: For sim | ን h | | |
| | Toxicity | v to microorganisms | : | EC50 (activated s End point: Respira Exposure time: 3 Remarks: For sim | ation rates. h | | |
| | Toxicity icity) | v to fish (Chronic tox- | : | NOEC: 0.23 mg/l End point: surviva | l | | |

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| | | | | Exposure time: 72 Species: Rainbow Remarks: For sim | <i>י</i> trout (Salmo gairdneri) |
| | Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity) | | : | NOEC: 1.18 mg/l End point: numbe Exposure time: 21 Species: Daphnia Remarks: For sim | d magna (Water flea) |
| | hexan- | 1-ol: | | | |
| | Toxicity | r to fish | : | LC50 (Pimephale: Exposure time: 96 Test Type: flow-th Method: Other gu | rough test |
| | | to daphnia and other invertebrates | : | Exposure time: 24 Test Type: static t | |
| | Toxicity plants | to algae/aquatic | : | mg/l End point: Growth Exposure time: 72 Test Type: static t | 2 h |
| | Toxicity | to microorganisms | : | EC50 (Protozoa): Exposure time: 48 | |
| | Hydroc | arbons, C10, aromati | ics. | <1% naphthalene | : |
| | Toxicity | | : | • | hus mykiss (rainbow trout)): 2 - 5 mg/l ∂ h |
| | | to daphnia and other invertebrates | : | EC50 (Daphnia m Exposure time: 48 Remarks: For sim | |
| | Toxicity plants | to algae/aquatic | : | EC50 (Pseudokiro Exposure time: 72 Remarks: For sim | |
| | Ecotox | icology Assessment | | | |
| | | aquatic toxicity | : | Toxic to aquatic lit | fe with long lasting effects. |



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| 12.2 | 12.2 Persistence and degradability | | | | | | | |
| | Comp | onents: | | | | | | |
| | fluroxypyr-meptyl (ISO) : Biodegradability | | : | Result: Not biode Remarks: Materia OECD/EEC guide | al is not readily biodegradable according to | | | |
| | | | | Biodegradation: 3 Exposure time: 28 Method: OECD To Remarks: 10-day | 3 d est Guideline 301D or Equivalent | | | |
| | ThOD | | : | 2.2 kg/kg | | | | |
| | Stabilit | y in water | : | Test Type: Hydrol Degradation half I | | | | |
| | clopyr | alid (ISO): | | | | | | |
| | Biodegradability | | : | Biodegradation: 5 Exposure time: 28 Method: OECD To Remarks: 10-day | 3 d est Guideline 301B or Equivalent | | | |
| | Bioche mand (| mical Oxygen De- (BOD) | : | 0 mg/g 0 % Incubation time: 2 | 20 d | | | |
| | | cal Oxygen Demand | : | 0.73 kg/kg | | | | |
| | (COD) ThOD | | : | 0.71 kg/kg | | | | |
| | Stabilit | y in water | : | Test Type: Hydrol pH: 4 - 9 Method: Stable | lysis | | | |
| | Photoc | legradation | : | Test Type: Half-lif | fe (direct photolysis) | | | |
| | florası | ılam (ISO): | | | | | | |
| | | radability | : | | gradable I is expected to biodegrade very slowly (in Fails to pass OECD/EEC tests for ready | | | |
| | | | | Biodegradation: 2 Exposure time: 28 Method: OECD To Remarks: 10-day | 3 d est Guideline 301B or Equivalent | | | |
| | Bioche mand (| mical Oxygen De- (BOD) | : | 0.012 kg/kg Incubation time: 5 | 5 d | | | |



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| | ThOD | | : | 0.85 kg/kg | | | | |
| : | Stability in water Photodegradation | | : | Degradation half I | ife: > 30 d | | | |
| | | | : | Rate constant: 7.0 Method: Estimate | | | | |
| | Hydroc | arbons, C10-C13, arc | omatics, <1% naphthalene: | | | | | |
| | Biodegradability | | : | ilar material(s): ay occur under aerobic conditions (in the en). It OECD test guidelines, this material cannot readily biodegradable; however, these re- sarily mean that the material is not biode- nvironmental conditions. | | | | |
| | Reactio | on mass of N,N-dime | hyle | decan-1-amide an | d N,N-dimethyloctanamide: | | | |
| | Biodeg | radability | : | Remarks: Materia test(s) for ready b | l is readily biodegradable. Passes OECD iodegradability. | | | |
| | | | | Result: Readily bi Biodegradation: > Exposure time: 28 Method: OECD Te Remarks: 10-day | > 80 [°] % 3 d est Guideline 301F or Equivalent | | | |
| | Chemic (COD) | al Oxygen Demand | : | 2.890 mg/g | | | | |
| | Benzer | nesulfonic acid, mono | no-C11-13-branched alkyl derivs., calcium salts: | | | | | |
| | Biodeg | radability | : | Biodegradation: 2 Exposure time: 28 Method: OECD Te Remarks: 10-day | d est Guideline 301E or Equivalent | | | |
| | hexan- | 1-ol: | | | | | | |
| | Biodeg | radability | : | Result: Readily bio Remarks: Materia test(s) for ready b | l is readily biodegradable. Passes OECD | | | |
| | | | | Concentration: 2 r Biodegradation: 6 Exposure time: 30 Method: OECD Te Remarks: 10-day | 61 % 0 d est Guideline 301D or Equivalent | | | |
| | | | | Concentration: 5 r Biodegradation: 7 Exposure time: 30 Method: OECD Te Remarks: 10-day | 77 %) d est Guideline 301D or Equivalent | | | |



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| l la coluc | contrary C10 area | otion .40/ nonbibal | |
| - | gradability | | terial is inherently biodegradable (reaches > dation in OECD test(s) for inherent biodegrada- |
| 12.3 Bioac | cumulative potentia | al | |
| Comp | oonents: | | |
| flurox | (ypyr-meptyl (ISO): | | |
| Bioac | cumulation | | orhynchus mykiss (rainbow trout) ion factor (BCF): 26 sured |
| | on coefficient: n- ol/water | : | |
| Octain | ol/ water | log Pow: 5.04 Method: Meas Remarks: Bio Pow < 3). | |
| | ralid (ISO): | | |
| Bioac | cumulation | : Species: Fish Bioconcentrat Method: Meas | ion factor (BCF): < 1 |
| | on coefficient: n- ol/water | : | |
| | | log Pow: -2.63 Remarks: Bio Pow < 3). | 3 concentration potential is low (BCF < 100 or Log |
| floras | sulam (ISO): | | |
| Bioac | cumulation | : Species: Fish Exposure time Temperature: Bioconcentrat Method: Meas | e: 28 d 13 °C ion factor (BCF): 0.8 |
| | on coefficient: n- ol/water | : | |
| | | log Pow: -1.22 pH: 7.0 Remarks: Bioo Pow < 3). | 2 concentration potential is low (BCF < 100 or Log |
| Hydro | ocarbons, C10-C13, | aromatics, <1% nap | hthalene: |
| Partiti | on coefficient: n- ol/water | • | data available for this product. |



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| | | | Bioconcentratic between 5 and | on potential is high (BCF > 3000 or Log Pow 7). | | |
| Reac | tion mass of N,N-dim | ethyl | decan-1-amide | and N,N-dimethyloctanamide: | | |
| | ion coefficient: n- | : | | | | |
| octan | ol/water | | | oncentration potential is moderate (BCF be- 3000 or Log Pow between 3 and 5). | | |
| | | no-C | | alkyl derivs., calcium salts: | | |
| | Partition coefficient: n- octanol/water | | log Pow: 4.6 Method: OECD Test Guideline 107 or Equivalent Remarks: Bioconcentration potential is moderate (BCF be tween 100 and 3000 or Log Pow between 3 and 5). | | | |
| hexa | n-1-ol: | | | | | |
| | ion coefficient: n- | : | | | | |
| octan | ol/water | | Method: Measu Remarks: Bioco Pow < 3). | ired oncentration potential is low (BCF < 100 or Log | | |
| Hydro | ocarbons, C10, aroma | atics, | <1% naphthale | ne: | | |
| | ion coefficient: n- | : | | ata available for this product. | | |
| octan | ol/water | | For similar material(s): Bioconcentration potential is high (BCF > 3000 or Log Pow between 5 and 7). | | | |
| 2.4 Mobi | lity in soil | | | | | |
| <u>Com</u> | oonents: | | | | | |
| fluro | xypyr-meptyl (ISO): | | | | | |
| | oution among environ- al compartments | : | Koc: 6200 - 430 Remarks: Expe 5000). | 000 cted to be relatively immobile in soil (Koc > | | |
| clopy | vralid (ISO): | | | | | |
| | oution among environ- | : | Koc: 4.9 | | | |
| menta | al compartments | | Remarks: Pote tween 0 and 50 | ntial for mobility in soil is very high (Koc be-). | | |
| Stabil | ity in soil | : | Test Type: aero Dissipation time Method: Estima | | | |
| floras | sulam (ISO): | | | | | |
| | oution among environ- al compartments | : | Koc: 4 - 54 Remarks: Pote tween 0 and 50 | ntial for mobility in soil is very high (Koc be-). | | |



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| Stabil | Stability in soil | | : Dissipation time: 0.7 - 4.5 d | | | | | |
| Hydro | ocarbons, C10-C13, ar | oma | atics, <1% naphtha | alene: | | | | |
| | oution among environ- al compartments | : | : Remarks: No relevant data found. | | | | | |
| Reac | tion mass of N,N-dime | thy | decan-1-amide ar | nd N,N-dimethyloctanamide: | | | | |
| | oution among environ- al compartments | : | | al for mobility in soil is low (Koc between 500 | | | | |
| Benz | enesulfonic acid, mon | o-C | 11-13-branched al | kyl derivs., calcium salts: | | | | |
| | oution among environ- al compartments | : | Remarks: No rele | vant data found. | | | | |
| hexa | n-1-ol: | | | | | | | |
| | oution among environ- al compartments | : | Koc: 8.3 Remarks: Potenti tween 0 and 50). | al for mobility in soil is very high (Koc be- | | | | |
| Hydro | ocarbons, C10, aromat | tics | <1% naphthalene |): | | | | |
| Distril | | | Remarks: No relevant data found. | | | | | |
| 12.5 Resu | Its of PBT and vPvB a | sse | ssment | | | | | |
| Produ | uct: | | | | | | | |
| | ssment | : | to be either persis | ixture contains no components considered stent, bioaccumulative and toxic (PBT), or ind very bioaccumulative (vPvB) at levels of | | | | |
| Com | oonents: | | | | | | | |
| fluro | kypyr-meptyl (ISO): | | | | | | | |
| | ssment | : | lating and toxic (F | not considered to be persistent, bioaccumu- PBT) This substance is not considered to be ad very bioaccumulating (vPvB). | | | | |
| vaolo | vralid (ISO): | | | | | | | |
| | ssment | : | lating and toxic (F | not considered to be persistent, bioaccumu- PBT) This substance is not considered to be ad very bioaccumulating (vPvB). | | | | |
| floras | sulam (ISO): | | | | | | | |
| | ssment | : | lating and toxic (F | not considered to be persistent, bioaccumu- PBT) This substance is not considered to be ad very bioaccumulating (vPvB). | | | | |

Hydrocarbons, C10-C13, aromatics, <1% naphthalene:



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| Assessment | | : | lating and toxic | e is not considered to be persistent, bioaccumu (PBT) This substance is not considered to b and very bioaccumulating (vPvB). |
| React | ion mass of N,N-dime | thyl | decan-1-amide | and N,N-dimethyloctanamide: |
| Asses | sment | : | lating and toxic | e is not considered to be persistent, bioaccume ; (PBT) This substance is not considered to b and very bioaccumulating (vPvB). |
| Benze | enesulfonic acid, mon | o-C [,] | 11-13-branched | l alkyl derivs., calcium salts: |
| Asses | sment | : | lating and toxic | e is not considered to be persistent, bioaccum (PBT) This substance is not considered to b and very bioaccumulating (vPvB). |
| hexar | n-1-ol: | | | |
| Asses | sment | : | | e has not been assessed for persistence, bioa I toxicity (PBT). |
| Hydro | ocarbons, C10, aromat | ics, | <1% naphthale | ene: |
| Asses | sment | : | lating and toxic | e is not considered to be persistent, bioaccum (PBT) This substance is not considered to and very bioaccumulating (vPvB). |
| | | | | |
| 6 Other | adverse effects | | | |
| 6 Other <u>Produ</u> | | | | |
| <u>Produ</u> | | : | ered to have en REACH Article | ndocrine disrupting properties according to 57(f) or Commission Delegated regulation 0 or Commission Regulation (EU) 2018/605 a |
| <u>Produ</u> Endoc tial | <u>ict:</u> | : | ered to have en REACH Article (EU) 2017/210 | ndocrine disrupting properties according to 57(f) or Commission Delegated regulation 0 or Commission Regulation (EU) 2018/605 a |
| Produ Endoc tial | Ict: crine disrupting poten- | : | ered to have en REACH Article (EU) 2017/210 | ndocrine disrupting properties according to 57(f) or Commission Delegated regulation 0 or Commission Regulation (EU) 2018/605 a |
| Produ Endoc tial <u>Comp</u> flurox | uct: crine disrupting poten- conents: | : | ered to have en REACH Article (EU) 2017/210 levels of 0.1% Remarks: This | ndocrine disrupting properties according to 57(f) or Commission Delegated regulation 0 or Commission Regulation (EU) 2018/605 a or higher. |
| Produ Endoc tial Comp flurox Ozone | uct: crine disrupting poten- conents: cypyr-meptyl (ISO): | : | ered to have en REACH Article (EU) 2017/210 levels of 0.1% Remarks: This | ndocrine disrupting properties according to 57(f) or Commission Delegated regulation 0 or Commission Regulation (EU) 2018/605 a or higher. substance is not on the Montreal Protocol lis |
| Produ Endoc tial Comp flurox Ozone | uct: crine disrupting poten- conents: cypyr-meptyl (ISO): c-Depletion Potential | : | ered to have en REACH Article (EU) 2017/210 levels of 0.1% Remarks: This of substances Remarks: This | ndocrine disrupting properties according to 57(f) or Commission Delegated regulation 0 or Commission Regulation (EU) 2018/605 a or higher. substance is not on the Montreal Protocol lis that deplete the ozone layer. |
| Produ Endoc tial Comp flurox Ozone clopy Ozone | traiid (ISO): | : | ered to have en REACH Article (EU) 2017/210 levels of 0.1% Remarks: This of substances Remarks: This | ndocrine disrupting properties according to 57(f) or Commission Delegated regulation 0 or Commission Regulation (EU) 2018/605 a or higher. substance is not on the Montreal Protocol list that deplete the ozone layer. |
| Produ Endoc tial Comp flurox Ozone Clopy Ozone floras | act: crine disrupting poten- conents: cypyr-meptyl (ISO): e-Depletion Potential ralid (ISO): e-Depletion Potential | : : : | ered to have en REACH Article (EU) 2017/210 levels of 0.1% Remarks: This of substances Remarks: This of substances Remarks: This | 57(f) or Commission Delegated regulation 0 or Commission Regulation (EU) 2018/605 a or higher. substance is not on the Montreal Protocol list that deplete the ozone layer. substance is not on the Montreal Protocol list |
| Produ Endoc tial Comp flurox Ozone Clopy Ozone floras Ozone | uct: crine disrupting poten- conents: cypyr-meptyl (ISO): e-Depletion Potential ralid (ISO): e-Depletion Potential | : | ered to have en REACH Article (EU) 2017/210 levels of 0.1% Remarks: This of substances Remarks: This of substances Remarks: This of substances | ndocrine disrupting properties according to 57(f) or Commission Delegated regulation 0 or Commission Regulation (EU) 2018/605 a or higher. substance is not on the Montreal Protocol lis that deplete the ozone layer. substance is not on the Montreal Protocol lis that deplete the ozone layer. substance is not on the Montreal Protocol lis that deplete the ozone layer. |



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| | | of substance | es that deplete the ozone layer. |
| Rea | ction mass of N,N-dime | ethyldecan-1-ami | de and N,N-dimethyloctanamide: |
| Ozo | ne-Depletion Potential | | is substance is not on the Montreal Protocol list is that deplete the ozone layer. |
| Ben | zenesulfonic acid, mon | o-C11-13-branch | ed alkyl derivs., calcium salts: |
| Ozo | ne-Depletion Potential | | is substance is not on the Montreal Protocol list is that deplete the ozone layer. |
| hexa | an-1-ol: | | |
| Ozo | ne-Depletion Potential | | his substance is not on the Montreal Protocol list that deplete the ozone layer. |
| Hyd | rocarbons, C10, aroma | tics, <1% naphtha | alene: |
| Ozo | ne-Depletion Potential | | is substance is not on the Montreal Protocol list as 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 regulations.

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

SECTION 14: Transport information

14.1 UN number

| ADR | : | UN 3082 |
|------|---|---------|
| RID | : | UN 3082 |
| IMDG | : | UN 3082 |
| ΙΑΤΑ | : | UN 3082 |
| | | |

14.2 UN proper shipping name



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| ADR | | : | ENVIRONMENTA N.O.S. (Fluroxypyr, Clopy | ALLY HAZARDOUS SUBSTANCE, LIQUID, |
| RID | | : | ENVIRONMENTA N.O.S. (Fluroxypyr, Clop | ALLY HAZARDOUS SUBSTANCE, LIQUID, |
| IMDG |) | : | ENVIRONMENTA N.O.S. (Fluroxypyr, Clop | ALLY HAZARDOUS SUBSTANCE, LIQUID, |
| ΙΑΤΑ | | : | Environmentally hazardous substance, liquid, n.o.s. (Fluroxypyr, Clopyralid) | |
| 14.3 Trans | sport hazard class(es) | | | |
| | | | Class | Subsidiary risks |
| ADR | | : | 9 | |
| RID | | : | 9 | |
| IMDG | ; | : | 9 | |
| ΙΑΤΑ | | : | 9 | |
| 14.4 Pack | ing group | | | |
| Class Haza Label | ing group sification Code rd Identification Number ls el restriction code | : | III M6 90 9 (-) | |
| RID Packi Class | ing group ification Code rd Identification Number | : | III M6 90 9 | |
| Label | ing group Is Code | : | III 9 F-A, S-F Stowage category | y A |
| IATA Packi aircra Packi | (Cargo) ing instruction (cargo ift) ing instruction (LQ) ing group | : | 964 Y964 III Miscellaneous | |
| Packi ger ai | (Passenger) ing instruction (passen- ircraft) ing instruction (LQ) | : | 964 Y964 | |



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| Pack Labe | ing group Is | : | III Miscellaneous | |
| 14.5 Envi | ronmental hazards | | | |
| ADR Envir | onmentally hazardous | : | yes | |
| RID Envir | onmentally hazardous | : | yes | |
| IMDO Marir | 3 ne pollutant | : | yes(Fluroxypyr, C | Clopyralid) |

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

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

| UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation | : | Not applicable |
|--|-----|---------------------|
| The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Brit- | : t | Not applicable |
| | | NI 2 11 11 |
| Regulation (EC) No 1005/2009 on substances that deplete the ozone layer | : | Not applicable |
| UK REACH List of substances subject to authorisation | : | Not applicable |
| (Annex XIV) | • | |
| Seveso III: Directive 2012/18/EU of the Euro- pean Parliament and of the Council on the control of major-accident hazards involving dangerous substances. | EΝ\ | /IRONMENTAL HAZARDS |

Registration Number : MAPP 18952



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15.2 Chemical safety assessment

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

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

SECTION 16: Other information

Full text of H-Statements

| 11000 | Elemental la l'avrid and contactu |
|----------------------------------|--|
| 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. |
| H318 : | Causes serious eye damage. |
| H319 : | Causes serious eye irritation. |
| H335 : | May cause respiratory irritation. |
| H336 : | May cause drowsiness or dizziness. |
| 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 | 5 |
| 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 |
| Eye Irrit. : | Eye irritation |
| Flam. Liq. : | Flammable liquids |
| Skin Irrit. | Skin irritation |
| STOT SE : | Specific target organ toxicity - single exposure |
| Dow IHG : | Dow Industrial Hygiene Guideline |
| Dow IHG / TWA : | Time Weighted Average (TWA): |
| Dow IHG / TWA : | Time weighted average |
| | e International Carriage of Dangerous Goods by Road; AS |
| | of Materiala, ΓC_{Y} , Concentration appealated with y^{0} res |

ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; ASTM -American Society for the Testing of Materials; ECx - Concentration associated with x% response; EmS - Emergency Schedule; ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - not otherwise specified; NOEC - Non-Observed Effective Concentration; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; (Q)SAR - (Quantitative) Structure Activity Relationship; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SDS - Safety Data Sheet; UN -United Nations.

Further information

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



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| Other i | nformation | valid and approve Authority has dete criteria. Our comp sion and has ther | this Safety Data Sheet are recognized as ed by our company. The national Competent ermined its classification based on other bany abides by the applicable national deci- refore implemented the mandated classifica- ne approved company data will still be pre- |
| Classi | fication of the mixtur | e: | Classification procedure: |
| Skin Iri | rit. 2 | H315 | Calculation method |
| Eye Da | am. 1 | H318 | Calculation method |
| Asp. T | ox. 1 | H304 | Based on product data or assessment |
| Aquatio | c Acute 1 | H400 | Based on product data or assessment |
| Aquatio | c Chronic 1 | H410 | Based on product data or assessment |

Product code: GF-1374

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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