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

SDS Number:

S00059131195

1.1 Product identifier

| Trade name | : | APROVIA PLUS |
|------------------------------------|---|---------------------|
| Design code | : | A15457H |
| Product Registration Number | : | MAPP 19174 |
| Unique Formula Identifier (UFI) | : | 6NU5-A06G-Y000-SKW4 |

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

| Use of the Sub- stance/Mixture | : Fungicide | |
|-----------------------------------|-------------------------------------|--|
| Recommended restrictions on use | : professional use professional use | |

1.3 Details of the supplier of the safety data sheet

| Company | : | Syngenta UK Limited CPC4, Capital Park Fulbourn, Cambridge CB21 5XE United Kingdom |
|--|---|---|
| Telephone | : | +44 (0) 1223 883400 |
| Telefax | : | +44 (0) 1223 882195 |
| E-mail address of person responsible for the SDS | : | product.technical_enquiries@syngenta.com |

1.4 Emergency telephone number

Emergency telephone num- : +44 1484 538444 ber

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Acute toxicity, Category 4 Acute toxicity, Category 4 Serious eye damage, Category 1 Skin sensitisation, Category 1 Specific target organ toxicity - single exposure, Category 3, Respiratory system H302: Harmful if swallowed.

- H332: Harmful if inhaled.
- H318: Causes serious eye damage.
- H317: May cause an allergic skin reaction.

H335: May cause respiratory irritation.

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Short-term (acute) aquatic hazard, Category 1 Long-term (chronic) aquatic hazard, Category 1 H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

2.2 Label elements

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

| Hazard pictograms | : | |
|-----------------------------------|---|--|
| Signal word | : | Danger |
| Hazard statements | : | H302 + H332 Harmful if swallowed or if inhaled. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H335 May cause respiratory irritation. H410 Very toxic to aquatic life with long lasting effects. |
| Supplemental Hazard Statements | : | EUH066 Repeated exposure may cause skin dryness or cracking. |
| Precautionary statements | : | Prevention:P261Avoid breathing mist or vapours.P264Wash skin thoroughly after handling.P280Wear protective gloves/ eye protection/ face protection. |
| | | Response:P304 + P340 + P312IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISONCENTER/ doctor if you feel unwell.P305 + P351 + P338 + P310IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if pre- sent and easy to do. Continue rinsing. Immediately call a |
| | | Disposal: P501 Dispose of contents/container to a licensed hazardous- waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste. |

Hazardous components which must be listed on the label:

mixture of octanoic acid- decanoic acid- N,N-dimethylamide poly(oxy-1,2-ethanediyl), alpha-(9Z)-9-octadecenyl-omega-hydroxybenzovindiflupyr (ISO)

Additional Labelling

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

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

| Chemical name | CAS-No. EC-No. Index-No. Registration number | Classification | Concentration (% w/w) |
|--|---|--|--------------------------|
| mixture of octanoic acid- decanoic acid- N,N-dimethylamide | 1118-92-9 214-272-5 | Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H335 (Respiratory sys- tem) | >= 20 - < 30 |
| hydrocarbons, C10-C13, aromatics, <1% naphthalene | Not Assigned UK-01-2250044631- 9-0001 | Asp. Tox. 1; H304 Aquatic Chronic 2; H411 | >= 20 - < 25 |
| poly(oxy-1,2-ethanediyl), alpha-(9Z)- 9-octadecenyl-omega-hydroxy- | 9004-98-2 500-016-2 | Eye Dam. 1; H318 | >= 20 - < 30 |
| benzovindiflupyr (ISO) | 1072957-71-1 616-218-00-X | Acute Tox. 3; H301 Acute Tox. 3; H331 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 100 M-Factor (Chronic aquatic toxicity): 100 | >= 10 - < 20 |
| poly(oxy-1,2-ethanediyl), -[2,4,6- tris(1-phenylethyl)phenyl]hydroxy- | 99734-09-5 | Aquatic Chronic 3; H412 | >= 1 - < 2.5 |
| naphthalene | 91-20-3 202-049-5 601-052-00-2 | Flam. Sol. 2; H228 Acute Tox. 4; H302 Carc. 2; H351 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 | >= 0.1 - < 0.25 |
| Substances with a workplace exposure | | Γ | |
| cellulose, ethyl ether | 9004-57-3 | | >= 1 - < 10 |



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| | | | | |
| | | | | |
| For e | explanation of abbrevi | ations see sectio | on 16. | |
| ECTIO | N 4: First aid meas | ures | | |
| .1 Descr | iption of first aid me | asures | | |
| | eral advice | : Have the you whe | e product container, label or en calling the emergency nu r physician, or going for trea | mber, a poison control |
| lf inh | aled | lf breath tion. Keep pa | e victim to fresh air. ing is irregular or stopped, a itient warm and at rest. hysician or poison control ce | |
| In ca | se of skin contact | Wash of If skin iri | all contaminated clothing ir fi immediately with plenty of ritation persists, call a physi potaminated clothing before | water. |
| In ca | se of eye contact | for at lea Remove | nmediately with plenty of wa ast 15 minutes. e contact lenses. ate medical attention is requ | |
| lf swa | allowed | containe Do not ir | wed, seek medical advice ir er or label. nduce vomiting: contains pe c solvents. | |
| .2 Most | important symptoms | s and effects, b | oth acute and delayed | |
| | otoms | | on may cause pulmonary oe | edema and pneumonitis. |
| | , , , | | | <i>.</i> |
| | ition of any immedia | | ntion and special treatmen no specific antidote availab | |
| | | Treat sy Do not ir | mptomatically. nduce vomiting: contains pe | |

| 0 | | |
|------------------------------|---|--|
| Suitable extinguishing media | : | Extinguishing media - small fires Use water spray, alcohol-resistant foam, dry chemical or car- bon dioxide. |
| | | Extinguishing media - large fires |

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| | | | | Alcohol-resistant or Water spray | ioam |
| | nsuita nedia | ble extinguishing | : | | I water stream as it may scatter and spread |
| 5.2 Sp | ecial | hazards arising from | the | substance or mi | xture |
| | pecific ghting | hazards during fire- | : | will produce dens ucts of combustio | ntains combustible organic components, fire e black smoke containing hazardous prod- n (see section 10). mposition products may be a hazard to |
| 5.3 Ad | lvice f | or firefighters | | | |
| S | | protective equipment | : | Wear full protectiv paratus. | ve clothing and self-contained breathing ap- |
| F | urther | information | : | courses. | off from fire fighting to enter drains or water iners exposed to fire with water spray. |
| SECT | | 6: Accidental releas | se n | neasures | |

| 6.1 Personal precautions, protective equipment and emergency procedures | | | | | |
|---|---|--|--|--|--|
| Personal precautions | : | Refer to protective measures listed in sections 7 and 8. | | | |
| 6.2 Environmental precautions Environmental precautions | : | Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities. | | | |

6.3 Methods and material for containment and cleaning up

| Methods for cleaning up | Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Clean contaminated surface thoroughly. Clean with detergents. Avoid solvents. Retain and dispose of contaminated wash water. |
|-------------------------|---|
|-------------------------|---|

6.4 Reference to other sections

For disposal considerations see section 13., Refer to protective measures listed in sections 7 and 8.

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SECTION 7: Handling and storage

| 7.1 Precautions for safe handling | |
|--|---|
| Advice on safe handling : | No special protective measures against fire required. Avoid contact with skin and eyes. When using do not eat, drink or smoke. For personal protection see section 8. |
| 7.2 Conditions for safe storage, inc | cluding any incompatibilities |
| Requirements for storage : areas and containers | No special storage conditions required. Keep containers tight- ly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep away from food, drink and animal feedingstuffs. |
| 7.3 Specific end use(s) | |
| Specific use(s) : | For proper and safe use of this product, please refer to the approval conditions laid down on the product label. |

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

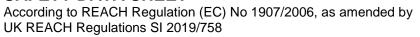
| Components | CAS-No. | Value type (Form of exposure) | Control parameters | Basis |
|--|-------------------|-------------------------------|--------------------|------------|
| hydrocarbons, C10-C13, aromat- ics, <1% naphtha- lene | Not As- signed | TWA | 8 ppm 50 mg/m3 | Supplier |
| benzovindiflupyr (ISO) | 1072957- 71-1 | TWA | 1 mg/m3 | Syngenta |
| cellulose, ethyl ether | 9004-57-3 | TWA | 10 mg/m3 | Supplier |
| naphthalene | 91-20-3 | TWA | 10 ppm 50 mg/m3 | 91/322/EEC |
| Further information: Indicative | | | | |

Biological occupational exposure limits

| Substance name | CAS-No. | Control parameters | Sampling time | Basis |
|----------------|---------|---|---------------|----------------|
| naphthalene | 91-20-3 | 1-hydroxypyrene: 4 µmol/mol creati- nine (Urine) | After shift | GB EH40 BAT |

Derived No Effect Level (DNEL):

| Substance name | End Use | Exposure routes | Potential health ef- fects | Value |
|------------------------|---------|-----------------|-------------------------------|-------------|
| benzovindiflupyr (ISO) | Workers | Inhalation | Long-term systemic effects | 0.478 mg/m3 |
| | Workers | Inhalation | Acute systemic ef- | 1.13 mg/m3 |





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| | | | fects | |
|---|-----------|------------|-------------------------------|--------------|
| | Workers | Dermal | Long-term systemic effects | 3.33 mg/kg |
| | Consumers | Inhalation | Long-term systemic effects | 0.119 mg/m3 |
| | Consumers | Dermal | Long-term systemic effects | 1.67 mg/kg |
| | Consumers | Oral | Long-term systemic effects | 0.049 mg/kg |
| mixture of octanoic acid- decanoic acid- N,N-dimethylamide | Workers | Inhalation | Long-term systemic effects | 166.67 mg/m3 |
| | Workers | Dermal | Long-term systemic effects | 23.81 mg/kg |
| | Consumers | Inhalation | Long-term systemic effects | 50 mg/m3 |
| | Consumers | Dermal | Long-term systemic effects | 14.29 mg/kg |
| | Consumers | Oral | Long-term systemic effects | 14.29 mg/kg |
| poly(oxy-1,2- ethanediyl), alpha- (9Z)-9-octadecenyl- omega-hydroxy- | Workers | Inhalation | Long-term systemic effects | 294 mg/m3 |
| | Workers | Dermal | Long-term systemic effects | 2080 mg/kg |
| | Consumers | Inhalation | Long-term systemic effects | 87 mg/m3 |
| | Consumers | Dermal | Long-term systemic effects | 1250 mg/kg |
| | Consumers | Oral | Long-term systemic effects | 25 mg/kg |
| hydrocarbons, C10- C13, aromatics, <1% naphthalene | Workers | Inhalation | Long-term systemic effects | 151 mg/m3 |
| · | Workers | Dermal | Long-term systemic effects | 12.5 mg/kg |
| | Consumers | Inhalation | Long-term systemic effects | 32 mg/m3 |
| | Consumers | Dermal | Long-term systemic effects | 7.5 mg/kg |
| | Consumers | Oral | Long-term systemic effects | 7.5 mg/kg |
| fatty acids, C8-10, Me esters | Workers | Dermal | Long-term systemic effects | 103.6 mg/kg |
| | Workers | Inhalation | Long-term systemic effects | 73.6 mg/m3 |
| | Consumers | Oral | Long-term systemic effects | 3.7 mg/kg |
| | Consumers | Dermal | Long-term systemic effects | 51.8 mg/kg |
| | Consumers | Inhalation | Long-term systemic | 12.86 mg/m3 |





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| | | | effects | |
|-------------|---------|------------|-------------------------------|------------|
| naphthalene | Workers | Inhalation | Long-term systemic effects | 25 mg/m3 |
| | Workers | Inhalation | Long-term local ef- fects | 25 mg/m3 |
| | Workers | Dermal | Long-term systemic effects | 3.57 mg/kg |

Predicted No Effect Concentration (PNEC):

| Substance name | Environmental Compartment | Value |
|---|---------------------------|---------------|
| benzovindiflupyr (ISO) | Fresh water | 0.000095 mg/l |
| | Secondary poisoning | 2 mg/kg |
| | Soil | 0.041 mg/kg |
| | Marine water | 0.000009 mg/l |
| | Fresh water sediment | 0.053 mg/kg |
| | Sewage treatment plant | 100 mg/l |
| | Marine sediment | 0.005 mg/kg |
| mixture of octanoic acid- decano- ic acid- N,N-dimethylamide | Fresh water | 0.026 mg/l |
| | Marine water | 0.0026 mg/l |
| | Intermittent use/release | 0.077 mg/l |
| | Sewage treatment plant | 2.12 mg/l |
| | Fresh water sediment | 0.318 mg/kg |
| | Marine sediment | 0.0318 mg/kg |
| | Soil | 5.23 mg/kg |
| poly(oxy-1,2-ethanediyl), alpha- (9Z)-9-octadecenyl-omega- hydroxy- | Fresh water | 0.002 mg/l |
| | Marine water | 0.002 mg/l |
| | Sewage treatment plant | 10 mg/l |
| | Fresh water sediment | 86.9 mg/kg |
| | Marine sediment | 86.9 mg/kg |
| | Soil | 1 mg/kg |
| | Freshwater - intermittent | 0.1 mg/l |
| fatty acids, C8-10, Me esters | Fresh water | 0.0011 mg/l |
| | Fresh water sediment | 0.0265 mg/kg |
| | Marine water | 0.00011 mg/l |
| | Marine sediment | 0.00265 mg/kg |
| | Sewage treatment plant | 3.92 mg/l |
| | Soil | 0.00871 mg/kg |
| naphthalene | Fresh water | 0.0024 mg/l |
| | Marine water | 0.0024 mg/l |
| | Sewage treatment plant | 2.9 mg/l |
| | Fresh water sediment | 0.0672 mg/kg |
| | Marine sediment | 0.0672 mg/kg |
| | Soil | 0.0533 mg/kg |

8.2 Exposure controls

Engineering measures

Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated.

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The extent of these protection measures depends on the actual risks in use.

Maintain air concentrations below occupational exposure standards. Where necessary, seek additional occupational hygiene advice.

| Personal protective equipmen | t |
|---|--|
| Eye/face protection | Always wear eye protection when the potential for inadvertent eye contact with the product cannot be excluded. Tightly fitting safety goggles Face-shield |
| Hand protection | |
| Material : Break through time : Glove thickness : | Nitrile rubber > 480 min 0.5 mm |
| Remarks : | Wear protective gloves. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local condi- tions under which the product is used, such as the danger of cuts, abrasion, and the contact time. The break through time depends amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each case. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. |
| Skin and body protection : | |
| Respiratory protection : | When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Suitable respiratory equipment: Respirator with a half face mask The filter class for the respirator must be suitable for the max- imum expected contaminant concentration (gas/vapour/aerosol/particulates) that may arise when han- dling the product. If this concentration is exceeded, self- |
| Protective measures : | contained breathing apparatus must be used. The use of technical measures should always have priority over the use of personal protective equipment. When selecting personal protective equipment, seek appro- priate professional advice. |

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| Appearance Colour Odour Odour Threshold | : : : | clear to slightly turbid amber to light brown No data available No data available |
|---|-------|--|
| рН | : | 4 - 8 Concentration: 1 %w/v |
| Melting point/range | : | No data available |
| Boiling point/boiling range | : | No data available |
| Flash point | : | 101 °C Method: Pensky-Martens closed cup |
| Evaporation rate | : | No data available |
| Flammability (solid, gas) | : | No data available |
| Upper explosion limit / Upper flammability limit | : | No data available |
| Lower explosion limit / Lower flammability limit | : | No data available |
| Vapour pressure | : | No data available |
| Relative vapour density | : | No data available |
| Density | : | 0.978 g/cm3 (25 °C) |
| Solubility(ies) Water solubility Solubility in other solvents | | No data available No data available |
| Partition coefficient: n- octanol/water | : | No data available |
| Auto-ignition temperature | : | 365 °C |
| Decomposition temperature | : | No data available |
| Viscosity Viscosity, dynamic | : | 24.6 mPa.s (40 °C) |
| | | 70.7 mPa.s (20 °C) |
| Viscosity, kinematic | : | >= 22.0 mm2/s (40 °C) |
| Explosive properties | : | Not explosive |
| | | |

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| Ovidiz | ing properties | · The substance | e or mixture is not classified as oxidizing. |
| | information | | e of mixture is not classified as oxidizing. |
| Surfac | ce tension | : 28.0 mN/m, % | 625 °C |
| Partic | le size | : No data availa | ble |

SECTION 10: Stability and reactivity

| 10.1 Reactivity None reasonably foreseeable. | |
|---|---|
| 10.2 Chemical stability Stable under normal conditions | |
| 10.3 Possibility of hazardous read | tions |
| Hazardous reactions | : No dangerous reaction known under conditions of normal use. |
| 10.4 Conditions to avoid | |
| Conditions to avoid | : No decomposition if used as directed. |
| 10.5 Incompatible materials | |
| Materials to avoid | : None known. |
| 10.6 Hazardous decomposition pr | oducts |
| | |

Hazardous decomposition : No hazardous decomposition products are known. products

SECTION 11: Toxicological information

11.1 Information on toxicological effects

| Information on likely routes of exposure | Ingestion Inhalation Skin contact Eye contact |
|--|--|
| Acute toxicity | |
| Product: | |
| Acute oral toxicity | LD50 (Rat, female): 1,086 mg/kg |
| Acute inhalation toxicity | LC50 (Rat, male and female): > 2.54 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance/mixture is not toxic on inhalation as defined by dangerous goods regulations. |



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| | | | | | | |
| Acute | e dermal toxicity | | Rat, male and female): > 2,000 mg/kg ment: The substance or mixture has no acute derma | | | |
| Com | ponents: | | | | | |
| poly(| oxy-1,2-ethanediyl), | alpha-(9Z)-9-c | octadecenyl-omega-hydroxy-: | | | |
| Acute | e oral toxicity | Assess | Rat): 2,760 mg/kg ment: The component/mixture is minimally toxic afte ngestion. | | | |
| benz | ovindiflupyr (ISO): | | | | | |
| Acute | e oral toxicity | : LD50 (I | Rat, female): 55 mg/kg | | | |
| Acute | e inhalation toxicity | Exposi | Rat, male and female): > 0.56 mg/l ure time: 4 h mosphere: dust/mist | | | |
| Acute | e dermal toxicity | | LD50 (Rat, male and female): > 2,000 mg/kg Assessment: The substance or mixture has no acute dermal toxicity | | | |
| | | | ment: The substance or mixture has no acute derma | | | |
| polv(| oxv-1.2-ethanedivl). | toxicity | ment: The substance or mixture has no acute derma | | | |
| | oxy-1,2-ethanediyl), e oral toxicity | toxicity -[2,4,6-tris(1- | ment: The substance or mixture has no acute derma | | | |
| Acute | e oral toxicity | toxicity -[2,4,6-tris(1- | ment: The substance or mixture has no acute derma | | | |
| Acute | | toxicity -[2,4,6-tris(1- : LD50 C : Assess | ement: The substance or mixture has no acute derma phenylethyl)phenyl]hydroxy-: Dral (Rat): 5,000 mg/kg | | | |
| Acute naph Acute | e oral toxicity thalene: | toxicity -[2,4,6-tris(1- : LD50 C : Assess | ment: The substance or mixture has no acute derma phenylethyl)phenyl]hydroxy-: Dral (Rat): 5,000 mg/kg | | | |
| Acute naph Acute | e oral toxicity thalene: e oral toxicity corrosion/irritation | toxicity -[2,4,6-tris(1- : LD50 C : Assess | ment: The substance or mixture has no acute derma phenylethyl)phenyl]hydroxy-: Dral (Rat): 5,000 mg/kg | | | |
| Acute naph Acute Skin <u>Prod</u> Spec | e oral toxicity thalene: e oral toxicity corrosion/irritation uct: ies | toxicity -[2,4,6-tris(1-) : LD50 C : Assess single i : Rabbit | ment: The substance or mixture has no acute derma phenylethyl)phenyl]hydroxy-: Dral (Rat): 5,000 mg/kg ment: The component/mixture is moderately toxic af ngestion. | | | |
| Acute naph Acute Skin <u>Prod</u> | e oral toxicity thalene: e oral toxicity corrosion/irritation uct: ies | toxicity -[2,4,6-tris(1-) : LD50 C : Assess single i : Rabbit | ment: The substance or mixture has no acute derma phenylethyl)phenyl]hydroxy-: Dral (Rat): 5,000 mg/kg | | | |
| Acute naph Acute Skin <u>Prod</u> Spec Resu | e oral toxicity thalene: e oral toxicity corrosion/irritation uct: ies | toxicity -[2,4,6-tris(1-) : LD50 C : Assess single i : Rabbit | ment: The substance or mixture has no acute derma phenylethyl)phenyl]hydroxy-: Dral (Rat): 5,000 mg/kg ment: The component/mixture is moderately toxic af ngestion. | | | |
| Acute naph Acute Skin <u>Prod</u> Spec Resu <u>Com</u> | e oral toxicity thalene: e oral toxicity corrosion/irritation <u>uct:</u> ies It ponents: | toxicity -[2,4,6-tris(1-) : LD50 C : Assess single i : Rabbit : No skir | ment: The substance or mixture has no acute derma phenylethyl)phenyl]hydroxy-: Dral (Rat): 5,000 mg/kg ment: The component/mixture is moderately toxic af ngestion. | | | |
| Acute naph Acute Skin Prod Spec Resu Com Spec | e oral toxicity thalene: e oral toxicity corrosion/irritation uct: ies It ponents: ure of octanoic acid- ies | toxicity -[2,4,6-tris(1-) : LD50 C : Assess single i : Rabbit : No skir decanoic acid : Rabbit | ment: The substance or mixture has no acute derma phenylethyl)phenyl]hydroxy-: Dral (Rat): 5,000 mg/kg ment: The component/mixture is moderately toxic af ngestion. | | | |
| Acute naph Acute Skin Prod Spec Resu <u>Com</u> mixtu | e oral toxicity thalene: e oral toxicity corrosion/irritation uct: ies It ponents: ure of octanoic acid- ies It | toxicity -[2,4,6-tris(1-) : LD50 C : Assess single i : Rabbit : No skir decanoic acid : Rabbit : Irritatin | ment: The substance or mixture has no acute derma phenylethyl)phenyl]hydroxy-: Dral (Rat): 5,000 mg/kg ment: The component/mixture is moderately toxic af ngestion. | | | |
| Acute naph Acute Skin Prod Spec Resu Com mixtu Spec Resu Rema | e oral toxicity thalene: e oral toxicity corrosion/irritation uct: ies It ponents: ure of octanoic acid- ies It arks | toxicity -[2,4,6-tris(1- : LD50 C : Assess single i : Rabbit : No skir decanoic acio : Rabbit : Irritating : Based | ment: The substance or mixture has no acute derma phenylethyl)phenyl]hydroxy-: Dral (Rat): 5,000 mg/kg ment: The component/mixture is moderately toxic af ngestion. h irritation d- N,N-dimethylamide: g to skin. on data from similar materials | | | |
| Acute naph Acute Skin Prod Spec Resu Com mixtu Spec Resu Rema | e oral toxicity thalene: e oral toxicity corrosion/irritation uct: ies It ponents: ure of octanoic acid- ies It arks pocarbons, C10-C13, a | toxicity -[2,4,6-tris(1-) : LD50 C : Assess single i : Rabbit : No skir decanoic acio : Rabbit : Irritating : Based aromatics, <10 | ment: The substance or mixture has no acute derma phenylethyl)phenyl]hydroxy-: Dral (Rat): 5,000 mg/kg ment: The component/mixture is moderately toxic af ngestion. h irritation d- N,N-dimethylamide: g to skin. on data from similar materials | | | |
| Acute naph Acute Skin Prod Spec Resu Spec Resu Resu Resu Resu | e oral toxicity thalene: e oral toxicity corrosion/irritation uct: ies It ponents: ure of octanoic acid- ies It arks pocarbons, C10-C13, a | toxicity -[2,4,6-tris(1-) : LD50 C : Assess single i : Rabbit : No skir decanoic acio : Rabbit : Irritating : Based aromatics, <10 | ment: The substance or mixture has no acute derma phenylethyl)phenyl]hydroxy-: Dral (Rat): 5,000 mg/kg ment: The component/mixture is moderately toxic af ngestion. h irritation d- N,N-dimethylamide: g to skin. on data from similar materials % naphthalene: | | | |



| | Revision Date: 03.10.2023 | - | DS Number: 00059131195 | Date of last issue: 17.08.2023 Date of first issue: 07.11.2019 |
|--|---|---|---|---|
| | 03.10.2023 | 50 | 10029131192 | |
| Result | | | No skin irritatio | ^ |
| Nesul | | • | NO SKIT ITITATIO | 1 |
| Seriou | s eye damage/eye | irritati | on | |
| Produc | | | | |
| Species Result | S | : | Rabbit Irreversible effe | ects on the eve |
| | | | | |
| <u>Compo</u> | | | | |
| | e of octanoic acid- | deca | | imethylamide: |
| Species Result | 5 | : | Rabbit Risk of serious | damage to eyes. |
| Remark | ks | : | Based on data | from similar materials |
| polv(o) | xy-1,2-ethanedivl). | alpha | -(9Z)-9-octadec | enyl-omega-hydroxy-: |
| Species | | | Rabbit | |
| Result | | : | | damage to eyes. |
| benzov | /indiflupyr (ISO): | | | |
| Species | | : | Rabbit | |
| Result | | : | No eye irritation | 1 |
| Respir | atory or skin sensi | tisatio | on | |
| - | | | | |
| Produc | <u>:t:</u> | | | |
| Test Ty | /pe | : | | de assay (LLNA) |
| Test Ty Species | /pe | : | Mouse | |
| Test Ty | /pe | : | Mouse | de assay (LLNA) sitisation by skin contact. |
| Test Ty Species | rpe s | : | Mouse | |
| Test Ty Species Result Compo | vpe s onents: vindiflupyr (ISO): | : | Mouse May cause sen | sitisation by skin contact. |
| Test Ty Species Result Compo benzov Test Ty | /pe s p nents: /indiflupyr (ISO): /pe | ::::::::::::::::::::::::::::::::::::::: | Mouse May cause sen mouse lymphor | sitisation by skin contact. |
| Test Ty Species Result Compo | /pe s p nents: /indiflupyr (ISO): /pe | | Mouse May cause sen mouse lymphon Mouse | sitisation by skin contact. |
| Test Ty Species Result Compo benzov Test Ty Species Result | rpe s onents: vindiflupyr (ISO): γpe s | | Mouse May cause sen mouse lymphon Mouse | sitisation by skin contact. na cells |
| Test Ty Species Result Compo benzov Test Ty Species Result Germ o | ype s onents: vindiflupyr (ISO): ype s cell mutagenicity | | Mouse May cause sen mouse lymphon Mouse | sitisation by skin contact. na cells |
| Test Ty Species Result Compo benzov Test Ty Species Result Germ o Compo | onents: vindiflupyr (ISO): vpe s cell mutagenicity onents: | | Mouse May cause sen mouse lymphon Mouse | sitisation by skin contact. na cells |
| Test Ty Species Result Compo benzov Test Ty Species Result Germ o Compo benzov | onents: vindiflupyr (ISO): vpe s cell mutagenicity onents: vindiflupyr (ISO): | | Mouse May cause sen mouse lymphon Mouse Did not cause s | sitisation by skin contact. na cells |
| Test Ty Species Result Compo benzov Test Ty Species Result Germ o Compo benzov | z <mark>pe</mark> s znents: vindiflupyr (ISO): /pe s cell mutagenicity znents: vindiflupyr (ISO): cell mutagenicity- As | | Mouse May cause sen mouse lymphon Mouse Did not cause s | sitisation by skin contact. na cells sensitisation on laboratory animals. |
| Test Ty Species Result Compo benzov Test Ty Species Result Germ o Compo benzov Germ o sessme poly(o) | pnents: ynets: yindiflupyr (ISO): ype s cell mutagenicity onents: yindiflupyr (ISO): cell mutagenicity- As ent xy-1,2-ethanediyl), | - : -[2,4, | Mouse May cause sen mouse lymphon Mouse Did not cause s Animal testing | sitisation by skin contact. na cells sensitisation on laboratory animals. |

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| Instruction Revision Date: 03.10.2023 SDS Number: S00059131195 Date of list issue: 17.08.2023 Date of first issue: 07.11.2019 Carcinogenicity Components: benzovindiflupyr (ISO): Example of the evidence does not support classification as a car- cinogen, This substance has been reported to cause tumour in certain animal species., There is no evidence that these findings are relevant to humans. naphthalene: Carcinogenicity - Assess- ment Elimited evidence of carcinogenicity in animal studies ment carcinogenicity - Assess- ment Elimited evidence of carcinogenicity in animal studies. Reproductive toxicity Components: benzovindiflupyr (ISO): Reproductive toxicity - As- sessment STOT - single exposure Omponents: mixture of octanoic acid- decanoic acid- N,N-dimethylamide: Assessment : The substance or mixture is not classified as specific target orga toxicant, single exposure, category 3 with respiratory tract irritation. benzovindiflupyr (ISO): Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure. STOT - repeated exposure Components: benzovindiflupyr (ISO): Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure. STOT - repeated exposure : The substance or mixture is not classified as specific target organ toxicant, repeated exposure. Aspiration toxicity : The subst | | | | |
|--|-------------|------------------------|------------------------------|--|
| Components: Weight of evidence does not support classification as a carcinogen, This substance has been reported to cause turnous in certain animal species., There is no evidence that these findings are relevant to humans. naphthalene: Carcinogenicity - Assess- Carcinogenicity - Assess- : Limited evidence of carcinogenicity in animal studies ment callulose, ethyl ether: Carcinogenicity - Assess- Carcinogenicity - Assess- : No evidence of carcinogenicity in animal studies. ment Reproductive toxicity Components: Denzovindiflupyr (ISO): Reproductive toxicity - Assessment : No toxicity to reproduction seasement STOT - single exposure Components: benzovindiflupyr (ISO): : The substance or mixture is classified as specific target orgativitation. Assessment : The substance or mixture is classified as specific target orgativitation. benzovindiflupyr (ISO): : The substance or mixture is not classified as specific target orgativitation. STOT - repeated exposure : The substance or mixture is not classified as specific target organ toxicant, single exposure. STOT - repeated exposure : The substance or mixture is not classified as specific target organ toxicant, single exposure. STOT - repeated exposure : The substance or mixture is not classified as specific target organ toxicant, repeated exposure. | sion | Revision Date: | | |
| benzovindiflupyr (ISO): Weight of evidence does not support classification as a carcinogen, This substance has been reported to cause turnoun in certain animal species., There is no evidence that these findings are relevant to humans. naphthalene: Carcinogenicity - Assess- indings are relevant to humans. carcinogenicity - Assess- indings are relevant to humans. Imited evidence of carcinogenicity in animal studies indings are relevant to humans. naphthalene: Carcinogenicity - Assess- indings are relevant to humans. cellulose, ethyl ether: Carcinogenicity - Assess- indings are relevant to humans. Carcinogenicity - Assess- indings are relevant to humans. No evidence of carcinogenicity in animal studies. Reproductive toxicity Carcinogenicity in animal studies. Camponents: No evidence of carcinogenicity in animal studies. Benzovindiflupyr (ISO): No toxicity to reproduction STOT - single exposure No toxicity to reproduction Components: imixture of octanoic acid- decanoic acid- NN-dimethylamide: Assessment : The substance or mixture is classified as specific target organ toxicant, single exposure. STOT - repeated exposure Components: benzovindiflupyr (ISO): Assessment Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure. | Carcir | nogenicity | | |
| benzovindiflupyr (ISO): Weight of evidence does not support classification as a carcinogen, This substance has been reported to cause turnoun in certain animal species., There is no evidence that these findings are relevant to humans. naphthalene: Carcinogenicity - Assess- indings are relevant to humans. carcinogenicity - Assess- indings are relevant to humans. Imited evidence of carcinogenicity in animal studies indings are relevant to humans. naphthalene: Carcinogenicity - Assess- indings are relevant to humans. cellulose, ethyl ether: Carcinogenicity - Assess- indings are relevant to humans. Carcinogenicity - Assess- indings are relevant to humans. No evidence of carcinogenicity in animal studies. Reproductive toxicity Carcinogenicity in animal studies. Camponents: No evidence of carcinogenicity in animal studies. Benzovindiflupyr (ISO): No toxicity to reproduction STOT - single exposure No toxicity to reproduction Components: imixture of octanoic acid- decanoic acid- NN-dimethylamide: Assessment : The substance or mixture is classified as specific target organ toxicant, single exposure. STOT - repeated exposure Components: benzovindiflupyr (ISO): Assessment Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure. | Comp | onents: | | |
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| Carcinogenicity - Assessment : No evidence of carcinogenicity in animal studies. Reproductive toxicity | Carcin | | : Limited evide | nce of carcinogenicity in animal studies |
| Components: benzovindiflupyr (ISO): Reproductive toxicity - As- : No toxicity to reproduction sessment STOT - single exposure Components: mixture of octanoic acid- decanoic acid- N,N-dimethylamide: Assessment Assessment : The substance or mixture is classified as specific target orgation, single exposure, category 3 with respiratory tractiritation. benzovindiflupyr (ISO): Assessment : STOT - repeated exposure Components: benzovindiflupyr (ISO): Assessment : : The substance or mixture is not classified as specific target orgation toxicant, single exposure. STOT - repeated exposure : Components: : benzovindiflupyr (ISO): : Assessment : : The substance or mixture is not classified as specific target orgation toxicant, single exposure. Stot - repeated exposure : : : Assessment : : : : : : : : : | Carcin | • | : No evidence | of carcinogenicity in animal studies. |
| benzovindiflupyr (ISO): Reproductive toxicity - As-sessment : No toxicity to reproduction STOT - single exposure Components: : The substance or mixture is classified as specific target orgation irritation. benzovindiflupyr (ISO): : The substance or mixture is not classified as specific target orgation toxicant, single exposure. STOT - repeated exposure : The substance or mixture is not classified as specific target orgation toxicant, single exposure. STOT - repeated exposure : The substance or mixture is not classified as specific target organ toxicant, single exposure. STOT - repeated exposure : The substance or mixture is not classified as specific target organ toxicant, single exposure. STOT - repeated exposure : The substance or mixture is not classified as specific target organ toxicant, single exposure. STOT - repeated exposure : The substance or mixture is not classified as specific target organ toxicant, single exposure. Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure. Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure. | Repro | ductive toxicity | | |
| Reproductive toxicity - As- : No toxicity to reproduction sessment STOT - single exposure Components: | Comp | onents: | | |
| Components: mixture of octanoic acid- decanoic acid- N,N-dimethylamide: Assessment : The substance or mixture is classified as specific target orgativitation. benzovindiflupyr (ISO): : The substance or mixture is not classified as specific target organ toxicant, single exposure. STOT - repeated exposure : The substance or mixture is not classified as specific target organ toxicant, single exposure. STOT - repeated exposure : The substance or mixture is not classified as specific target organ toxicant, single exposure. Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure. Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure. Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure. Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure. | Repro | ductive toxicity - As- | : No toxicity to | reproduction |
| mixture of octanoic acid- decanoic acid- N,N-dimethylamide: Assessment : The substance or mixture is classified as specific target orgation: benzovindiflupyr (ISO): : The substance or mixture is not classified as specific target organ toxicant, single exposure. STOT - repeated exposure : The substance or mixture is not classified as specific target organ toxicant, single exposure. STOT - repeated exposure : The substance or mixture is not classified as specific target organ toxicant, single exposure. Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure. Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure. Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure. Aspiration toxicity : The substance or mixture is not classified as specific target organ toxicant, repeated exposure. | STOT | - single exposure | | |
| Assessment:The substance or mixture is classified as specific target orgation toxicant, single exposure, category 3 with respiratory tractirritation.benzovindiflupyr (ISO)::The substance or mixture is not classified as specific target organ toxicant, single exposure.STOT - repeated exposure:The substance or mixture is not classified as specific target organ toxicant, single exposure.STOT - repeated exposure::Denzovindiflupyr (ISO):::Assessment::Denzovindiflupyr (ISO):::Assessment::Components::Denzovindiflupyr (ISO):::Assessment::Components::Denzovindiflupyr (ISO)::Assessment:Components::Denzovindiflupyr (ISO)::Assessment:Denzovindiflupyr (ISO)::Assessment:Denzovindiflupyr (ISO)::Denzovindiflupyr (ISO):: <t< td=""><td>Comp</td><td>onents:</td><td></td><td></td></t<> | Comp | onents: | | |
| toxicant, single exposure, category 3 with respiratory tract irritation.benzovindiflupyr (ISO): Assessment:The substance or mixture is not classified as specific target organ toxicant, single exposure.STOT - repeated exposure:The substance or mixture is not classified as specific target organ toxicant, single exposure.STOT - repeated exposure::benzovindiflupyr (ISO): Assessment::benzovindiflupyr (ISO): Assessment::Aspiration toxicity:: | mixtu | re of octanoic acid- d | ecanoic acid- N,N | -dimethylamide: |
| Assessment:The substance or mixture is not classified as specific target organ toxicant, single exposure.STOT - repeated exposure.Components:.benzovindiflupyr (ISO):.Assessment:The substance or mixture is not classified as specific target organ toxicant, repeated exposure.Aspiration toxicity. | Asses | sment | toxicant, sing | |
| Assessment:The substance or mixture is not classified as specific target organ toxicant, single exposure.STOT - repeated exposure.Components:.benzovindiflupyr (ISO):.Assessment:The substance or mixture is not classified as specific target organ toxicant, repeated exposure.Aspiration toxicity. | benzo | vindiflupyr (ISO): | | |
| Components: benzovindiflupyr (ISO): Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure. Aspiration toxicity | | | | |
| benzovindiflupyr (ISO): Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure. Aspiration toxicity | stot | - repeated exposure | | |
| Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure. Aspiration toxicity : Aspiration toxicity | <u>Comp</u> | onents: | | |
| | | | | |
| | Aspira | ation toxicity | | |
| | - | - | | |

May be fatal if swallowed and enters airways.

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APROVIA PLUS

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SECTION 12: Ecological information

12.1 Toxicity

| Toxicity to fish | : | LC50 (Oncorhynchus mykiss (rainbow trout)): 0.068 mg/l Exposure time: 96 h |
|---|---|--|
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): 0.27 mg/l Exposure time: 48 h |
| Toxicity to algae/aquatic : plants | | ErC50 (Raphidocelis subcapitata (freshwater green alga)): 2.7 mg/l Exposure time: 72 h |
| | | NOEC (Raphidocelis subcapitata (freshwater green alga)): 0.46 mg/l End point: Growth rate Exposure time: 72 h |
| | | EC10 (Raphidocelis subcapitata (freshwater green alga)): 1.4 mg/l End point: Growth rate Exposure time: 72 h |

Components:

mixture of octanoic acid- decanoic acid- N,N-dimethylamide:

| Toxicity to fish | : | LC50 (Danio rerio (zebra fish)): 14.8 mg/l Exposure time: 96 h Remarks: Based on data from similar materials | | |
|---|---|---|--|--|
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): 7.7 mg/l Exposure time: 48 h Remarks: Based on data from similar materials | | |
| Toxicity to algae/aquatic plants | : | ErC50 (Raphidocelis subcapitata (freshwater green alga)): 16.06 mg/l Exposure time: 72 h Remarks: Based on data from similar materials | | |
| Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity) | : | EC10: 1.3 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Remarks: Based on data from similar materials | | |
| hydrocarbons C10-C13 aromatics <1% nanbthalene: | | | | |

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

| Toxicity to fish | : | LL50 (Oncorhynchus mykiss (rainbow trout)): 3.6 mg/l |
|------------------|---|--|
| | | Exposure time: 96 h |



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|---------------|--------------------|---------------------------------------|---|---|---|
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| | | | | | |
| | | | | Remarks: Informa similar substance | ation given is based on data obtained from s. |
| | | to daphnia and other invertebrates | : | Exposure time: 48 | ation given is based on data obtained from |
| | Toxicity plants | r to algae/aquatic | : | mg/l End point: Growth Exposure time: 72 | 2 h ation given is based on data obtained from |
| | | | | 0.22 mg/l End point: Growth Exposure time: 72 | 2 h ation given is based on data obtained from |
| | Ecotox | icology Assessment | | | |
| | | aquatic toxicity | : | Toxic to aquatic li | fe with long lasting effects. |
| | benzov | vindiflupyr (ISO): | | | |
| | Toxicity | | : | LC50 (Oncorhync Exposure time: 96 | hus mykiss (rainbow trout)): 0.0091 mg/l ን h |
| | | | | LC50 (Cyprinus c Exposure time: 96 | arpio (Carp)): 0.0035 mg/l 5 h |
| | | to daphnia and other invertebrates | : | EC50 (Americam) Exposure time: 96 | |
| | Toxicity plants | to algae/aquatic | : | ErC50 (Raphidoc 0.89 mg/l Exposure time: 96 | elis subcapitata (freshwater green alga)): > 5 h |
| | | | | NOEC (Raphidoc 0.42 mg/l End point: Growth Exposure time: 96 | |
| | | | | ErC50 (Skeletone Exposure time: 72 | ema costatum (marine diatom)): 0.55 mg/l 2 h |
| | | | | NOEC (Skeletone End point: Growth Exposure time: 72 | |
| ſ | M-Facto | or (Acute aquatic tox- | : | 100 | |



| | sion | A PLUS Revision Date: 03.10.2023 | | 0S Number: 0059131195 | Date of last issue: 17.08.2023 Date of first issue: 07.11.2019 |
|------|-----------------------------|--|------------|--|---|
| | | | | | |
| | icity) | | | | |
| | Toxicity | to microorganisms | : | EC50 (activated s Exposure time: 3 | ludge): > 1,000 mg/l h |
| | Toxicity icity) | to fish (Chronic tox- | : | NOEC: 0.00095 n Exposure time: 32 Species: Pimepha Test Type: Early-l | 2 d ales promelas (fathead minnow) |
| | | to daphnia and other invertebrates (Chron- ty) | : | NOEC: 0.0074 m Exposure time: 28 Species: America | 3 d |
| | | | | EC10: 0.012 mg/l Exposure time: 2' Species: Daphnia | |
| | M-Factor toxicity) | or (Chronic aquatic | : | 100 | |
| | poly(o) Toxicity | | 2,4,0 : | | yl)phenyl]hydroxy-: (zebra fish)): 21 mg/l S h |
| | | icology Assessment aquatic toxicity | | Harmful to aquation | c life with long lasting effects. |
| | naphth | alene: | | | |
| | | icology Assessment | : | Very toxic to aqua | atic life. |
| | Chronic | aquatic toxicity | : | Very toxic to aqua | atic life with long lasting effects. |
| 12.2 | 2 Persist | ence and degradabil | ity | | |
| | Compo | - | | | |
| | mixture | e of octanoic acid- de | car | oic acid- N N-dim | ethylamide: |
| | | radability | : | Result: Readily bi | • |
| | • | arbons, C10-C13, arc radability | oma : | t ics, <1% naphtha Result: Readily bi | |
| | | rindiflupyr (ISO): radability | : | Result: Not readil | y biodegradable. |

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|---|--|

12.3 Bioaccumulative potential

| | • | | | |
|----------------------------|---|-----|---|--|
| | Components: | | | |
| | benzovindiflupyr (ISO): | | | |
| | Bioaccumulation | : | Remarks: Does not bioaccumulate. | |
| | Partition coefficient: n- octanol/water | : | log Pow: 4.3 (25 °C) | |
| 12.4 | Mobility in soil | | | |
| | Components: | | | |
| | benzovindiflupyr (ISO): | | | |
| | Distribution among environ- mental compartments | : | Remarks: Slightly mobile in soils | |
| 12.5 | Results of PBT and vPvB as | ses | ssment | |
| | 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: | | | |
| | benzovindiflupyr (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). | |
| | poly(oxy-1,2-ethanediyl), -[2,4,6-tris(1-phenylethyl)phenyl]hydroxy-: | | 6-tris(1-phenylethyl)phenyl]hydroxy-: | |
| | 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). | |
| | 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 Other adverse effects | | | | |
| | Product: | | | |
| | Endocrine disrupting poten- tial | : | The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. | |

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SECTION 13: Disposal considerations

| 13.1 Waste treatment methods | |
|------------------------------|---|
| Product | Do not contaminate ponds, waterways or ditches with chemical or used container. Do not dispose of waste into sewer. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. |
| Contaminated packaging | Empty remaining contents. Triple rinse containers. Empty containers should be taken to an approved waste han- dling site for recycling or disposal. Do not re-use empty containers. |

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 | | | | |
| ADR | : | ENVIRONMENTALL' N.O.S. (BENZOVINDIFLUP) | Y HAZARDOUS SUBSTANCE, LIQUID, YR) | |
| RID | : | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BENZOVINDIFLUPYR) | | |
| IMDG | : | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BENZOVINDIFLUPYR) | | |
| ΙΑΤΑ | : | Environmentally haza (BENZOVINDIFLUP) | ardous substance, liquid, n.o.s. YR) | |
| 14.3 Transport hazard class(es) | | | | |
| | | Class | Subsidiary risks | |
| ADR | : | 9 | | |
| RID | : | 9 | | |
| IMDG | : | 9 | | |
| ΙΑΤΑ | : | 9 | | |

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



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14.4 Packing group

| ADR Packing group Classification Code Hazard Identification Number Labels Tunnel restriction code Remarks | III M6 90 9 (-) This product can be subject to exemptions when packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids, or having a net mass of 5 kg or less for solids. |
|---|--|
| RID Packing group Classification Code Hazard Identification Number Labels Remarks | III M6 90 9 This product can be subject to exemptions when packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids, or having a net mass of 5 kg or less for solids. |
| IMDG Packing group Labels EmS Code Remarks | III 9 F-A, S-F This product can be subject to exemptions when packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids, or having a net mass of 5 kg or less for solids. |
| IATA (Cargo) Packing instruction (cargo aircraft) Packing instruction (LQ) Packing group Labels Remarks | 964 Y964 III Miscellaneous This product can be subject to exemptions when packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids, or having a net mass of 5 kg or less for solids. |
| IATA (Passenger) Packing instruction (passen- ger aircraft) Packing instruction (LQ) Packing group Labels Remarks | 964 Y964 III Miscellaneous This product can be subject to exemptions when packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids, or having a net mass of 5 kg or less for solids. |

14.5 Environmental hazards

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| | | | | |

ADR

| Environmentally hazardous | : | yes |
|---|---|-----|
| RID Environmentally hazardous | : | yes |
| IMDG Marine pollutant | : | yes |
| IATA (Passenger) Environmentally hazardous | : | yes |
| IATA (Cargo) Environmentally hazardous | : | yes |

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 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 List of restrictions (Annex 17) | : | Conditions of restriction for the fol- lowing entries should be considered: Number on list 3 |
|---|----|--|
| 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 Britain) | : | naphthalene |
| Regulation (EC) No 1005/2009 on substances that deplete the ozone layer | : | Not applicable |
| UK REACH List of substances subject to authorisation (Annex XIV) | : | Not applicable |
| GB Export and import of hazardous chemicals - Prior Informed Consent (PIC) Regulation | : | Not applicable |
| Control of Major Accident Hazards Regulations E1 2015 (COMAH) | EN | VIRONMENTAL HAZARDS |

Other regulations:

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to new and expectant mothers at work contained in Regulation 16 to 18) and of the Pregnant Workers Directive 92/85/EEC.

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to protection of young people at work contained in Regulation 19) and of Directive

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94/33/EC on the protection of young people at work.

15.2 Chemical safety assessment

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

SECTION 16: Other information

Full text of H-Statements

| H228 H301 H302 H304 H315 H318 H331 H335 H351 H400 H410 H411 H412 | | Flammable solid. Toxic if swallowed. Harmful if swallowed. May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye damage. Toxic if inhaled. May cause respiratory irritation. Suspected of causing cancer. Very toxic to aquatic life. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. Toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects. |
|--|----|---|
| Full text of other abbreviation | | |
| Acute Tox. Aquatic Acute Aquatic Chronic Asp. Tox. Carc. Eye Dam. Flam. Sol. Skin Irrit. STOT SE 91/322/EEC | | Acute toxicity Short-term (acute) aquatic hazard Long-term (chronic) aquatic hazard Aspiration hazard Carcinogenicity Serious eye damage Flammable solids Skin irritation Specific target organ toxicity - single exposure Europe. Commission Directive 91/322/EEC on establishing indicative limit values |
| GB EH40 BAT Syngenta 91/322/EEC / TWA Syngenta / TWA | :: | UK. Biological monitoring guidance values Syngenta Occupational Exposure Limit Limit Value - eight hours Time weighted average |

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - 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 - Interna-

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tional Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI -Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

| Further information | | | | |
|-------------------------|----------|-------------------------------------|--|--|
| Classification of the m | nixture: | Classification procedure: | | |
| Acute Tox. 4 | H302 | Based on product data or assessment | | |
| Acute Tox. 4 | H332 | Based on product data or assessment | | |
| Eye Dam. 1 | H318 | Based on product data or assessment | | |
| Skin Sens. 1 | H317 | Based on product data or assessment | | |
| STOT SE 3 | H335 | Calculation method | | |
| Aquatic Acute 1 | H400 | Based on product data or assessment | | |
| Aquatic Chronic 1 | H410 | Calculation method | | |
| | | | | |

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

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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