

Sulfapyridine Formulation

| Versi 4.1 | ion | Revision Date: 28.09.2024 | | DS Number: 24964-00011 | Date of last issue: 06.04.2024 Date of first issue: 09.04.2020 | | | | |
|--------------|---|--|-------|--|---|--|--|--|--|
| SEC | SECTION 1: Identification of the substance/mixture and of the company/undertaking | | | | | | | | |
| | 1.1 Product identifier | | | | | | | | |
| | Trade r | name | : | Sulfapyridine For | mulation | | | | |
| 1.2 R | Relevan | nt identified uses of t | he s | substance or mixt | ure and uses advised against | | | | |
| | | the Sub- /Mixture | : | Pharmaceutical | | | | | |
| | Recom on use | mended restrictions | : | Not applicable | | | | | |
| 1.3 D | Details | of the supplier of the | e saf | ety data sheet | | | | | |
| | Compa | ny | : | MSD 20 Spartan Road 1619 Spartan, So | outh Africa | | | | |
| | Telepho | one | : | +27119239300 | | | | | |
| | | address of person sible for the SDS | : | EHSDATASTEW. | ARD@msd.com | | | | |

1.4 Emergency telephone number

+1-908-423-6000

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Acute toxicity, Category 3 Skin sensitisation, Category 1 Reproductive toxicity, Category 1A Specific target organ toxicity - single exposure, Category 1 Long-term (chronic) aquatic hazard, Category 3 H301: Toxic if swallowed.

H317: May cause an allergic skin reaction.

H360F: May damage fertility.

H370: Causes damage to organs.

H412: Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

1

Hazard pictograms



Signal word

Hazard statements :



| Version 4.1 | Revision Date: 28.09.2024 | SDS Number: 5624964-00011 | Date of last issue: 06.04.2024 Date of first issue: 09.04.2020 |
|----------------|---------------------------|--|---|
| | | H360F May dama H370 Causes da | e an allergic skin reaction. age fertility. amage to organs. aquatic life with long lasting effects. |
| Precau | itionary statements | P273 Avoid rele | ecial instructions before use. ase to the environment. ective gloves/ protective clothing/ eye protec- on. |
| | | POISON CENTEF P308 + P311 IF CENTER/ doctor. | 30 IF SWALLOWED: Immediately call a / doctor. Rinse mouth. exposed or concerned: Call a POISON skin irritation or rash occurs: Get medical |

Hazardous components which must be listed on the label:

Sulfapyridine Benzyl cinnamate

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.

Dust contact with the eyes can lead to mechanical irritation.

Contact with dust can cause mechanical irritation or drying of the skin.

May form combustible dust concentrations in air during processing, handling or other means.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

| Chemical name | CAS-No. EC-No. Index-No. Registration number | Classification | Concentration (% w/w) |
|-----------------|---|--|--------------------------|
| Sulfapyridine | 144-83-2 205-642-7 | Acute Tox. 2; H300 Skin Sens. 1; H317 Repr. 1A; H360F STOT SE 1; H370 Aquatic Chronic 2; H411 | >= 10 - < 20 |
| Benzyl benzoate | 120-51-4 204-402-9 607-085-00-9 | Acute Tox. 4; H302 Aquatic Acute 1; H400 Aquatic Chronic 2; H411 M-Factor (Acute | >= 0,25 - < 1 |



| Version | Revision Date: 28.09.2024 | SDS Number: | Date of last issue: 06.04.2024 |
|---------|---------------------------|-----------------------|--|
| 4.1 | | 5624964-00011 | Date of first issue: 09.04.2020 |
| Benz | yl cinnamate | 103-41-3 203-109-3 | aquatic toxicity): 1Skin Sens. 1B; H317 Aquatic Acute 1; H400 |

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

| General advice | : | In the case of accident or if you feel unwell, seek medical ad- vice immediately. When symptoms persist or in all cases of doubt seek medical advice. |
|-----------------------------|-------|--|
| Protection of first-aiders | : | First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8). |
| If inhaled | : | If inhaled, remove to fresh air. Get medical attention. |
| In case of skin contact | : | In case of contact, immediately flush skin with soap and plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse. |
| In case of eye contact | : | If in eyes, rinse well with water. Get medical attention if irritation develops and persists. |
| If swallowed | : | If swallowed, DO NOT induce vomiting. Call a physician or poison control centre immediately. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. |
| 4.2 Most important symptoms | and e | ffects, both acute and delayed |
| Risks | : | Toxic if swallowed. May cause an allergic skin reaction. May damage fertility. Causes damage to organs. |
| | | Contact with dust can cause mechanical irritation or drying of the skin. Dust contact with the eyes can lead to mechanical irritation. |



Sulfapyridine Formulation

| Versio 4.1 | | evision Date: 3.09.2024 | | 9S Number: 24964-00011 | Date of last issue: 06.04.2024 Date of first issue: 09.04.2020 | | | |
|---------------|---|----------------------------|------|---|--|--|--|--|
| | 4.3 Indication of any immediate medical attention and special treatment needed Treatment : Treat symptomatically and supportively. | | | | | | | |
| SEC | TION 5: F | Firefighting meas | sur | es | | | | |
| 5.1 E | xtinguish | ing media | | | | | | |
| S | Suitable ex | xtinguishing media | : | Water spray Alcohol-resistant Carbon dioxide (C Dry chemical | | | | |
| | Unsuitable media | extinguishing | : | None known. | | | | |
| 5.2 S | pecial ha | zards arising from | the | substance or mi | xture | | | |
| | Specific ha fighting | azards during fire- | : | Exposure to comb | pustion products may be a hazard to health. | | | |
| | Hazardous ucts | s combustion prod- | : | Carbon oxides | | | | |
| 5.3 A | dvice for | firefighters | | | | | | |
| 5 | | otective equipment | : | | e, wear self-contained breathing apparatus. rective equipment. | | | |
| | Specific ex ods | tinguishing meth- | : | cumstances and t Use water spray t | measures that are appropriate to local cir- he surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do | | | |
| SEC | TION 6: A | Accidental releas | se n | neasures | | | | |
| 6.1 P | ersonal n | recautions protec | tive | equipment and e | emergency procedures | | | |
| | - | precautions | : | Use personal prot Follow safe handl | rective equipment. ing advice (see section 7) and personal pro- recommendations (see section 8). | | | |
| 6.2 E | nvironme | ental precautions | | | | | | |
| _ | | | | | | | | |

Environmental precautions : Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Sweep up or vacuum up spillage and collect in suitable container for disposal.



| Version | Revision Date: 28.09.2024 | SDS Number: | Date of last issue: 06.04.2024 |
|---------|---------------------------|---|---|
| 4.1 | | 5624964-00011 | Date of first issue: 09.04.2020 |
| | | with compress Dust deposits a es, as these m leased into the Local or nation posal of this m employed in th mine which reg Sections 13 an | I of dust in the air (i.e., clearing dust surfaces ed air). should not be allowed to accumulate on surfac- ay form an explosive mixture if they are re- atmosphere in sufficient concentration. al regulations may apply to releases and dis- aterial, as well as those materials and items e cleanup of releases. You will need to deter- gulations are applicable. Id 15 of this SDS provide information regarding national requirements. |

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

| 7.1 Precautions for safe handling | |
|--|--|
| Technical measures : | Static electricity may accumulate and ignite suspended dust causing an explosion. Provide adequate precautions, such as electrical grounding |
| Local/Total ventilation : | and bonding, or inert atmospheres. If sufficient ventilation is unavailable, use with local exhaust ventilation. |
| Advice on safe handling : | Do not get on skin or clothing. Do not breathe dust, fume, gas, mist, vapours or spray. Do not swallow. Avoid contact with eyes. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure as- sessment Keep container tightly closed. Minimize dust generation and accumulation. Keep container closed when not in use. Keep away from heat and sources of ignition. Take precautionary measures against static discharges. Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to the |
| Hygiene measures : 7.2 Conditions for safe storage, inc | environment. If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before re-use. The effective operation of a facility should include review of engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the use of administrative controls. |
| 1.2 Conditions for safe storage, Inc | lucing any incompatibilities |

Requirements for storage
areas and containers:Keep in properly labelled containers. Store locked up. Keep
tightly closed. Store in accordance with the particular national



| Version 4.1 | Revision Date: 28.09.2024 | | Number: 964-00011 | Date of last issue: 06.04.2024 Date of first issue: 09.04.2020 |
|----------------|---------------------------|-------------|----------------------|---|
| | | r | egulations. | |
| Advic | e on common storage | S C E | Strong oxidizing | bstances and mixtures |
| 7.3 Specif | ic end use(s) | | | |
| Speci | fic use(s) | : N | lo data availab | le |

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

| Components | CAS-No. | Value type (Form of exposure) | Control parameters | Basis |
|---------------|----------------|-------------------------------|--------------------|----------|
| Sulfapyridine | 144-83-2 | TWA | 0.25 mg/m3 (OEB 2) | Internal |
| | Further inform | nation: DSEN | | |
| | | Wipe limit | 0.1 mg/100 cm2 | Internal |

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

| | · · | • • | · · / | |
|-----------------|-----------|-----------------|-------------------------------|----------------------|
| Substance name | End Use | Exposure routes | Potential health ef- fects | Value |
| Benzyl benzoate | Workers | Inhalation | Long-term systemic effects | 14,1 mg/m3 |
| | Workers | Inhalation | Acute systemic ef- fects | 70,5 mg/m3 |
| | Workers | Skin contact | Long-term systemic effects | 4 mg/kg bw/day |
| | Consumers | Inhalation | Long-term systemic effects | 2,48 mg/m3 |
| | Consumers | Inhalation | Acute systemic ef- fects | 12,4 mg/m3 |
| | Consumers | Skin contact | Long-term systemic effects | 1,42 mg/kg bw/day |
| | Consumers | Ingestion | Long-term systemic effects | 1,42 mg/kg bw/day |

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

| Substance name | Environmental Compartment | Value |
|-----------------|----------------------------|----------------------------------|
| Petrolatum | Oral (Secondary Poisoning) | 9,33 mg/kg food |
| Benzyl benzoate | Fresh water | 0,003 mg/l |
| | Marine water | 0,322 µg/l |
| | Sewage treatment plant | 100 mg/l |
| | Fresh water sediment | 2,043 mg/kg dry weight (d.w.) |
| | Marine sediment | 0,204 mg/kg dry weight (d.w.) |



| Version 4.1 | Revision Date: 28.09.2024 | SDS Number: 5624964-00011 | Date of last issue: 06.04.2024 Date of first issue: 09.04.2020 | |
|----------------|---------------------------|------------------------------|---|--|
| | | Soil | 0,406 mg/kg weight (d.w.) | |

8.2 Exposure controls

Engineering measures

Use feasible engineering controls to minimize exposure to compound. All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment.

| Personal protective equipment | | | | | | | |
|-------------------------------|---|---|--|--|--|--|--|
| Eye/face protection | | Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols. | | | | | |
| Hand protection | | | | | | | |
| Material | : | Chemical-resistant gloves | | | | | |
| Skin and body protection | : | Work uniform or laboratory coat. | | | | | |
| Respiratory protection | : | If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. | | | | | |
| Filter type | : | Combined particulates and organic vapour type (A-P) | | | | | |

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| Appearance Colour Odour Odour Threshold | : | solid No data available No data available No data available |
|---|---|--|
| рН | : | No data available |
| Melting point/freezing point | : | No data available |
| Initial boiling point and boiling | : | No data available |
| range Flash point | : | Not applicable |
| Evaporation rate | : | Not applicable |
| Flammability (solid, gas) | : | May form combustible dust concentrations in air during pro- cessing, handling or other means. |
| Upper explosion limit / Upper flammability limit | : | No data available |
| Lower explosion limit / Lower flammability limit | : | No data available |
| Vapour pressure | : | Not applicable |



Sulfapyridine Formulation

| Ver 4.1 | sion | Revision Date: 28.09.2024 | | S Number: 24964-00011 | Date of last issue: 06.04.2024 Date of first issue: 09.04.2020 |
|-----------------------|--|--|-------------------|---|---|
| | Relativ | e vapour density | : | Not applicable | |
| | Relative density | | : | No data available | 9 |
| | Density | / | : | No data available | 9 |
| | Partitio octano Auto-ig Decom Viscosi Visco Explos | ter solubility n coefficient: n- l/water nition temperature position temperature | :: | No data available Not applicable No data available No data available Not applicable Not explosive The substance o | 9 |
| 9.2 Other information | | | No data available | _ | |
| | | ability (liquids) | : | No data available | |
| | Particle | ılar weight ə size | : | No data available | |
| | | | | | |

SECTION 10: Stability and reactivity

10.1 Reactivity

Not classified as a reactivity hazard.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

| Hazardous reactions | : May form combustible dust concentrations in air during pro- cessing, handling or other means. Can react with strong oxidizing agents. |
|--------------------------|---|
| 10.4 Conditions to avoid | |
| Conditions to avoid | : Heat, flames and sparks. |

Conditions to avoid

Heat, flames and sparks. Avoid dust formation.

10.5 Incompatible materials

Materials to avoid : Oxidizing agents

10.6 Hazardous decomposition products

No hazardous decomposition products are known.



| ersion .1 | Revision Date: 28.09.2024 | SDS Number: 5624964-00011 | | Date of last issue: 06.04.2024 Date of first issue: 09.04.2020 |
|-----------------------------|---------------------------------|------------------------------|--|--|
| ECTION | N 11: Toxicological | infor | mation | |
| 1.1 Infor | mation on toxicologi | cal ef | fects | |
| Inforr expos | nation on likely routes sure | of : | Inhalation Skin contact Ingestion Eye contact | |
| Acut | e toxicity | | | |
| Toxic | if swallowed. | | | |
| Prod | uct: | | | |
| Acute | e oral toxicity | : | Acute toxicity e Method: Calcula | stimate: 158 mg/kg ation method |
| Com | ponents: | | | |
| Sulfa | pyridine: | | | |
| Acute | e oral toxicity | : | LD50 (Rat): 15, | 8 mg/kg |
| Benz | yl benzoate: | | | |
| Acute | e oral toxicity | : | Method: Expert | stimate: 500 mg/kg judgement d on national or regional regulation. |
| Acute | e dermal toxicity | : | LD50 (Rabbit): | > 2.000 mg/kg |
| Benz | yl cinnamate: | | | |
| Acute | e oral toxicity | : | LD50 (Rat): 2.6 Remarks: Base | 10 mg/kg d on data from similar materials |
| Acute | e dermal toxicity | : | LD50 (Rabbit): Remarks: Base | > 5.000 mg/kg d on data from similar materials |
| Skin | corrosion/irritation | | | |
| Not c | lassified based on ava | ilable | information. | |
| Com | ponents: | | | |
| Benz | yl benzoate: | | | |
| Species Method Result | | : | Rabbit OECD Test Gui No skin irritatior | |
| Benz | yl cinnamate: | | | |
| Spec | - | : | Rabbit | |
| Result Remarks | | : | No skin irritation Based on data | n from similar materials |



| sion Revision Date: 28.09.2024 | | SDS Number 5624964-000 | |
|-----------------------------------|-----------------------|----------------------------|---|
| Serio | us eye damage/eye | irritation | |
| Not cl | assified based on av | ailable information | ۱. |
| Comp | oonents: | | |
| Benzy | yl benzoate: | | |
| Speci | | : Rabbit | |
| Resul | | : No eye in | itation |
| Benzy | yl cinnamate: | | |
| Speci | es | : Rabbit | |
| Resul | | : No eye ir | |
| Rema | irks | : Based on | data from similar materials |
| Respi | iratory or skin sens | tisation | |
| _ | sensitisation | | |
| May c | ause an allergic skin | reaction. | |
| Respi | iratory sensitisation | | |
| Not cl | assified based on av | ailable information | ۱. |
| <u>Comp</u> | oonents: | | |
| Sulfa | pyridine: | | |
| Asses | sment | : May caus | e sensitisation by skin contact. |
| Benzy | yl benzoate: | | |
| Test T | Гуре | | ph node assay (LLNA) |
| | sure routes | : Skin cont | act |
| Speci | | : Mouse | at Cuideline 100 |
| Metho Resul | | : DECD Te | st Guideline 429 |
| Resul | L . | . negative | |
| - | yl cinnamate: | | |
| Test T | | : Maximisa | |
| Expos | sure routes | : Skin cont : Guinea p | |
| Metho | | | 9 st Guideline 406 |
| Rema | | | data from similar materials |
| Asses | ssment | : Probabilit rate in hu | y or evidence of low to moderate skin sensitisatio mans |
| Germ | cell mutagenicity | | |
| | assified based on av | ailable information | ۱. |
| <u>Comp</u> | oonents: | | |
| - | pyridine: | | |
| Genot | toxicity in vitro | | e: In vitro sister chromatid exchange assay in man |
| | | malian ce Result: po | |
| | | ivesuit. p | 1911 A C |



| rsion I | Revision Date: 28.09.2024 | SDS Number: 5624964-00011 | Date of last issue: 06.04.2024 Date of first issue: 09.04.2020 |
|-----------------------|----------------------------------|--|---|
| | | | hromosome aberration test in vitro Chinese hamster cells ive |
| Genotoxicity in vivo | | : Test Type: M cytogenetic a Species: Mou Cell type: Bou Result: negat | ise arrow |
| Germ sessr | i cell mutagenicity- As- nent | : Weight of evi cell mutagen. | dence does not support classification as a ger |
| Benz | yl benzoate: | | |
| Geno | toxicity in vitro | : Test Type: Ba Result: negat | acterial reverse mutation assay (AMES) ive |
| | | Test Type: In Result: negat | vitro mammalian cell gene mutation test ive |
| | | Test Type: Cl Result: negat | hromosome aberration test in vitro ive |
| Genotoxicity in vivo | | mammalian li Species: Rat Application R Result: negat | nscheduled DNA synthesis (UDS) test with ver cells in vivo oute: Ingestion ive sed on data from similar materials |
| Benz | yl cinnamate: | | |
| Genotoxicity in vitro | | Method: OEC Result: negat | vitro mammalian cell gene mutation test CD Test Guideline 476 ive sed on data from similar materials |
| | | malian cells Result: negat | vitro sister chromatid exchange assay in man ive sed on data from similar materials |
| | | Result: negat | acterial reverse mutation assay (AMES) ive sed on data from similar materials |

Components:

Sulfapyridine:



| Vers 4.1 | sion | Revision Date: 28.09.2024 | SDS Number: 5624964-00011 | | Date of last issue: 06.04.2024 Date of first issue: 09.04.2020 |
|-------------|--------------|--------------------------------------|------------------------------|---|---|
| | ment | | | | |
| | Benzv | I benzoate: | | | |
| | Specie | S | : | Rat | |
| | Result | ation Route | | Ingestion negative | |
| | Remar | | : | | om similar materials |
| | Benzy | I cinnamate: | | | |
| | Specie | | : | Rat | |
| | | ation Route | : | Ingestion | |
| | Result | ure time | : | 105 weeks negative | |
| | Remar | ks | : | | om similar materials |
| | Specie | | : | Mouse | |
| | | ation Route ure time | : | Ingestion 105 weeks | |
| | Result | | ÷ | negative | |
| | Remar | | : | | om similar materials |
| | - | ductive toxicity amage fertility. | | | |
| | Comp | onents: | | | |
| | Sulfap | yridine: | | | |
| | | ductive toxicity - As- | : | | e of adverse effects on sexual function and an epidemiological studies. |
| | Benzy | I benzoate: | | | |
| | Effects | on fertility | : | Test Type: Two-g Species: Rat Application Route | generation reproduction toxicity study |
| | | | | Result: negative | on data from similar materials |
| | Effects | on foetal develop- | : | | yo-foetal development |
| | ment | | | Species: Rat Application Route Result: negative | e: Ingestion |
| | Benzy | I cinnamate: | | | |
| | Effects | on fertility | : | reproduction/dev Species: Rat Application Route Method: OECD T Result: negative | est Guideline 422 |
| | | | | | on data from similar materials |
| | Effects ment | on foetal develop- | : | Test Type: Embr Species: Rat | yo-foetal development |



| sion | Revision Date: 28.09.2024 | - | 9S Number: 24964-00011 | Date of last issue: 06.04.2024 Date of first issue: 09.04.2020 |
|-------------|---|-------|---------------------------|--|
| | ite: Ingestion e d on data from similar materials | | | |
| | - single exposure es damage to organs. | | | |
| | oonents: | | | |
| Sulfa | pyridine: | | | |
| Expos | sure routes ssment | : | | ice significant health effects in animals at cor 00 mg/kg bw or less. |
| sтот | - repeated exposure | | | |
| Not cl | assified based on avail | lable | information. | |
| Repe | ated dose toxicity | | | |
| <u>Comp</u> | oonents: | | | |
| Benz | yl benzoate: | | | |
| Speci | | : | Rat | |
| NOAE | | : | > 100 mg/kg | |
| | cation Route sure time | : | Ingestion 13 Weeks | |
| Rema | | : | | rom similar materials |
| Speci | es | : | Rat | |
| NOAE | | : | 781 mg/kg | |
| LOAE | | : | 1.250 mg/kg | |
| | cation Route sure time | : | Skin contact 4 Weeks | |
| Expo | | • | 4 WEEKS | |
| | yl cinnamate: | | | |
| Speci | | : | Rat, male | |
| NOAE | | : | 275 mg/kg | |
| | cation Route sure time | ÷ | Ingestion 90 Days | |
| Rema | | ÷ | | rom similar materials |
| | arks ration toxicity | : | Based on data f | rom similar materials |
| - | lassified based on avail | lable | information. | |
| Expe | rience with human ex | posu | re | |
| <u>Comp</u> | oonents: | | | |
| Sulfa | pyridine: | | | |
| | contact | : | Symptoms: Ser | |
| Inges | tion | : | | strointestinal disturbance |
| | | | Symptoms: Ser | |
| | | | Symptoms: Hea | |

Symptoms: hepatitis



| Version 4.1 | Revision Date: 28.09.2024 | | DS Number: 24964-00011 | Date of last issue: 06.04.2024 Date of first issue: 09.04.2020 | |
|----------------|---|-----|---|---|--|
| | | | Symptoms: Steve | ens-Johnson syndrome | |
| SECTIO | N 12: Ecological infor | rma | tion | | |
| 12.1 Tox | licity | | | | |
| Con | nponents: | | | | |
| Sulf | apyridine: | | | | |
| Toxi plan | icity to algae/aquatic its | : | EC10 (Raphidoce mg/l End point: Growth Exposure time: 72 | | |
| Ben | zyl benzoate: | | | | |
| Tox | icity to fish | : | Exposure time: 96 | (zebra fish)): 2,32 mg/l 3 h 67/548/EEC, Annex V, C.1. | |
| | icity to daphnia and other atic invertebrates | : | EC50 (Daphnia m Exposure time: 48 Method: OECD Te | | |
| Toxi plan | icity to algae/aquatic its | : | ErC50 (Raphidoce 0,475 mg/l Exposure time: 72 Method: OECD Te | | |
| | | | NOEC (Raphidoc 0,247 mg/l Exposure time: 72 Method: OECD To | | |
| M-F icity | actor (Acute aquatic tox-) | : | 1 | | |
| Tox | icity to microorganisms | : | EC50 (activated s Exposure time: 3 Method: ISO 8192 | | |
| Toxi icity | icity to fish (Chronic tox-) | : | EC10: 0,032 mg/l Exposure time: 35 Species: Danio re Method: OECD Te | 5 d rio (zebra fish) | |
| aqua | icity to daphnia and other atic invertebrates (Chron- xicity) | | NOEC: 0,258 mg/ Exposure time: 21 Species: Daphnia Method: OECD Te | l d magna (Water flea) | |
| | zyl cinnamate: icity to fish | : | LC50 (Danio rerio Exposure time: 96 | (zebra fish)): > 0,643 mg/l 5 h | |



| ersion 1 | Revision Date: 28.09.2024 | | DS Number:Date of last issue: 06.04.2024624964-00011Date of first issue: 09.04.2020 |
|---|--|----------|---|
| | y to daphnia and other c invertebrates | : | EL50 (Daphnia magna (Water flea)): 2,8 mg/l Exposure time: 48 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 202 |
| Toxicit plants | y to algae/aquatic | : | ErC50 (Pseudokirchneriella subcapitata (green algae)): 0,380 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 |
| | | | EC10 (Pseudokirchneriella subcapitata (green algae)): 0,122 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 |
| M-Fact icity) | tor (Acute aquatic tox- | : | 1 |
| Toxicit | y to microorganisms | : | EC50 : > 100 mg/l Exposure time: 3 h Method: ISO 8192 |
| | | | Remarks: Based on data from similar materials |
| | stence and degradabil | ity | |
| Comp | onents: | ity | |
| <u>Comp</u> Benzy | - | ity : | , |
| Compo Benzy Biodeg Benzy | onents: I benzoate: | - | Result: Readily biodegradable. Biodegradation: 94 % Exposure time: 28 d |
| Compe Benzy Biodeg Benzy Biodeg | onents: I benzoate: gradability I cinnamate: | - | Result: Readily biodegradable. Biodegradation: 94 % Exposure time: 28 d Method: Directive 67/548/EEC Annex V, C.4.D. Result: Readily biodegradable. Biodegradation: 100 % Exposure time: 7 d |
| Compo Benzy Biodeg Benzy Biodeg 2.3 Bioace | onents: I benzoate: gradability I cinnamate: gradability | - | Result: Readily biodegradable. Biodegradation: 94 % Exposure time: 28 d Method: Directive 67/548/EEC Annex V, C.4.D. Result: Readily biodegradable. Biodegradation: 100 % Exposure time: 7 d |
| Compe Benzy Biodeg Benzy Biodeg 2.3 Bioace Compe Benzy | onents: I benzoate: gradability I cinnamate: gradability cumulative potential onents: I benzoate: | - | Result: Readily biodegradable. Biodegradation: 94 % Exposure time: 28 d Method: Directive 67/548/EEC Annex V, C.4.D. Result: Readily biodegradable. Biodegradation: 100 % Exposure time: 7 d Remarks: Based on data from similar materials |
| Compe Benzy Biodeg Benzy Biodeg 2.3 Bioace Compe Benzy Partitic | onents: I benzoate: gradability I cinnamate: gradability cumulative potential onents: | - | Result: Readily biodegradable. Biodegradation: 94 % Exposure time: 28 d Method: Directive 67/548/EEC Annex V, C.4.D. Result: Readily biodegradable. Biodegradation: 100 % Exposure time: 7 d Remarks: Based on data from similar materials |
| Compe Benzy Biodeg Benzy Biodeg 2.3 Bioacc Compe Benzy Partitic octano | onents: I benzoate: gradability I cinnamate: gradability cumulative potential onents: I benzoate: on coefficient: n- | : | Result: Readily biodegradable. Biodegradation: 94 % Exposure time: 28 d Method: Directive 67/548/EEC Annex V, C.4.D. Result: Readily biodegradable. Biodegradation: 100 % Exposure time: 7 d Remarks: Based on data from similar materials |



| Version 4.1 | Revision Date: 28.09.2024 | SDS Number: 5624964-00011 | Date of last issue: 06.04.2024 Date of first issue: 09.04.2020 |
|---------------------|---------------------------------------|------------------------------|--|
| | ility in soil ata available | | |
| 12.5 Resu | Its of PBT and vPvB a | ssessment | |
| <u>Prod</u> Asse | <u>uct:</u> ssment | to be either p | ce/mixture contains no components considered ersistent, bioaccumulative and toxic (PBT), or nt and very bioaccumulative (vPvB) at levels of er. |
| 12.6 Othe | er adverse effects | | |
| Prod | uct: | | |
| Endo tial | crine disrupting poten- | ered to have REACH Artic | e/mixture does not contain components consid- endocrine disrupting properties according to le 57(f) or Commission Delegated regulation 00 or Commission Regulation (EU) 2018/605 at 6 or higher. |
| SECTION | N 13: Disposal consi | derations | |
| 13.1 Was | te treatment methods | | |
| Prod | uct | • | accordance with local regulations. the European Waste Catalogue, Waste Codes |

| Contaminated packaging Contaminated packaging |
|--|
|--|

SECTION 14: Transport information

14.1 UN number

| ADN | : | UN 2811 |
|------------------------------|---|--|
| ADR | : | UN 2811 |
| RID | : | UN 2811 |
| IMDG | : | UN 2811 |
| ΙΑΤΑ | : | UN 2811 |
| 14.2 UN proper shipping name | | |
| ADN | : | TOXIC SOLID, ORGANIC, N.O.S. (Sulfapyridine) |
| ADR | : | TOXIC SOLID, ORGANIC, N.O.S. (Sulfapyridine) |
| RID | : | TOXIC SOLID, ORGANIC, N.O.S. |



| Version 4.1 | Revision Date: 28.09.2024 | | 0S Number: 24964-00011 | Date of last issue: 06.04.2024 Date of first issue: 09.04.2020 |
|---------------------------|---|----|---------------------------------------|---|
| | | | (Sulfapyridine) | |
| IMD | G | : | TOXIC SOLID, O (Sulfapyridine) | RGANIC, N.O.S. |
| IAT | A | : | Toxic solid, organ (Sulfapyridine) | ic, n.o.s. |
| 14.3 Tra | nsport hazard class(es) | | | |
| | | | Class | Subsidiary risks |
| ADI | N | : | 6.1 | |
| AD | र | : | 6.1 | |
| RID | | : | 6.1 | |
| IMD | G | : | 6.1 | |
| IAT | A | : | 6.1 | |
| | king group | - | | |
| | | | | |
| Clas | king group ssification Code ard Identification Number | : | III T2 60 6.1 | |
| ADI | | • | 0.1 | |
| Pac Clas Haz Lab | king group ssification Code ard Identification Number | : | III T2 60 6.1 (E) | |
| RID | | • | (-) | |
| Pac Clas | king group ssification Code ard Identification Number | :: | III T2 60 6.1 | |
| IMD | G | | | |
| Lab | king group els S Code | : | III 6.1 F-A, S-A | |
| | A (Cargo) | • | , | |
| Pac | king instruction (cargo | : | 677 | |
| Pac | king instruction (LQ) | : | Y645 | |
| Pac Lab | king group els | : | III Toxic | |
| | A (Passenger) | • | . 5/10 | |
| Pac ger | king instruction (passen- aircraft) | : | 670 | |
| Pac | king instruction (LQ) king group | : | Y645 III | |
| Lab | | ÷ | Toxic | |
| 14.5 Env | vironmental hazards | | | |
| | | | | |



| Version 4.1 | Revision Date: 28.09.2024 | SDS Number: 5624964-00011 | Date of last issue: 06.04.2024 Date of first issue: 09.04.2020 |
|--------------------|------------------------------------|------------------------------|---|
| ADI Envi | I ironmentally hazardous | : no | |
| ADF Envi | R ironmentally hazardous | : no | |
| RID Envi | ironmentally hazardous | : no | |
| IMD Mari | G ine pollutant | : no | |
| 14.6 Sne | cial precautions for us | ٥r | |

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

| Remarks |
|---------|
|---------|

: Not applicable for product as supplied.

SECTION 15: Regulatory information

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

| The components of this product are reported in the following inventories: | | | | |
|---|------------------|--|--|--|
| AICS | : not determined | | | |

| DSL | : | not determined |
|-------|---|----------------|
| IECSC | : | not determined |

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

| Other information | : | Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines. | | |
|----------------------------------|---|--|--|--|
| Full text of H-Statements | | | | |
| H300 | : | Fatal if swallowed. | | |
| H302 | : | Harmful if swallowed. | | |
| H317 | : | May cause an allergic skin reaction. | | |
| H360F | : | May damage fertility. | | |
| H370 | : | Causes damage to organs if swallowed. | | |
| H400 | : | Very toxic to aquatic life. | | |
| H411 | : | Toxic to aquatic life with long lasting effects. | | |
| Full text of other abbreviations | | | | |
| Acute Tox. | : | Acute toxicity | | |
| Aquatic Acute | : | Short-term (acute) aquatic hazard | | |
| | | | | |



| Version 4.1 | Revision Date: 28.09.2024 | SDS Number: 5624964-00011 | Date of last issue: 06.04.2024 Date of first issue: 09.04.2020 |
|----------------------------------|---------------------------|---|---|
| Aquat Repr. Skin S STOT | Sens. | : Reproductive to : Skin sensitisati | • |
| ADN - | · European Agreeme | nt concerning the Inter | national Carriage of Dangerous Goods b |

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 - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - 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

| Sources of key data used to compile the Safety Data Sheet | eChei | al technical data, data from raw material SDSs, OECD m Portal search results and European Chemicals Agen- p://echa.europa.eu/ |
|---|-------|---|
| Classification of the mixture | e: | Classification procedure: |
| Acute Tox. 3 | H301 | Calculation method |
| Skin Sens. 1 | H317 | Calculation method |
| Repr. 1A | H360F | Calculation method |
| STOT SE 1 | H370 | Calculation method |
| Aquatic Chronic 3 | H412 | Calculation method |



| Version | Revision Date: | SDS Number: | Date of last issue: 06.04.2024 |
|---------|----------------|---------------|---------------------------------|
| 4.1 | 28.09.2024 | 5624964-00011 | Date of first issue: 09.04.2020 |

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