

| Version 6.0 | Revision Date: 04.04.2023 | SDS Number: 1497010-00021 | Date of last issue: 09.02.2023 Date of first issue: 29.03.2017 | | |
|--|---|------------------------------------|---|--|--|
| SECTIC | N 1: Identification of | the substance | mixture and of the company/undertaking | | |
| | uct identifier de name | : Ivermectin (| with Isopropyl Alcohol) Formulation | | |
| Use | vant identified uses of of the Sub- ice/Mixture | the substance or : Veterinary p | mixture and uses advised against product | | |
| Rec on u | ommended restrictions ise | : Not applical | ble | | |
| 1.3 Details of the supplier of the safety data sheet | | | | | |
| Con | npany | : MSD Kilsheelan Clonmel T | ipperary, IE | | |

| Telephone | : | 353-51-601000 |
|--|---|------------------------|
| E-mail address of person responsible for the SDS | : | EHSDATASTEWARD@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)

| Flammable liquids, Category 3 | H226: Flammable liquid and vapour. |
|---|--|
| Eye irritation, Category 2 | H319: Causes serious eye irritation. |
| Skin sensitisation, Category 1 | H317: May cause an allergic skin reaction. |
| Germ cell mutagenicity, Category 2 | H341: Suspected of causing genetic defects. |
| Specific target organ toxicity - single ex- | H336: May cause drowsiness or dizziness. |
| posure, Category 3 | |
| Short-term (acute) aquatic hazard, Cate- | H400: Very toxic to aquatic life. |
| gory 1 | |
| Long-term (chronic) aquatic hazard, Cat- | H410: Very toxic to aquatic life with long lasting |
| egory 1 | effects. |

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)



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| Haz | ard pictograms | : | | |
| Sig | nal word | : W | /arning | |
| Haz | ard statements | H: H: H: H: | 317May cause319Causes se336May cause341Suspected | e liquid and vapour. e an allergic skin reaction. prious eye irritation. e drowsiness or dizziness. I of causing genetic defects. to aquatic life with long lasting effects. |
| Pre | cautionary statements | : Pi | revention: | |
| | | P2 fla P2 P2 | 210 Keep awa ames and other i 273 Avoid rele | ecial instructions before use. y from heat, hot surfaces, sparks, open gnition sources. No smoking. ase to the environment. ective gloves/ protective clothing/ eye protec- n. |
| | | R | esponse: | |
| | | ai Cl | | ortable for breathing. Call a POISON |

Hazardous components which must be listed on the label: Propan-2-ol 7-Oxabicyclo[4.1.0]hept-3-ylmethyl 7-oxabicyclo[4.1.0]heptane-3-carboxylate

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Vapours may form explosive mixture with air.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components



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|----------------|--|---|--|--------------------------|
| Chem | nical name | CAS-No. EC-No. Index-No. Registration number | Classification | Concentration (% w/w) |
| 2-(2-6 | Butoxyethoxy)ethanol | 112-34-5 203-961-6 603-096-00-8 | Eye Irrit. 2; H319 | >= 50 - < 70 |
| Propa | an-2-ol | 67-63-0 200-661-7 603-117-00-0 | Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 | >= 30 - < 50 |
| oxabi | abicyclo[4.1.0]hept-3-ylme icyclo[4.1.0]heptane-3- oxylate | thyl 7- 2386-87-0 219-207-4 | Skin Sens. 1; H317 Muta. 2; H341 STOT RE 2; H373 (nasal cavity) Aquatic Chronic 3; H412 | >= 1 - < 2,5 |
| lverm | nectin | 70288-86-7 274-536-0 | Acute Tox. 2; H300 Acute Tox. 3; H311 STOT SE 1; H370 (Central nervous system) STOT RE 1; H372 (Central nervous system) Aquatic Acute 1; H400 Aquatic Chronic 1; H400 M-Factor (Acute aquatic toxicity): 10.000 M-Factor (Chronic aquatic toxicity): 10.000 | >= 0,25 - < 1 |
| 2,6-D | ii-tert-butyl-p-cresol | 128-37-0 204-881-4 | Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1 | >= 0,25 - < 1 |

For explanation of abbreviations see section 16.



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SECTION 4: First aid measures

| General advice | In the ended of appident or if you feel yourself, each medicated at |
|--------------------------------|--|
| 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 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 | In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lens, if worn. Get medical attention. |
| If swallowed | : If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water. |
| I.2 Most important symptoms | and effects, both acute and delayed |
| Risks | : May cause an allergic skin reaction. |
| | Causes serious eye irritation. May cause drowsiness or dizziness. |
| | Suspected of causing genetic defects. |
| I.3 Indication of any immediat | e medical attention and special treatment needed |
| Treatment | : Treat symptomatically and supportively. |

5.1 Extinguishing media

| Suitable extinguishing media | : | Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical |
|------------------------------|---|---|
| Unsuitable extinguishing | : | High volume water jet |



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| | media | | | | | | | |
| 5.2 8 | 5.2 Special hazards arising from the substance or mixture | | | | | | | |
| Specific hazards during fire- fighting | | | : | Do not use a solid water stream as it may scatter and spread fire. Flash back possible over considerable distance. Vapours may form explosive mixtures with air. Exposure to combustion products may be a hazard to health. | | | | |
| | Hazard ucts | ous combustion prod- | : | Carbon oxides | | | | |
| 5.3 A | Advice | for firefighters | | | | | | |
| | Special for firef | l protective equipment ighters | : | | e, wear self-contained breathing apparatus. ective equipment. | | | |
| | Specific ods | c extinguishing 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 | | | |

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

| Follow safe | hal protective equipment. handling advice (see section 7) and personal pro- ipment recommendations (see section 8). |
|-------------|---|
|-------------|---|

6.2 Environmental precautions

| Environmental precautions : | Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained. |
|-----------------------------|--|
|-----------------------------|--|

6.3 Methods and material for containment and cleaning up

| Methods for cleaning up | Non-sparking tools should be used. Soak up with inert absorbent material. Suppress (knock down) gases/vapours/mists with a water spray jet. For large spills, provide dyking or other appropriate contain- |
|-------------------------|---|
| | ment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absor- |



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| | | posal of this ma employed in the mine which reg Sections 13 and | al regulations may apply to releases and dis- iterial, as well as those materials and items e cleanup of releases. You will need to deter- ulations are applicable. d 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 | See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section. |
|-------------------------------------|---|
| Local/Total ventilation | If sufficient ventilation is unavailable, use with local exhaust ventilation. Use explosion-proof electrical, ventilating and lighting equip- |
| Advice on safe handling : | ment. Do not get on skin or clothing. Do not breathe mist or vapours. Do not swallow. Do not get in eyes. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment Non-sparking tools should be used. Keep container tightly closed. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharges. Take care to prevent spills, waste and minimize release to the |
| Hygiene measures : | 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. |
| 7.2 Conditions for safe storage, in | cluding any incompatibilities |

| Requirements for storage | : | Keep in properly labelled containers. Store locked up. Keep |
|--------------------------|---|---|
| areas and containers | | tightly closed. Keep in a cool, well-ventilated place. Store in |
| | | accordance with the particular national regulations. Keep |
| | | away from heat and sources of ignition. |



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| Advice | e on common storage | Strong oxidizing Self-reactive sul Organic peroxid Flammable solid Pyrophoric liquid Pyrophoric solid Self-heating sub Substances and flammable gase Explosives Gases | ostances and mixtures es ds ds s stances and mixtures I mixtures, which in contact with water, emit |
| - | c end use(s) ic use(s) | : No data availab | e |

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

| Components | CAS-No. | Value type (Form of exposure) | Control parameters | Basis | |
|------------------------------------|----------------|-------------------------------|-----------------------|-------------------------|--|
| 2-(2- Butoxyeth- oxy)ethanol | 112-34-5 | TWA | 10 ppm 68 mg/m3 | FOR-2011- 12-06-1358 | |
| | | TWA | 10 ppm 67,5 mg/m3 | 2006/15/EC | |
| | Further inform | mation: Indicative | | | |
| | | STEL | 15 ppm 101,2 mg/m3 | 2006/15/EC | |
| | Further inform | nation: Indicative | | | |
| Propan-2-ol | 67-63-0 | TWA | 100 ppm 245 mg/m3 | FOR-2011- 12-06-1358 | |
| Ivermectin | 70288-86-7 | TWA | 30 µg/m3 (OEB 3) | Internal | |
| | Further inform | | | | |
| | | Wipe limit | 300 µg/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 |
|--|---------|-----------------|-------------------------------|------------|
| 7- Oxabicy- clo[4.1.0]hept-3- ylmethyl 7- oxabicy- clo[4.1.0]heptane-3- | Workers | Inhalation | Long-term systemic effects | 0,18 mg/m3 |



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| carbo | xylate | | | | |
| | , | Workers | Inhalation | Long-term local ef- fects | 0,18 mg/m3 |
| | | Workers | Skin contact | Long-term systemic effects | 0,05 mg/kg bw/day |
| Propa | in-2-ol | Workers | Inhalation | Long-term systemic effects | 500 mg/m3 |
| | | Workers | Skin contact | Long-term systemic effects | 888 mg/kg bw/day |
| | | Consumers | Inhalation | Long-term systemic effects | 89 mg/m3 |
| | | Consumers | Skin contact | Long-term systemic effects | 319 mg/kg bw/day |
| | | Consumers | Ingestion | Long-term systemic effects | 26 mg/kg bw/day |
| 2-(2- Butox | yethoxy)ethanol | Workers | Inhalation | Long-term systemic effects | 67,5 mg/m3 |
| | | Workers | Inhalation | Long-term local ef- fects | 67,5 mg/m3 |
| | | Workers | Inhalation | Acute local effects | 101,2 mg/m3 |
| | | Workers | Skin contact | Long-term systemic effects | 83 mg/kg bw/day |
| | | Consumers | Inhalation | Long-term systemic effects | 40,5 mg/m3 |
| | | Consumers | Inhalation | Long-term local ef- fects | 40,5 mg/m3 |
| | | Consumers | Inhalation | Acute local effects | 60,7 mg/m3 |
| | | Consumers | Skin contact | Long-term systemic effects | 50 mg/kg bw/day |
| | | Consumers | Ingestion | Long-term systemic effects | 5 mg/kg bw/day |
| 2,6-D creso | i-tert-butyl-p- I | Workers | Inhalation | Long-term systemic effects | 3,5 mg/m3 |
| | | Workers | Dermal | Long-term systemic effects | 0,5 mg/kg bw/day |
| | | Consumers | Inhalation | Long-term systemic effects | 0,86 mg/m3 |
| | | Consumers | Dermal | Long-term systemic effects | 0,25 mg/kg bw/day |
| | | Consumers | Ingestion | Long-term systemic effects | 0,25 mg/kg bw/day |

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

| Substance name | Environmental Compartment | Value |
|-----------------------------|---------------------------|-----------------|
| 7-Oxabicyclo[4.1.0]hept-3- | Fresh water | 0,024 mg/l |
| ylmethyl 7- | | |
| oxabicyclo[4.1.0]heptane-3- | | |
| carboxylate | | |
| | Freshwater - intermittent | 0,24 mg/l |
| | Marine water | 0,0024 mg/l |
| | Sewage treatment plant | 19,5 mg/l |
| | Fresh water sediment | 0,211 mg/kg dry |



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| П | | | | weight (d.w.) | |
| | | Marine sedime | ent | 0,0211 mg/kg dry weight (d.w.) | |
| | | Soil | | 0,0282 mg/kg dry weight (d.w.) | |
| Propa | an-2-ol | Fresh water | | 140,9 mg/l | |
| | | Marine water | | 140,9 mg/l | |
| | | Intermittent us | e/release | 140,9 mg/l | |
| | | Sewage treatr | | 2251 mg/l | |
| | | Fresh water se | | 552 mg/kg dry weight (d.w.) | |
| | | Marine sedime | ent | 552 mg/kg dry weight (d.w.) | |
| | | Soil | | 28 mg/kg dry weight (d.w.) | |
| | | Oral (Seconda | Oral (Secondary Poisoning) | | |
| 2-(2-E | Butoxyethoxy)ethanol | Fresh water | • • | 1,1 mg/l | |
| | | Freshwater - i | ntermittent | 11 mg/l | |
| | | Marine water | | 0,11 mg/l | |
| | | Sewage treatr | | 200 mg/l | |
| | | Fresh water se | ediment | 4,4 mg/kg dry weight (d.w.) | |
| | | Marine sedime | ent | 0,44 mg/kg dry weight (d.w.) | |
| | | Soil | | 0,32 mg/kg dry weight (d.w.) | |
| | | Secondary Po | isoning | 56 mg/kg food | |
| 2,6-D | i-tert-butyl-p-cresol | Fresh water | | 0,199 µg/l | |
| | | Intermittent us | e/release | 0,02 µg/l | |
| | | Marine water | | 0,02 µg/l | |
| | | Sewage treatr | nent plant | 0,17 mg/l | |
| | | Fresh water se | ediment | 0,0996 mg/kg dry weight (d.w.) | |
| | | Marine sedime | ent | 0,00996 mg/kg dry weight (d.w.) | |
| l | | Soil | | 0,04769 mg/kg dry weight (d.w.) | |
| H | | Oral (Seconda | arv Poisonina) | 8,33 mg/kg food | |

8.2 Exposure controls

Engineering measures

Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., drip-less quick connections).

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

Containment technologies suitable for controlling compounds are required to control at source and to prevent migration of the compound to uncontrolled areas (e.g., open-face containment devices).

Minimize open handling.

Use explosion-proof electrical, ventilating and lighting equipment.

Personal protective equipment



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| 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 | I protection | | | | | |
| Material | | : | Chemical-resistant gloves | | | |
| Remarks | | | Consider double gloving. Take note that the product is flam- mable, which may impact the selection of hand protection. | | | |
| Skin a | and body protection | : | | | | |
| Respi | iratory protection | : | If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Equipment should conform to NS EN 14387 | | | |
| Fil | ter type | | Organic vapour ty | | | |

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| Physical state Colour Odour Odour Threshold | : | liquid yellow solvent-like No data available |
|--|---|---|
| Melting point/freezing point | : | No data available |
| Initial boiling point and boiling | : | No data available |
| range Flammability (solid, gas) | : | Not applicable |
| Flammability (liquids) | : | No data available |
| Upper explosion limit / Upper flammability limit | : | No data available |
| Lower explosion limit / Lower flammability limit | : | No data available |
| Flash point | : | 28 °C |
| Auto-ignition temperature | : | No data available |
| Decomposition temperature | : | No data available |



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| | рН | | : | No data availabl | e | | |
| | Viscos Vis | ity cosity, kinematic | : | No data availabl | е | | |
| | | lity(ies) ter solubility | : | : No data available | | | |
| | | on coefficient: n- I/water | : | Not applicable | | | |
| | | r pressure | : | No data availabl | e | | |
| | Relativ | ve density | : No data available | | e | | |
| | Densit | у | : | : 0,855 - 0,905 g/cm³ | | | |
| | Relative vapour density | | : | No data available | | | |
| | | e characteristics ticle size | : Not applicable | | | | |
| 9.2 | • | nformation | | | | | |
| | Explos | sives | : | Not explosive | | | |
| | Oxidizi | ing properties | : | The substance of | or mixture is not classified as oxidizing. | | |
| | Evapo | ration rate | : | No data availabl | e | | |
| | Molecu | ular weight | : | No data availabl | e | | |

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 Flammable liquid and vapour. Vapours may form explosive mixture with air. Can react with strong oxidizing agents. 10.4 Conditions to avoid Heat, flames and sparks. 10.5 Incompatible materials Materials to avoid Oxidizing agents



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10.6 Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

| 11.1 Information on hazard class Information on likely routes of exposure | | as defined in Regulation (EC) No 1272/2008 Inhalation Skin contact Ingestion Eye contact |
|--|-----|---|
| Acute toxicity | | |
| Not classified based on availa | ble | information. |
| Product: | | |
| Acute oral toxicity | : | Acute toxicity estimate: > 2.000 mg/kg Method: Calculation method |
| Acute dermal toxicity | : | Acute toxicity estimate: > 2.000 mg/kg Method: Calculation method |
| Components: | | |
| 2-(2-Butoxyethoxy)ethanol: | | |
| Acute oral toxicity | : | LD50 (Mouse): 2.410 mg/kg |
| Acute dermal toxicity | : | LD50 (Rabbit): 2.764 mg/kg |
| Propan-2-ol: | | |
| Acute oral toxicity | : | LD50 (Rat): > 5.000 mg/kg |
| Acute inhalation toxicity | : | LC50 (Rat): > 25 mg/l Exposure time: 6 h |
| | | Test atmosphere: vapour |
| Acute dermal toxicity | : | LD50 (Rabbit): > 5.000 mg/kg |
| 7-Oxabicyclo[4.1.0]hept-3-y | Ime | thyl 7-oxabicyclo[4.1.0]heptane-3-carboxylate: |
| Acute oral toxicity | : | LD50 (Rat, male): > 2.959 - 5.000 mg/kg Method: OECD Test Guideline 401 |
| Acute inhalation toxicity | : | LC50 (Rat): >= 5,19 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 436 Assessment: The substance or mixture has no acute inhala- tion toxicity |
| Acute dermal toxicity | : | LD50 (Rat): > 2.000 mg/kg Method: OECD Test Guideline 402 |
| | | |



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| | | | Assessment: The toxicity | e substance or mixture has no acute dermal |
| lverr | mectin: | | | |
| Acut | e oral toxicity | : | LD50 (Rat): 50 m | g/kg |
| | | | LD50 (Mouse): 28 | 5 mg/kg |
| | | | Symptoms: Vomi | > 24 mg/kg Central nervous system ting, Dilatation of the pupil rtality observed at this dose. |
| Acut | e inhalation toxicity | : | LC50 (Rat): 5,11 Exposure time: 1 Test atmosphere: | h |
| Acut | e dermal toxicity | : | LD50 (Rabbit): 40 | 06 mg/kg |
| | | | LD50 (Rat): > 660 | 0 mg/kg |
| 11 2,6-D | Di-tert-butyl-p-cresol: | | | |
| Acut | e oral toxicity | : | LD50 (Rat): > 6.0 Method: OECD T | 00 mg/kg est Guideline 401 |
| Acut | e dermal toxicity | : | | 00 mg/kg est Guideline 402 substance or mixture has no acute dermal |
| - | corrosion/irritation | lable | information. | |
| | ponents: | | | |
| 2-(2- | Butoxyethoxy)ethanol | : | | |
| Spec | | : | Rabbit | |
| Meth Resu | | : | OECD Test Guide Mild skin irritation | |
| Prop | oan-2-ol: | | | |
| Spec | | : | Rabbit | |
| Resu | ult | : | No skin irritation | |
| 7-Ox | abicyclo[4.1.0]hept-3- | ylme | thyl 7-oxabicyclo | [4.1.0]heptane-3-carboxylate: |
| Spec | cies | : | Rabbit | alina 404 |
| Resu | ult | : | OECD Test Guide No skin irritation | |



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| lverme | ectin: | | | | |
| Specie | ••••• | : | Rabbit | | |
| Result | | : | No skin irritation | | |
| 2,6-Di- | tert-butyl-p-cresol: | | | | |
| Specie | | : | Rabbit | | |
| Methoo Result | 1 | | OECD Test Guide No skin irritation | eline 404 | |
| Remar | ks | | | om similar materials | |
| Seriou | s eye damage/eye irri | itati | on | | |
| | s serious eye irritation. | | | | |
| Compo | onents: | | | | |
| 2-(2-Bı | utoxyethoxy)ethanol: | | | | |
| Specie | s | : | Rabbit | | |
| Result | | ÷ | Irritation to eyes, | reversing within 21 days | |
| Propar | 1-2-ol: | | | | |
| Specie | s | : | Rabbit | | |
| Result | | : | Irritation to eyes, | reversing within 21 days | |
| 7-Oxab | bicyclo[4.1.0]hept-3-y | Ime | thyl 7-oxabicyclo | [4.1.0]heptane-3-carboxylate: | |
| Specie | | : | Rabbit | | |
| Method | ł | : | : OECD Test Guideline 405 | | |
| Result | | · | No eye irritation | | |
| lverme | ectin: | | | | |
| Specie | S | : | Rabbit | | |
| Result | | : | Mild eye irritation | | |
| 2,6-Di- | tert-butyl-p-cresol: | | | | |
| Specie | S | : | Rabbit | | |
| Method | ł | : | OECD Test Guide | eline 405 | |
| Result | ko | : | No eye irritation | om similar materials | |
| Remar | K5 | • | Daseu on data Iro | | |
| Respir | atory or skin sensitis | atic | on | | |
| Skin se | ensitisation | | | | |
| | use an allergic skin rea | actio | on. | | |

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified based on available information.

Components:

2-(2-Butoxyethoxy)ethanol:



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|---|--|---|---|
| Test Type Exposure routes Species Result | | : Maximisation Tes : Skin contact : Guinea pig : negative | t |
| Test T | ure routes es d | Buehler Test Skin contact Guinea pig OECD Test Guide negative | eline 406 |
| Test T | ype ure routes es | methyl 7-oxabicyclo : Maximisation Tes : Skin contact : Guinea pig : positive | [4.1.0]heptane-3-carboxylate: st |
| Asses | sment | : Probability or evid | dence of skin sensitisation in humans |
| Ivermo Expos Specie Result | ure routes es | : Dermal : Humans : Does not cause s | kin sensitisation. |
| Test T | ure routes es | : Human repeat ins : Skin contact : Humans : negative | sult patch test (HRIPT) |
| | cell mutagenicity cted of causing genetic | defects. | |
| | onents: | | |
| | utoxyethoxy)ethanol: oxicity in vitro | : Test Type: Bacte Result: negative | rial reverse mutation assay (AMES) |
| | | Result: negative | o mammalian cell gene mutation test |
| Genot | oxicity in vivo | | enicity (in vivo mammalian bone-marrow chromosomal analysis) |
| | | | |



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|---------------------------|--|---|--|
| | | | |
| an-2-ol: | | | |
| otoxicity in vitro | | | |
| | | | |
| otoxicity in vivo | cytogenetic as Species: Mous Application Ro | say) e ute: Intraperitoneal injection | vo |
| abicyclo[4.1.0]hept-3 | 3-ylmethyl 7-oxabicyd | :lo[4.1.0]heptane-3-carboxylate: | |
| otoxicity in vitro | Method: OEC |) Test Guideline 471 | |
| | | | |
| | malian cells | | n- |
| | thesis in mamr | nalian cells (in vitro) |)- |
| otoxicity in vivo | mammalian liv Species: Rat Application Ro Method: OECI | er cells in vivo ute: Ingestion) Test Guideline 486 | |
| | Species: Mous Application Ro | e ute: Intraperitoneal injection | |
| | say Species: Mous Application Ro Method: OEC | e ute: Ingestion) Test Guideline 488 | S- |
| | 04.04.2023 an-2-ol: otoxicity in vitro otoxicity in vivo abicyclo[4.1.0]hept-3 otoxicity in vitro | 04.04.2023 1497010-00021 Application Ro Result: negative an-2-ol: atoxicity in vitro : Test Type: Bac Result: negative rest Type: In verset abtoxicity in vivo : Test Type: Mac cytogenetic as: Species: Mous Application Ro Result: negative abicyclo[4.1.0]hept-3-ylmethyl 7-oxabicyco atoxicity in vitro : Test Type: Bac Method: OECE Result: negative abicyclo[4.1.0]hept-3-ylmethyl 7-oxabicyco atoxicity in vitro : : Test Type: Bac Method: OECE Result: positive Test Type: In verse malian cells Result: positive Test Type: In verse malian cells Result: positive Test Type: Not thesis in mamma Result: positive atoxicity in vivo : : Test Type: Uns mammalian live Species: Rat< | 04.04.2023 1497010-00021 Date of first issue: 29.03.2017 Application Route: Ingestion Result: negative Application Route: Ingestion Result: negative an-2-ol: Test Type: Bacterial reverse mutation assay (AMES) Result: negative totoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative totoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vicytogenetic assay) Species: Mouse Application Route: Intraperitoneal injection Result: negative abicyclo[4.1.0]hept-3-yImethyl T-oxabicyclo[4.1.0]heptane-3-carboxylate: totxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: positive abicyclo[4.1.0]hept-3-yImethyl T-oxabicyclo[4.1.0]heptane-3-carboxylate: totxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: positive Test Type: In vitro mammalian cell gene mutation test Result: positive Test Type: In vitro sister chromatid exchange assay in mar malian cells Result: positive test Type: DNA damage and repair, unscheduled DNA synthesis (UDS) test with mammalian liver cells in vivo Species: Rat Application Route: Ingestion Method: OECD Test Guideline 486 Result: negative test Type: Micronucleus test Species: Mouse Application Route: Intraperitoneal injection Result: negative Test Type: Micronucleus test Species: Mouse Application Route: Intraperitoneal injection Result: negative |



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|----------------|--------------------------------|---|---|---|
| Germ sessm | cell mutagenicity- As- nent | : | Positive result(s) genicity tests. | from in vivo mammalian somatic cell muta- |
| lverm | ectin: | | | |
| Genot | oxicity in vitro | : | Test Type: Bacte Result: negative | rial reverse mutation assay (AMES) |
| | | | thesis in mamma | damage and repair, unscheduled DNA syn- lian cells (in vitro) nan diploid fibroblasts |
| | | | Test Type: Mouse Result: negative | e Lymphoma |
| 2.6-Di | -tert-butyl-p-cresol: | | | |
| | oxicity in vitro | : | Test Type: Bacte Result: negative | rial reverse mutation assay (AMES) |
| | | | Test Type: In vitre Result: negative | o mammalian cell gene mutation test |
| | | | Test Type: Chron Result: negative | nosome aberration test in vitro |
| Genot | oxicity in vivo | : | | genicity (in vivo mammalian bone-marrow chromosomal analysis) e: Ingestion |

Carcinogenicity

Not classified based on available information.

Components:

Propan-2-ol:

| Species Application Route Exposure time Method Result | : Rat |
|---|---------------------------|
| Application Route | : inhalation (vapour) |
| Exposure time | : 104 weeks |
| Method | : OECD Test Guideline 451 |
| Result | : negative |

7-Oxabicyclo[4.1.0]hept-3-ylmethyl 7-oxabicyclo[4.1.0]heptane-3-carboxylate:

| Species Application Route Exposure time Result | : Mouse |
|---|----------------|
| Application Route | : Skin contact |
| Exposure time | : 29 Months |
| Result | : negative |



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|---|---|-----------|---|--|
| Speci Applio NOAE Resu Rema | cation Route EL It arks ies cation Route EL It | | Mouse Oral 2,0 mg/kg body v negative | om similar materials |
| 2,6-D | i-tert-butyl-p-cresol: | | | |
| Speci Applio Expos Resu | cation Route sure time | : | Rat Ingestion 22 Months negative | |
| Not c | oductive toxicity lassified based on avai ponents: | lable | information. | |
| | Butoxyethoxy)ethanol | • | | |
| ' | ts on fertility | : | Species: Rat Application Route | generation reproduction toxicity study e: Ingestion fest Guideline 415 |
| Effect ment | ts on foetal develop- | : | Test Type: Embr Species: Rat Application Route Result: negative | yo-foetal development e: Ingestion |
| Prop | an-2-ol: | | | |
| | ts on fertility | : | Test Type: Two-g Species: Rat Application Route Result: negative | generation reproduction toxicity study e: Ingestion |
| Effect ment | ts on foetal develop- | : | Test Type: Embr Species: Rat Application Route Result: negative | yo-foetal development e: Ingestion |
| 11 7_0~/ | abievelo[1 1 0]boot 2 | vlmo | thyl 7-ovabiovala | [4.1.0]heptane-3-carboxylate: |
| | | ynne : | | yo-foetal development |

| Effects on foetal develop- ment | : | Test Type: Embryo-foetal development |
|------------------------------------|---|--------------------------------------|
| ment | | Species: Rat |



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| | | Application Ro Method: OECE Result: negativ |) Test Guideline 414 |
| lverm | nectin: | | |
| Effect | ts on fertility | | |
| Effects on foetal develop- ment | | Result: Teratog | e |
| | | Result: Embryo spring were de | ute: Oral I Toxicity: LOAEL: 0,4 mg/kg body weight btoxic effects and adverse effects on the off- tected. mechanism or mode of action may not be re |
| | | | it |
| | i-tert-butyl-p-cresol: | | |
| Effect | ts on fertility | : Test Type: Two Species: Rat Application Ro Result: negativ | |
| Effect ment | ts on foetal develop- | : Test Type: Em Species: Rat Application Ro Result: negativ | |

May cause drowsiness or dizziness.



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|----------------|------------------------------|---------------------------------|---|--|--|--|--|
| <u>Comp</u> | oonents: | | | | | | |
| Propa | an-2-ol: | | | | | | |
| Asses | | : May cause o | drowsiness or dizziness. | | | | |
| lverm | ectin: | | | | | | |
| | t Organs | : Central nerv | | | | | |
| Asses | ssment | : Causes dam | hage to organs. | | | | |
| STOT | - repeated exposur | e | | | | | |
| Not cl | assified based on ava | ailable information. | | | | | |
| <u>Comp</u> | oonents: | | | | | | |
| 7-0xa | abicyclo[4.1.0]hept-3 | -ylmethyl 7-oxabio | cyclo[4.1.0]heptane-3-carboxylate: | | | | |
| Expos | sure routes | : Ingestion | | | | | |
| | et Organs ssment | : nasal cavity : Shown to pr | oduce significant health effects in animals at con- | | | | |
| | | | of >10 to 100 mg/kg bw. | | | | |
| lverm | ectin: | | | | | | |
| Targe | et Organs | : Central nerv | ous system | | | | |
| Asses | ssment | | hage to organs through prolonged or repeated | | | | |
| | | exposure. | | | | | |
| 2,6-D | i-tert-butyl-p-cresol: | | | | | | |
| Asses | ssment | | 0 | | | | |
| II | | tions of 100 | mg/kg bw or less. | | | | |
| Repe | ated dose toxicity | | | | | | |
| <u>Comp</u> | oonents: | | | | | | |
| 2-(2-E | Butoxyethoxy)ethan | ol: | | | | | |
| Speci | | : Rat | | | | | |
| NOAE LOAE | | : 250 mg/kg : 1.000 mg/kg | | | | | |
| | cation Route | : Ingestion | | | | | |
| Expos | sure time | : 90 Days | | | | | |
| Metho | bd | : OECD Test | Guideline 408 | | | | |
| Speci | | : Rat | _ | | | | |
| NOAE | | : >= 0,094 mg | | | | | |
| | cation Route sure time | : inhalation (v : 90 Days | | | | | |
| Metho | | | : OECD Test Guideline 413 | | | | |
| Speci | | : Rat | _ | | | | |
| NOAE | | : >= 2.000 mg | | | | | |
| Applic | cation Route | : Skin contact | | | | | |



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| Exposure time | | : 90 Days | |
| Propan-2-ol: Species NOAEL Application Route Exposure time | | : Rat : 12,5 mg/l : inhalation (va : 104 Weeks | apour) |
| | | | yclo[4.1.0]heptane-3-carboxylate: |
| Species NOAEL LOAEL Application Route Exposure time Method | | : Rat : 5 mg/kg : 50 mg/kg : Ingestion : 90 Days : OECD Test 0 | Guideline 408 |
| lverm | ectin: | | |
| Expos | EL EL cation Route sure time ot Organs | Dog 0,5 mg/kg 1 mg/kg Oral 14 Weeks Central nerve Dilatation of | ous system the pupil, Tremors, Lack of coordination, anorexia |
| Species NOAEL Application Route Exposure time Remarks | | : Monkey : 1,2 mg/kg : Oral : 2 Weeks : No significan | t adverse effects were reported |
| Species NOAEL LOAEL Application Route Exposure time Target Organs | | : Rat : 0,4 mg/kg : 0,8 mg/kg : Oral : 3 Months : spleen, Bone | e marrow, Kidney |
| 2,6-D | i-tert-butyl-p-cresol: | | |
| Species NOAEL Application Route Exposure time | | : Rat : 25 mg/kg : Ingestion : 22 Months | |

Aspiration toxicity

Not classified based on available information.



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11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment

: 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.

Experience with human exposure

Components:

Ivermectin:

| Skin contact | : Remarks: Can be absorbed through skin. |
|--------------|---|
| Eye contact | : Remarks: May irritate eyes. |
| Ingestion | : Symptoms: Drowsiness, Dilatation of the pupil, Tremors, Vom- iting, anorexia, Lack of coordination |

SECTION 12: Ecological information

12.1 Toxicity

Components:

2-(2-Butoxyethoxy)ethanol:

| Toxicity to fish | | LC50 (Lepomis macrochirus (Bluegill sunfish)): 1.300 mg/l Exposure time: 96 h |
|---|---|--|
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 |
| Toxicity to algae/aquatic plants | | ErC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l Exposure time: 96 h Method: OECD Test Guideline 201 |
| | | NOEC (Desmodesmus subspicatus (green algae)): >= 100 mg/l Exposure time: 96 h Method: OECD Test Guideline 201 |
| Toxicity to microorganisms | : | EC10 : > 1.995 mg/l Exposure time: 30 min |
| Propan-2-ol: | | |
| Toxicity to fish | : | LC50 (Pimephales promelas (fathead minnow)): 9.640 mg/l Exposure time: 96 h |



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| Toxicity to daphnia and other aquatic invertebrates | | : | EC50 (Daphnia m Exposure time: 24 | agna (Water flea)): > 10.000 mg/l h |
| Toxicity | to microorganisms | : | EC50 (Pseudomo Exposure time: 16 | nas putida): > 1.050 mg/l 3 h |
| 7-Oxah | vicyclo[4 1 0]bent-3-vl | lme | thyl 7-oxabicyclol | 4.1.0]heptane-3-carboxylate: |
| Toxicity | | : | | hus mykiss (rainbow trout)): 24 mg/l |
| | v to daphnia and other invertebrates | : | EC50 (Daphnia m Exposure time: 48 Method: OECD Te | |
| Toxicity plants | ∕ to algae/aquatic | : | ErC50 (Raphidoce 110 mg/l Exposure time: 72 Method: OECD Te | |
| | | | NOEC (Raphidoco mg/l Exposure time: 72 Method: OECD Te | |
| Toxicity | to microorganisms | : | EC10 (activated s Exposure time: 3 Method: OECD Te | h |
| Iverme | ctin: | | | |
| Toxicity | | : | LC50 (Oncorhync Exposure time: 96 | hus mykiss (rainbow trout)): 0,003 mg/l 3 h |
| | | | LC50 (Lepomis m Exposure time: 96 | acrochirus (Bluegill sunfish)): 0,0048 mg/l 3 h |
| | v to daphnia and other invertebrates | : | EC50 (Daphnia m Exposure time: 48 | agna (Water flea)): 0,000025 mg/l 3 h |
| Toxicity plants | ∕ to algae/aquatic | : | EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD Te | |
| | | | NOEC (Pseudokir mg/l Exposure time: 72 Method: OECD Te | |
| M-Facto icity) | or (Acute aquatic tox- | : | 10.000 | |



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| | | | | | | |
| M-Fac toxicit | ctor (Chronic aquatic y) | : | 10.000 | | | |
| 2,6-Di | -tert-butyl-p-cresol: | | | | | |
| Toxicity to fish | | : | Exposure time: 96 | LC50 (Danio rerio (zebra fish)): > 0,57 mg/l Exposure time: 96 h Method: Directive 67/548/EEC, Annex V, C.1. | | |
| | ty to daphnia and other ic invertebrates | : | EC50 (Daphnia magna (Water flea)): 0,48 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 | | | |
| | Toxicity to algae/aquatic plants | | ErC50 (Pseudokirchneriella subcapitata (green algae)): > 0,24 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 | | | |
| | | | NOEC (Pseudokir mg/l Exposure time: 72 Method: OECD Te | | | |
| M-Fac icity) | ctor (Acute aquatic tox- | : | 1 | | | |
| Toxici | ty to microorganisms | : | EC50 : > 10.000 r Exposure time: 3 Method: OECD Te | h | | |
| Toxici icity) | ty to fish (Chronic tox- | : | Exposure time: 30 |) d latipes (Japanese medaka) | | |
| | ty to daphnia and other ic invertebrates (Chron- city) | : | Exposure time: 21 | | | |
| M-Fac toxicit | ctor (Chronic aquatic y) | : | 1 | | | |
| 12.2 Persis | 12.2 Persistence and degradabili | | | | | |
| <u>Comp</u> | oonents: | | | | | |
| 2-(2-B | Sutoxyethoxy)ethanol: | | | | | |
| • | gradability | : | Result: Readily bi Biodegradation: 8 Exposure time: 28 Method: OECD Te | 35 % | | |

Propan-2-ol:



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| Biodegradability | | : | Result: rapidly de | gradable |
| BOD/COD | | : | BOD: 1.19 (BOD COD: 2.23 BOD/COD: 53 % | 5) |
| 7-Oxabicyclo[4.1.0]hept-3-yl Biodegradability | | /Ime : | Result: Not readil Biodegradation: Exposure time: 28 | 71 % |
| lverm | ectin: | | | |
| Biode | gradability | : | Result: Not readil Biodegradation: Exposure time: 24 | 50 % |
| 2.6-Di | -tert-butyl-p-cresol: | | | |
| | gradability | : | Result: Not readil Biodegradation: Exposure time: 28 Method: OECD T | 4,5 % |
| 12.3 Bioac | cumulative potential | | | |
| Comp | onents: | | | |
| 2-(2-B | utoxyethoxy)ethanol: | | | |
| • | on coefficient: n- | | log Pow: 1 | |
| Propa | in-2-ol: | | | |
| Partitio | on coefficient: n- bl/water | : | log Pow: 0,05 | |
| 7-Oxa | bicyclo[4.1.0]hept-3-y | /Ime | thyl 7-oxabicyclo | [4.1.0]heptane-3-carboxylate: |
| | on coefficient: n- bl/water | : | log Pow: 1,34 Method: OECD T | est Guideline 107 |
| lverm | ectin: | | | |
| Bioaco | cumulation | : | Bioconcentration | factor (BCF): 74 |
| | on coefficient: n- bl/water | : | log Pow: 3,22 | |
| 2,6-Di | -tert-butyl-p-cresol: | | | |
| Bioaco | cumulation | : | Species: Cyprinus Bioconcentration | s carpio (Carp) factor (BCF): 330 - 1.800 |
| Partitio | on coefficient: n- | : | log Pow: 5,1 | |
| | | | / | |



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| octano | ol/water | | |

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment

: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

Product:

Assessment

: 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.

12.7 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

| Product | : | Dispose of in accordance with local regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities. Do not dispose of waste into sewer. | | |
|------------------------|---|---|--|--|
| Contaminated packaging | : | Empty containers should be taken to an approved waste han- dling site for recycling or disposal. Empty containers retain residue and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or ex- pose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury and/or death. If not otherwise specified: Dispose of as unused product. | | |

SECTION 14: Transport information

14.1 UN number or ID number

| ADN | : | UN 1993 |
|-----|---|---------|
| ADR | : | UN 1993 |
| RID | : | UN 1993 |



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|-------------|------------------------------------|--|------------------------------|---|---|--|--|
| | IMDG IATA | | : | UN 1993 UN 1993 | | | |
| 14.2 | UN pro | oper shipping name | | | | | |
| | ADN | | : | FLAMMABLE LIC (Propan-2-ol) | QUID, N.O.S. | | |
| | ADR | | : | FLAMMABLE LIC (Propan-2-ol) | QUID, N.O.S. | | |
| | RID | | : | FLAMMABLE LIQUID, N.O.S. (Propan-2-ol) | | | |
| | IMDG | | : | FLAMMABLE LIQUID, N.O.S. (Propan-2-ol, Ivermectin, 2,6-Di-tert-butyl-p-cresol) | | | |
| | ΙΑΤΑ | | : | Flammable liquid, n.o.s. (Propan-2-ol) | | | |
| 14.3 | Transp | oort hazard class(es) | | | | | |
| | ADN | | : | 3 | | | |
| | ADR | | : | 3 | | | |
| | RID | | : | 3 | | | |
| | IMDG | | : | 3 | | | |
| | ΙΑΤΑ | | : | 3 | | | |
| 14.4 | Packir | ng group | | | | | |
| | Classifi | g group ication Code I Identification Number | : | III F1 30 3 | | | |
| | Classifi Hazard Labels | g group ication Code I Identification Number restriction code | : | III F1 30 3 (D/E) | | | |
| | Classifi | g group ication Code I Identification Number | : | III F1 30 3 | | | |
| | IMDG Packing Labels EmS C | g group ode | : | III 3 F-E, <u>S-E</u> | | | |
| | IATA (Packing | Cargo) g instruction (cargo | : | 366 | | | |



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| | |) g instruction (LQ) g group | : | Y344 III Flammable Liquid | s |
| | Packing ger airc Packing | Passenger) g instruction (passen- g instruction (LQ) g group | | 355 Y344 III Flammable Liquid | s |
| 14.5 | 14.5 Environmental hazards | | | | |
| | ADR | mentally hazardous | : | y | |
| | RID | mentally hazardous | : | yes | |
| | | pollutant | : | 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 Maritime transport in bulk according to IMO instruments

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

| REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) | : | Conditions of restriction for the fol- lowing entries should be considered: Number on list 75, 3 If you intend to use this product as tattoo ink, please contact your ven- dor. 2-(2-Butoxyethoxy)ethanol (Number on list 55) |
|--|---|--|
| REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). | : | Not applicable |
| REACH - List of substances subject to authorisation (Annex XIV) | : | Not applicable |
| Regulation (EC) No 1005/2009 on substances that de- | : | Not applicable |



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|--|--|---|----------|---|----------------------|--|--|
| Regu | the ozone layer lation (EU) 2019/1021 (recast) | on persistent organic p | oollu- : | Not applicable | | | |
| Regulation (EC) No 649/2012 of the European Parlia- : Not applicable ment and the Council concerning the export and import of dangerous chemicals | | | | | | | |
| Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. | | | | | | | |
| | | | | Quantity 1 | Quantity 2 | | |
| E1 | | ENVIRONMEN ⁻ HAZARDS | TAL | 100 t | 200 t | | |
| | | 8/EU of the European Iving dangerous subst | | and of the Counc | il on the control of | | |
| P5c | | FLĂMMABLE L | IQUIDS | 5.000 t | 50.000 t | | |

Other regulations:

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.

Young people under the age of 18 are not allowed to use or be exposed to the product professionally. Young people above the age of 15 are, however, except from this rule if the product is a necessary part of their education.

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 | | |
| H225 | : | Highly flammable liquid and vapour. |
| H300 | : | Fatal if swallowed. |
| H311 | : | Toxic in contact with skin. |
| H317 | : | May cause an allergic skin reaction. |
| H319 | : | Causes serious eye irritation. |
| H336 | : | May cause drowsiness or dizziness. |
| H341 | : | Suspected of causing genetic defects. |
| H370 | : | Causes damage to organs if swallowed. |
| H372 | : | Causes damage to organs through prolonged or repeated exposure if swallowed. |
| H373 | : | May cause damage to organs through prolonged or repeated |



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|--|---|---|---|--|
| H400 H410 H412 Full tex Acute T Aquatic Aquatic Eye Irri Flam. L Muta. Skin Se STOT F STOT S 2006/12 | xt of other abbreviati Fox. 2 Acute 2 Chronic t. .iq. ens. RE SE 5/EC | : | exposure. Very toxic to aqua Very toxic to aqua Harmful to aquati Acute toxicity Short-term (acute Long-term (chron Eye irritation Flammable liquids Germ cell mutage Skin sensitisation Specific target org Europe. Indicative | atic life. atic life with long lasting effects. c life with long lasting effects. e) aquatic hazard ic) aquatic hazard s enicity gan toxicity - repeated exposure gan toxicity - single exposure e occupational exposure limit values |
| 2006/1 2006/1 | 011-12-06-1358 5/EC / TWA 5/EC / STEL 011-12-06-1358 / | | Limit Value - eigh Short term expos | ure limit |

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 - 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



| Version | Revision Date: | SDS Number: | Date of last issue: 09.02.2023 |
|---------|----------------|---------------|---------------------------------|
| 6.0 | 04.04.2023 | 1497010-00021 | Date of first issue: 29.03.2017 |

- 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 : | Internal technical data, data from raw material SDSs, OECD |
|--------------------------------|--|
| compile the Safety Data | eChem Portal search results and European Chemicals Agen- |
| Sheet | cy, http://echa.europa.eu/ |
| Classification of the mixture: | Classification procedure: |

| Flam. Liq. 3 | H226 | Based on product data or assessment |
|-------------------|------|-------------------------------------|
| Eye Irrit. 2 | H319 | Calculation method |
| Skin Sens. 1 | H317 | Calculation method |
| Muta. 2 | H341 | Calculation method |
| STOT SE 3 | H336 | Calculation method |
| Aquatic Acute 1 | H400 | Calculation method |
| Aquatic Chronic 1 | H410 | Calculation method |

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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 is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

NO / EN