

according to the Hazardous Products Regulations

### Warfarin Formulation

| Version | Revision Date: | SDS Number:   | Date of last issue: 09/30/2023  |
|---------|----------------|---------------|---------------------------------|
| 2.3     | 09/28/2024     | 6111697-00011 | Date of first issue: 07/15/2020 |

### **SECTION 1. IDENTIFICATION**

| Product name                  | : | Warfarin Formulation |
|-------------------------------|---|----------------------|
| Other means of identification | : | No data available    |

#### Manufacturer or supplier's details

| Company name of supplier | : | Merck & Co., Inc                |
|--------------------------|---|---------------------------------|
| Address                  | : | 126 E. Lincoln Avenue           |
|                          |   | Rahway, New Jersey U.S.A. 07065 |
| Telephone                | : | 908-740-4000                    |
| Emergency telephone      | : | 1-908-423-6000                  |
| E-mail address           | : | EHSDATASTEWARD@merck.com        |
|                          |   |                                 |

### Recommended use of the chemical and restrictions on use

| Recommended use     | : | Veterinary product |
|---------------------|---|--------------------|
| Restrictions on use | : | Not applicable     |

#### **SECTION 2. HAZARDS IDENTIFICATION**

#### GHS classification in accordance with the Hazardous Products Regulations

| Combustible dust                                      | : | Category 1         |
|---|---|--------------------|
| Acute toxicity (Oral)                                 | : | Category 3         |
| Acute toxicity (Inhalation)                           | : | Category 2         |
| Acute toxicity (Dermal)                               | : | Category 4         |
| Reproductive toxicity                                 | : | Category 1A        |
| Specific target organ toxicity<br>- repeated exposure | : | Category 1 (Blood) |
|   |   |                    |

### **GHS** label elements

Hazard pictograms



Signal Word

: Danger

Hazard Statements

May form combustible dust concentrations in air.
 H301 Toxic if swallowed.
 H312 Harmful in contact with skin.
 H330 Fatal if inhaled.
 H360D May damage the unborn child.
 H372 Causes damage to organs (Blood) through prolonged or repeated exposure.

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|-------------|--|--|--|
| Preca       | autionary Statements   | P202 Do not ha<br>and understood<br>P260 Do not br<br>P264 Wash ski<br>P270 Do not ea<br>P271 Use only<br>P280 Wear pro<br>and face proted | eathe dust, fume, gas, mist, vapors or spray.<br>n thoroughly after handling.<br>at, drink or smoke when using this product.<br>outdoors or in a well-ventilated area.<br>tective gloves, protective clothing, eye protectio             |
|             |  | POISON CENT<br>P302 + P352 +<br>water. Call a do<br>P304 + P340 +<br>and keep comfo<br>CENTER.<br>P308 + P313 IF                           | P330 IF SWALLOWED: Immediately call a<br>FR. Rinse mouth.<br>P312 IF ON SKIN: Wash with plenty of soap ar<br>octor if you feel unwell.<br>P310 IF INHALED: Remove person to fresh air<br>ortable for breathing. Immediately call a POISO |
|             |  | <b>Storage:</b><br>P405 Store locl   | ked up.  |
|             |  | <b>Disposal:</b><br>P501 Dispose o<br>disposal plant.  | of contents and container to an approved waste   |
| Dust        | r <b>hazards</b><br>contact with the eyes c<br>act with dust can cause |  |  |

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

| Components                              |   |           |                       |
|---|---|-----------|-----------------------|
| Chemical name                           | Common<br>Name/Synonym  | CAS-No.   | Concentration (% w/w) |
| Petrolatum                              | White Vaseline  | 8009-03-8 | 91                    |
| Paraffin waxes and<br>Hydrocarbon waxes | No data availa-<br>ble  | 8002-74-2 | 5                     |
| Warfarin                                | 2H-1-<br>Benzopyran-2-<br>one, 4-hydroxy-<br>3-(3-oxo-1-<br>phenylbutyl)- | 81-81-2   | 2                     |
| White mineral oil (pe-<br>troleum)      | Paraffinum<br>liquidum  | 8042-47-5 | 2                     |

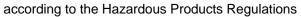
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|----------------|--|---|---|--|--|--|--|
| SECTION        | 4. FIRST AID MEASUR  | RES   |   |  |  |  |  |
| Gene           | ral advice   | advice immed  | accident or if you feel unwell, seek medical<br>liately.<br>Ins persist or in all cases of doubt seek medical   |  |  |  |  |
| lf inha        | aled   | : If inhaled, ren<br>If not breathin<br>If breathing is   | If inhaled, remove to fresh air.<br>If not breathing, give artificial respiration.<br>If breathing is difficult, give oxygen.<br>Get medical attention immediately.   |  |  |  |  |
| In cas         | In case of skin contact : In case of con<br>Remove conta<br>Get medical a<br>Wash clothing |   | ntact, immediately flush skin with plenty of water.<br>aminated clothing and shoes.   |  |  |  |  |
| In cas         | se of eye contact  | : If in eyes, rins  | If in eyes, rinse well with water.  |  |  |  |  |
| lf swa         | allowed  | <ul> <li>Get medical attention if irritation develops and persists.</li> <li>If swallowed, DO NOT induce vomiting.</li> <li>Call a physician or poison control center immediately.</li> <li>Rinse mouth thoroughly with water.</li> </ul> |   |  |  |  |  |
|                | important symptoms<br>iffects, both acute and<br>ed  | : Toxic if swall<br>Harmful in co<br>Fatal if inhale<br>May damage<br>Causes dama<br>exposure.<br>Contact with<br>the skin.   | <ul> <li>Harmful in contact with skin.</li> <li>Fatal if inhaled.</li> <li>May damage the unborn child.</li> <li>Causes damage to organs through prolonged or repeated exposure.</li> <li>Contact with dust can cause mechanical irritation or drying of the skin.</li> </ul> |  |  |  |  |
| Prote          | ction of first-aiders  | : First Aid resp<br>and use the r   | <ul> <li>Dust contact with the eyes can lead to mechanical irritation.</li> <li>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).</li> </ul>        |  |  |  |  |
| Notes          | s to physician   |   | matically and supportively.   |  |  |  |  |
| SECTION        | 5. FIRE-FIGHTING ME  | ASURES  |   |  |  |  |  |
| Suita          | ble extinguishing media  | : Water spray<br>Alcohol-resist<br>Carbon dioxic<br>Dry chemical  |   |  |  |  |  |
|                |  |   |   |  |  |  |  |

| Unsuitable extinguishing | : | High volume water jet |
|--------------------------|---|-----------------------|
| media                    |   |                       |

| Specific hazards during fire fighting | : | Avoid generating dust; fine dust dispersed in air in sufficient<br>concentrations, and in the presence of an ignition source is a<br>potential dust explosion hazard.<br>Do not use a solid water stream as it may scatter and spread<br>fire.<br>Exposure to combustion products may be a hazard to health. |
|---------------------------------------|---|--|
| Hazardous combustion prod-<br>ucts    | : | Carbon oxides<br>Sulfur oxides   |





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|----------------|---|----|--|--|--|
|                |   |    | Nitrogen oxides (N   | NOx)   |  |
| Spec<br>ods    | cific extinguishing meth-   | :  | cumstances and t<br>Use water spray t  | measures that are appropriate to local cir-<br>he surrounding environment.<br>o cool unopened containers.<br>ged containers from fire area if it is safe to do   |  |
|                | Special protective equipment for fire-fighters                    |    | In the event of fire, wear self-contained breathing apparatus.<br>Use personal protective equipment.   |  |  |
| SECTION        | N 6. ACCIDENTAL RELE  | AS | EMEASURES  |  |  |
| tive           | onal precautions, protec-<br>equipment and emer-<br>cy procedures | :  | Follow safe handl  | nel to safe areas.<br>Innel should re-enter the area.<br>Ing advice (see section 7) and personal<br>ent recommendations (see section 8).   |  |
| Envi           | ronmental precautions   | :  | Retain and dispos  | akage or spillage if safe to do so.<br>e of contaminated wash water.<br>should be advised if significant spillages   |  |
|                | Methods and materials for<br>containment and cleaning up          |    | Avoid dispersal of<br>with compressed<br>Dust deposits sho<br>surfaces, as these<br>released into the a<br>For large spills, pr<br>containment to ke<br>can be pumped, s<br>container.<br>Clean up remainin<br>absorbent.<br>Local or national r<br>disposal of this ma<br>employed in the c<br>determine which r<br>Sections 13 and 1 | absorbent material.<br>dust in the air (i.e., clearing dust surfaces<br>air).<br>und not be allowed to accumulate on<br>a may form an explosive mixture if they are<br>atmosphere in sufficient concentration.<br>ovide diking or other appropriate<br>ep material from spreading. If diked material<br>tore recovered material in appropriate<br>ng materials from spill with suitable<br>regulations may apply to releases and<br>aterial, as well as those materials and items<br>leanup of releases. You will need to<br>egulations are applicable.<br>5 of this SDS provide information regarding<br>tional requirements. |  |

### SECTION 7. HANDLING AND STORAGE

| Technical measures      | : | Static electricity may accumulate and ignite suspended dust causing an explosion. |
|-------------------------|---|---|
|                         |   | Provide adequate precautions, such as electrical grounding                        |
|                         |   | and bonding, or inert atmospheres.  |
| Local/Total ventilation | : | If sufficient ventilation is unavailable, use with local exhaust                  |
|                         |   |   |

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|----------------|------------------------------|---|---|--|--|--|
| Advi           | ce on safe handling          | <ul> <li>ventilation.</li> <li>Do not get on skin or clothing.<br/>Do not breathe dust, fume, gas, mist, vapors or spray.<br/>Do not swallow.<br/>Avoid contact with eyes.<br/>Wash skin thoroughly after handling.<br/>Handle in accordance with good industrial hygiene and s<br/>practice, based on the results of the workplace exposure<br/>assessment<br/>Keep container tightly closed.<br/>Minimize dust generation and accumulation.<br/>Keep container closed when not in use.<br/>Keep away from heat and sources of ignition.<br/>Take precautionary measures against static discharges.<br/>Do not eat, drink or smoke when using this product.<br/>Take care to prevent spills, waste and minimize release</li> </ul> |   |  |  |  |
| Cond           | litions for safe storage     | Store locked<br>Keep tightly c  |   |  |  |  |
| Mate           | rials to avoid               | Store in acco<br>Do not store v<br>Strong oxidizi<br>Self-reactive<br>Organic pero<br>Flammable lic<br>Flammable so<br>Pyrophoric lic<br>Pyrophoric so<br>Self-heating so   | rdance with the particular national regulations.<br>with the following product types:<br>ng agents<br>substances and mixtures<br>kides<br>guids<br>blids<br>uids<br>uids<br>substances and mixtures<br>nd mixtures which in contact with water emit |  |  |  |

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Ingredients with workplace control parameters

| Components | CAS-No.   | Value type<br>(Form of<br>exposure)         | Control parame-<br>ters / Permissible<br>concentration | Basis     |
|------------|-----------|---|--|-----------|
| Petrolatum | 8009-03-8 | TWA (Mist)                                  | 5 mg/m <sup>3</sup>                                    | CA AB OEL |
|            |           | STEL (Mist)                                 | 10 mg/m <sup>3</sup>                                   | CA AB OEL |
|            |           | TWAEV (Mist<br>- Inhalable<br>dust)         | 5 mg/m³  | CA QC OEL |
|            |           | TWA (Mist)                                  | 1 mg/m <sup>3</sup>                                    | CA BC OEL |
|            |           | TWA<br>(Inhalable<br>particulate<br>matter) | 5 mg/m³  | ACGIH     |



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|----------------|---------------------------------|------------------------------|---|--|-----------|
|                | ffin waxes and<br>ocarbon waxes | 8002-74-2                    | TWA<br>(Fumes)                              | 2 mg/m³                                    | CA AB OEL |
| Tryan          |                                 |                              | TWA<br>(Fumes)                              | 2 mg/m <sup>3</sup>                        | CA BC OEL |
|                |                                 |                              | TWAEV<br>(Fumes)                            | 2 mg/m <sup>3</sup>                        | CA QC OEL |
|                |                                 |                              | TWA<br>(Fumes)                              | 2 mg/m <sup>3</sup>                        | ACGIH     |
| Warfa          | arin                            | 81-81-2                      | TWA   | 0.1 mg/m <sup>3</sup>                      | CA AB OEL |
|                |                                 |                              | TWA   | 0.1 mg/m <sup>3</sup>                      | CA BC OEL |
|                |                                 |                              | TWAEV (in-<br>halable dust)                 | 0.01 mg/m <sup>3</sup>                     | CA QC OEL |
|                |                                 |                              | TWA<br>(Inhalable<br>particulate<br>matter) | 0.01 mg/m <sup>3</sup>                     | ACGIH     |
| White          | e mineral oil (petroleum)       | 8042-47-5                    | TWA (Mist)                                  | 5 mg/m <sup>3</sup>                        | CA AB OEL |
|                |                                 |                              | STEL (Mist)                                 | 10 mg/m <sup>3</sup>                       | CA AB OEL |
|                |                                 |                              | TWAEV (Mist<br>- Inhalable<br>dust)         | 5 mg/m <sup>3</sup>                        | CA QC OEL |
|                |                                 |                              | TWA (Mist)                                  | 1 mg/m <sup>3</sup>                        | CA BC OEL |
|                |                                 |                              | TWA<br>(Inhalable<br>particulate<br>matter) | 5 mg/m <sup>3</sup>                        | ACGIH     |

| Engineering measures | : All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment.<br>Containment technologies suitable for controlling compour are required to control at source and to prevent migration of the compound to uncontrolled areas (e.g., open-face containment devices). | nds |
|----------------------|--|-----|
|                      | Minimize open handling.  |     |

### Personal protective equipment

| Respiratory protection<br>Filter type<br>Hand protection |   | If adequate local exhaust ventilation is not available or<br>exposure assessment demonstrates exposures outside the<br>recommended guidelines, use respiratory protection.<br>Combined particulates and organic vapor type  |
|--|---|---|
| Material   | : | Chemical-resistant gloves   |
| Remarks<br>Eye protection<br>Skin and body protection    |   | Consider double gloving.<br>Wear safety glasses with side shields or goggles.<br>If the work environment or activity involves dusty conditions,<br>mists or aerosols, wear the appropriate goggles.<br>Wear a faceshield or other full face protection if there is a<br>potential for direct contact to the face with dusts, mists, or<br>aerosols.<br>Work uniform or laboratory coat. |

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|---------|----------------|--|---|
| 2.3     | 09/28/2024     | 6111697-00011  | Date of first issue: 07/15/2020   |
| Hygie   | ne measures    | task being perfo<br>disposable suits<br>Use appropriate<br>contaminated cl<br>: If exposure to cl<br>eye flushing sys<br>working place.<br>When using do<br>Wash contamina<br>The effective op<br>engineering con<br>appropriate deg | hemical is likely during typical use, provide<br>stems and safety showers close to the<br>not eat, drink or smoke.<br>ated clothing before re-use.<br>beration of a facility should include review of<br>strols, proper personal protective equipment,<br>owning and decontamination procedures,<br>ne monitoring, medical surveillance and the |

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

| Appearance  | : | paste  |
|---|---|--|
| Color   | : | pink   |
| Odor  | : | characteristic                                   |
| Odor Threshold                                      | : | No data available                                |
| рН  | : | No data available                                |
| Melting point/freezing point                        | : | No data available                                |
| Initial boiling point and boiling range             | : | 320 °C   |
| Flash point   | : | 178 °C   |
| Evaporation rate                                    | : | Not applicable                                   |
| Flammability (solid, gas)                           | : | May form combustible dust concentrations in air. |
| Flammability (liquids)                              | : | Not applicable                                   |
| Upper explosion limit / Upper<br>flammability limit | : | No data available                                |
| Lower explosion limit / Lower<br>flammability limit | : | No data available                                |
| Vapor pressure                                      | : | Not applicable                                   |
| Relative vapor density                              | : | Not applicable                                   |
| Relative density                                    | : | 0.80 - 0.84                                      |

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|----------------|-----------------------------------|------------------------------|---|--|
| Dens           | sity                              | : No data avail              | able  |  |
|                | bility(ies)<br>/ater solubility   | : practically ins            | soluble   |  |
|                | tion coefficient: n-<br>nol/water | : Not applicabl              | e   |  |
|                | ignition temperature              | : No data avail              | able  |  |
| Deco           | omposition temperature            | : No data avail              | able  |  |
| Visco<br>V     | osity<br>iscosity, kinematic      | : Not applicabl              | e   |  |
| Expl           | osive properties                  | : Not explosive              |   |  |
| Oxid           | izing properties                  | : The substance              | e or mixture is not classified as oxidizing                       |  |
| Mole           | cular weight                      | : No data avail              | able  |  |
|                | cle characteristics<br>cle size   | : No data avail              | able  |  |

#### SECTION 10. STABILITY AND REACTIVITY

| Reactivity<br>Chemical stability<br>Possibility of hazardous reac-<br>tions | : | Not classified as a reactivity hazard.<br>Stable under normal conditions.<br>May form combustible dust concentrations in air.<br>Can react with strong oxidizing agents. |
|---|---|--|
| Conditions to avoid   | : | Heat, flames and sparks.<br>Avoid dust formation.  |
| Incompatible materials<br>Hazardous decomposition                           | : | Oxidizing agents<br>No hazardous decomposition products are known.   |
| products  | • | ·····  |

### SECTION 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

Inhalation Skin contact Ingestion Eye contact

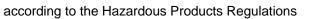
### Acute toxicity

Toxic if swallowed. Harmful in contact with skin. Fatal if inhaled.

#### Product:

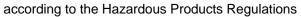
Acute oral toxicity

: Acute toxicity estimate: 281 mg/kg Method: Calculation method



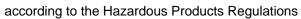


| ersion<br>.3 | Revision Date:<br>09/28/2024 |              | Number:<br>697-00011         | Date of last issue: 09/30/2023<br>Date of first issue: 07/15/2020  |
|--------------|------------------------------|--------------|------------------------------|--|
| Acute        | inhalation toxicity          | E            | xposure time<br>est atmosphe | estimate: 0.25 mg/l<br>: 4 h<br>ere: dust/mist<br>llation method   |
| Acute        | e dermal toxicity            |              |                              | estimate: 2,000 mg/kg<br>lation method   |
| <u>Com</u>   | ponents:                     |              |                              |  |
| Petro        | olatum:                      |              |                              |  |
| Acute        | e oral toxicity              | N            |                              | 5,000 mg/kg<br>D Test Guideline 401<br>ed on data from similar materials   |
| Acute        | e dermal toxicity            | N<br>⊅<br>to | ssessment: 7<br>oxicity      | 2,000 mg/kg<br>D Test Guideline 402<br>The substance or mixture has no acute dermal<br>ed on data from similar materials |
| Paraf        | ffin waxes and Hydro         | carbon       | waxes:                       |  |
| Acute        | e oral toxicity              |              | D50 (Rat): ><br>lethod: OEC[ | 5,000 mg/kg<br>D Test Guideline 420  |
| Acute        | e dermal toxicity            | N<br>A       | lethod: OEC                  | : > 3,600 mg/kg<br>D Test Guideline 402<br>The substance or mixture has no acute dermal                                  |
| Warfa        | arin:                        |              |                              |  |
|              | e oral toxicity              | : L          | D50 (Rat): 5.                | 62 mg/kg   |
| Acute        | e inhalation toxicity        | E            | xposure time                 | 0.001 - 0.005 mg/l<br>: 4 h<br>ere: dust/mist  |
| Acute        | e dermal toxicity            | : L          | D50 (Rat): 40                | ) mg/kg  |
| White        | e mineral oil (petrole       | um):         |                              |  |
|              | e oral toxicity              |              | D50 (Rat): >                 | 5,000 mg/kg  |
| Acute        | e inhalation toxicity        | E<br>T<br>A  |                              |  |
| Acute        | e dermal toxicity            |              |                              | : > 2,000 mg/kg<br>The substance or mixture has no acute derma   |



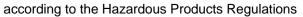


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|---|-------------|------------------------------|-------------|---------------------------|---|
| Not classified based on available information.<br>Components:<br>Petrolatum:<br>Species   |             |                              |             | toxicity                  |   |
| Components:         Petrolatum:         Species       : Rabbit         Method       : OECD Test Guideline 404         Result       : Westin irritation         Remarks       : Based on data from similar materials         Paraffin waxes and Hydrocarbon waxes:         Species       : Rabbit         Method       : OECD Test Guideline 404         Result       : No skin irritation         White mineral oil (petroleum):       Species         Species       : Rabbit         Result       : No skin irritation         Serious eye damage/eye irritation       Species         Species       : Rabbit         Result       : OECD Test Guideline 405         Result       : OECD Test Guideline 405         Result       : OECD Test Guideline 405         Result                                      | Skin        | corrosion/irritation         |             |                           |   |
| Components:         Petrolatum:         Species       : Rabbit         Method       : OECD Test Guideline 404         Result       : Westin irritation         Remarks       : Based on data from similar materials         Paraffin waxes and Hydrocarbon waxes:         Species       : Rabbit         Method       : OECD Test Guideline 404         Result       : No skin irritation         White mineral oil (petroleum):       Species         Species       : Rabbit         Result       : No skin irritation         Serious eye damage/eye irritation       Species         Species       : Rabbit         Result       : OECD Test Guideline 405         Result       : OECD Test Guideline 405         Result       : OECD Test Guideline 405         Result                                      | Not cl      | assified based on av         | ailable     | information.              |   |
| Petrolatum:         Species       : Rabbit         Method       : OECD Test Guideline 404         Result       : No skin irritation         Remarks       : Based on data from similar materials         Paraffin waxes and Hydrocarbon waxes:         Species       : Rabbit         Method       : OECD Test Guideline 404         Result       : No skin irritation         Warfarin:       : Species         Species       : Rabbit         Method       : OECD Test Guideline 404         Result       : No skin irritation         Warfarin:       : OECD Test Guideline 404         Result       : OECD Test Guideline 404         Result       : OECD Test Guideline 404         Result       : No skin irritation         White mineral oil (petroleum):       Species         Species       : Rabbit         Result       : No skin irritation         Serious eye damage/eye irritation       .         Not classified based on available information.       .         Species       : Rabbit         Result       : OECD Test Guideline 405         Remarks       : DECD Test Guideline 405         Remarks       : Based on data from similar materials                                    |             |                              |             |                           |   |
| Method       : OECD Test Guideline 404         Result       : No skin irritation         Remarks       : Based on data from similar materials         Paraffin waxes and Hydrocarbon waxes:         Species       : Rabbit         Method       : OECD Test Guideline 404         Result       : No skin irritation         Warfarin:       :         Species       : Rabbit         Method       : OECD Test Guideline 404         Result       : No skin irritation         Warfarin:       :         Species       : Rabbit         Method       : OECD Test Guideline 404         Result       : No skin irritation         White mineral oil (petroleum):       :         Species       : Rabbit         Result       : No skin irritation         Serious eye damage/eye irritation       :         Not classified based on available information.       :         Components:       :         Petrolatum:       :         Species       : Rabbit         Result       : No eye irritation         Method       : OECD Test Guideline 405         Remarks       : Based on data from similar materials         Paraffin waxes and Hydrocarbon waxes:  |             |                              |             |                           |   |
| Method       : OECD Test Guideline 404         Result       : No skin irritation         Remarks       : Based on data from similar materials         Paraffin waxes and Hydrocarbon waxes:         Species       : Rabbit         Method       : OECD Test Guideline 404         Result       : No skin irritation         Warfarin:       :         Species       : Rabbit         Method       : OECD Test Guideline 404         Result       : No skin irritation         Warfarin:       :         Species       : Rabbit         Method       : OECD Test Guideline 404         Result       : No skin irritation         White mineral oil (petroleum):       :         Species       : Rabbit         Result       : No skin irritation         Serious eye damage/eye irritation       :         Not classified based on available information.       :         Components:       :         Petrolatum:       :         Species       : Rabbit         Result       : No eye irritation         Method       : OECD Test Guideline 405         Remarks       : Based on data from similar materials         Paraffin waxes and Hydrocarbon waxes:  | Speci       | es                           |             | Rabhit                    |   |
| Result       : No skin irritation         Remarks       : Based on data from similar materials         Paraffin waxes and Hydrocarbon waxes:         Species       : Rabbit         Method       : OECD Test Guideline 404         Result       : No skin irritation         Warfarin:       :         Species       : Rabbit         Method       : OECD Test Guideline 404         Result       : No skin irritation         Warfarin:       :         Species       : Rabbit         Method       : OECD Test Guideline 404         Result       : No skin irritation         White mineral oil (petroleum):       :         Species       : Rabbit         Result       : No skin irritation         Serious eye damage/eye irritation       :         Not classified based on available information.       :         Components:       :         Petrolatum:       :         Species       : Rabbit         Result       : OECD Test Guideline 405         Remarks       : Based on data from similar materials         Paraffin waxes and Hydrocarbon waxes:       :         Species       : Rabbit         Result       : OECD Test Guidel   |             |                              | ÷           |                           | deline 404  |
| Paraffin waxes and Hydrocarbon waxes:         Species       :       Rabbit         Method       :       OECD Test Guideline 404         Result       :       No skin irritation         Marfarin:       :       Species       :         Species       :       Rabbit         Method       :       OECD Test Guideline 404         Result       :       OECD Test Guideline 404         Result       :       No skin irritation         White mineral oil (petroleum):       :       No skin irritation         Species       :       Rabbit         Result       :       No skin irritation         Species       :       Rabbit         Result       :       No skin irritation         Species       :       Rabbit         Result       :       No eyei irritation         Method       :       OECD Test Guideline 405         Result       :       OECD Test Guideline 405         Result       :       OECD Test Guideline 405         Result       :       OECD Test Guideline 405         Method       :       OECD Test Guideline 405         Result       :       No eyei irritation  | Resul       | lt                           | :           | No skin irritation        | 1   |
| Species       : Rabbit         Method       :: OECD Test Guideline 404         Result       :: No skin irritation         Warfarin:       :         Species       : Rabbit         Method       :: OECD Test Guideline 404         Result       :: OECD Test Guideline 404         Result       :: OECD Test Guideline 404         Result       :: No skin irritation         White mineral oil (petroleum):       : No skin irritation         Species       :: Rabbit         Result       :: No skin irritation         Serious eye damage/eye irritation       .         Not classified based on available information.       .         Components:       .         Petrolatum:       .         Species       : Rabbit         Result       : No eye irritation         Method       : OECD Test Guideline 405         Remarks       : Based on data from similar materials         Paraffin waxes and Hydrocarbon waxes:         Species       : Rabbit         Result       : No eye irritation         Method       : OECD Test Guideline 405         Result       : No eye irritation         Method       : OECD Test Guideline 405         Warfa  | Rema        | arks                         | :           | Based on data f           | rom similar materials   |
| Species       : Rabbit         Method       :: OECD Test Guideline 404         Result       :: No skin irritation         Warfarin:       :         Species       : Rabbit         Method       :: OECD Test Guideline 404         Result       :: OECD Test Guideline 404         Result       :: OECD Test Guideline 404         Result       :: No skin irritation         White mineral oil (petroleum):       : No skin irritation         Species       :: Rabbit         Result       :: No skin irritation         Serious eye damage/eye irritation       .         Not classified based on available information.       .         Components:       .         Petrolatum:       .         Species       : Rabbit         Result       : No eye irritation         Method       : OECD Test Guideline 405         Remarks       : Based on data from similar materials         Paraffin waxes and Hydrocarbon waxes:         Species       : Rabbit         Result       : No eye irritation         Method       : OECD Test Guideline 405         Result       : No eye irritation         Method       : OECD Test Guideline 405         Warfa  | Paraf       | fin waxes and Hvdr           | ocarbo      | on waxes:                 |   |
| Method       : OECD Test Guideline 404         Result       : No skin irritation         Warfarin:  |             | -                            |             |                           |   |
| Result       : No skin irritation         Warfarin:         Species       : Rabbit         Method       : OECD Test Guideline 404         Result       : No skin irritation         White mineral oil (petroleum):         Species       : Rabbit         Result       : No skin irritation         White mineral oil (petroleum):         Species       : Rabbit         Result       : No skin irritation         Serious eye damage/eye irritation         Not classified based on available information.         Components:         Petrolatum:         Species       : Rabbit         Result       : No eye irritation         Method       : OECD Test Guideline 405         Remarks       : Based on data from similar materials         Paraffin waxes and Hydrocarbor waxes:         Species       : Rabbit         Result       : No eye irritation         Method       : OECD Test Guideline 405         Result       : No eye irritation         Method       : OECD Test Guideline 405         Xurfarin:       : No eye irritation         Method       : OECD Test Guideline 405         Warfarin:       : No eye irritation to eyes, reversing within 7 days                           |             |                              | :           |                           | deline 404  |
| Species : Rabbit   Method : OECD Test Guideline 404   Result : No skin irritation   White mineral oil (petroleum):   Species : Rabbit   Result : No skin irritation   Serious eye damage/eye irritation   Not classified based on available information.   Components:   Petrolatum:   Species :   Result :   Not classified based on available information.   Components:   Petrolatum:   Species :   Result :   No eye irritation   Method :   OECD Test Guideline 405   Remarks :   Based on data from similar materials   Paraffin waxes and Hydrocarbon waxes:   Species :   Result :   No eye irritation   Method :   OECD Test Guideline 405   Result :   No is opeic irritation   Method :   OECD Test Guideline 405   Warfarin:   Species   Species   Result   :   Not opeic irritation   Method   :   :   :   :   :   :   :   :   :   :   :   :   :   :   :   :   : <tr< td=""><td></td><td></td><td>:</td><td></td><td></td></tr<>   |             |                              | :           |                           |   |
| Method       : OECD Test Guideline 404         Result       : No skin irritation         White mineral oil (petroleum):       Species         Species       : Rabbit         Result       : No skin irritation         Serious eye damage/eye irritation         Not classified based on available information.         Components:         Petrolatum:         Species       : Rabbit         Result       : No eye irritation         Method       : OECD Test Guideline 405         Remarks       : Based on data from similar materials         Paraffin waxes and Hydrocarbon waxes:         Species       : Rabbit         Result       : No eye irritation         Method       : OECD Test Guideline 405         Remarks       : Based on data from similar materials         Paraffin waxes and Hydrocarbon waxes:         Species       : Rabbit         Result       : OECD Test Guideline 405         Warfarin:       :         Species       : Rabbit         Result       : OECD Test Guideline 405         Warfarin:       :         Species       : Rabbit         Result       : Irritation to eyes, reversing within 7 days         White mineral                                     | Warfa       | arin:                        |             |                           |   |
| Method       : OECD Test Guideline 404         Result       : No skin irritation         White mineral oil (petroleum):       Species         Species       : Rabbit         Result       : No skin irritation         Serious eye damage/eye irritation         Not classified based on available information.         Components:         Petrolatum:         Species       : Rabbit         Result       : No eye irritation         Method       : OECD Test Guideline 405         Remarks       : Based on data from similar materials         Paraffin waxes and Hydrocarbon waxes:         Species       : Rabbit         Result       : No eye irritation         Method       : OECD Test Guideline 405         Remarks       : Based on data from similar materials         Paraffin waxes and Hydrocarbon waxes:         Species       : Rabbit         Result       : OECD Test Guideline 405         Warfarin:       :         Species       : Rabbit         Result       : OECD Test Guideline 405         Warfarin:       :         Species       : Rabbit         Result       : Irritation to eyes, reversing within 7 days         White mineral                                     | Speci       | es                           |             | Rabbit                    |   |
| Result       : No skin irritation         White mineral oil (petroleum):         Species       : Rabbit         Result       : No skin irritation         Serious eye damage/eye irritation         Not classified based on available information.         Components:         Petrolatum:         Species       : Rabbit         Result       : No eye irritation         Method       : OECD Test Guideline 405         Remarks       : Based on data from similar materials         Paraffin waxes and Hydrocarbon waxes:         Species       : Rabbit         Result       : No eye irritation         Method       : OECD Test Guideline 405         Remarks       : Based on data from similar materials         Paraffin waxes and Hydrocarbon waxes:         Species       : Rabbit         Result       : OECD Test Guideline 405         Watfarin:       : OECD Test Guideline 405         Warfarin:       : OECD Test Guideline 405         Species       : Rabbit         Result       : OECD Test Guideline 405         Watfarin:       : OECD Test Guideline 405         Watfarin:       : OECD Test Guideline 405         Watfarin:       : Irritation to eyes, reversing within 7 day | •           |                              | ÷           |                           | deline 404  |
| Species       : Rabbit         Result       : No skin irritation         Serious eye damage/eye irritation         Not classified based on available information.         Components:         Petrolatum:         Species       : Rabbit         Result       : No eye irritation         Method       : OECD Test Guideline 405         Remarks       : Based on data from similar materials         Paraffin waxes and Hydrocarbon waxes:         Species       : Rabbit         Result       : No eye irritation         Method       : OECD Test Guideline 405         Remarks       : Based on data from similar materials         Paraffin waxes and Hydrocarbon waxes:         Species       : Rabbit         Result       : OECD Test Guideline 405         Method       : OECD Test Guideline 405         Warfarin:       : OECD Test Guideline 405         Species       : Rabbit         Result       : Irritation to eyes, reversing within 7 days         White mineral oil (petroleum):       : White mineral oil (petroleum):  |             |                              | :           |                           |   |
| Not classified based on available information.         Components:         Petrolatum:         Species       :         Result       :         No eye irritation         Method       :         Method       :         OECD Test Guideline 405         Remarks       :         Based on data from similar materials         Paraffin waxes and Hydrocarbon waxes:         Species       :         Result       :         No eye irritation         Method       :         Varfarin:         Species       :         Species       :         Result       :         OECD Test Guideline 405         Warfarin:         Species       :         Species       :         Species       :         Method       :         OECD Test Guideline 405         Warfarin:       :         Species       :         Species       :         Result       :         Irritation to eyes, reversing within 7 days         White mineral oil (petroleum):  | Speci       | es                           | :<br>:<br>: |                           | 1   |
| Not classified based on available information.         Components:         Petrolatum:         Species       :         Result       :         No eye irritation         Method       :         Method       :         OECD Test Guideline 405         Remarks       :         Based on data from similar materials         Paraffin waxes and Hydrocarbon waxes:         Species       :         Result       :         No eye irritation         Method       :         Varfarin:         Species       :         Species       :         Result       :         Varfarin:         Species       :         Species       :         Result       :         Irritation to eyes, reversing within 7 days         White mineral oil (petroleum):   | Serio       | us eye damage/eye            | irritati    | on                        |   |
| Petrolatum:         Species       : Rabbit         Result       : No eye irritation         Method       : OECD Test Guideline 405         Remarks       : Based on data from similar materials         Paraffin waxes and Hydrocarbon waxes:         Species       : Rabbit         Result       : No eye irritation         Method       : OECD Test Guideline 405         Result       : No eye irritation         Method       : OECD Test Guideline 405         Warfarin:       : OECD Test Guideline 405         Species       : Rabbit         Result       : OECD Test Guideline 405         Warfarin:       : OECD Test Guideline 405         Species       : Rabbit         Result       : Irritation to eyes, reversing within 7 days         White mineral oil (petroleum):       : Irritation to eyes, reversing within 7 days   |             |                              |             |                           |   |
| Species       : Rabbit         Result       : No eye irritation         Method       : OECD Test Guideline 405         Remarks       : Based on data from similar materials         Paraffin waxes and Hydrocarbon waxes:         Species       : Rabbit         Result       : No eye irritation         Method       : OECD Test Guideline 405         Result       : No eye irritation         Method       : OECD Test Guideline 405         Warfarin:       : OECD Test Guideline 405         Species       : Rabbit         Result       : OECD Test Guideline 405         Warfarin:       : OECD Test Guideline 405         Species       : Irritation to eyes, reversing within 7 days         White mineral oil (petroleum):       : Irritation to eyes, reversing within 7 days   | <u>Com</u>  | oonents:                     |             |                           |   |
| Result       : No eye irritation         Method       : OECD Test Guideline 405         Remarks       : Based on data from similar materials         Paraffin waxes and Hydrocarbon waxes:         Species       : Rabbit         Result       : No eye irritation         Method       : OECD Test Guideline 405         Warfarin:       : OECD Test Guideline 405         Species       : Rabbit         Result       : OECD Test Guideline 405         Warfarin:       : OECD Test Guideline 405         Warfarin:       : Irritation to eyes, reversing within 7 days         White mineral oil (petroleum):       : Irritation to eyes, reversing within 7 days  | Petro       | latum:                       |             |                           |   |
| Method       : OECD Test Guideline 405         Remarks       : Based on data from similar materials         Paraffin waxes and Hydrocarbon waxes:         Species       : Rabbit         Result       : No eye irritation         Method       : OECD Test Guideline 405         Warfarin:       : OECD Test Guideline 405         Species       : Rabbit         Result       : OECD Test Guideline 405         Warfarin:       : OECD Test Guideline 405         Species       : Rabbit         Result       : Irritation to eyes, reversing within 7 days         White mineral oil (petroleum):   | •           |                              | :           |                           |   |
| Remarks       : Based on data from similar materials         Paraffin waxes and Hydrocarbon waxes:         Species       : Rabbit         Result       : No eye irritation         Method       : OECD Test Guideline 405         Warfarin:       :         Species       : Rabbit         Result       : Irritation to eyes, reversing within 7 days         White mineral oil (petroleum):       :  |             |                              | :           |                           |   |
| Paraffin waxes and Hydrocarbon waxes:Species:RabbitResult:No eye irritationMethod:OECD Test Guideline 405Warfarin:Species:RabbitResult:Irritation to eyes, reversing within 7 daysWhite mineral oil (petroleum)::   |             |                              | :           |                           |   |
| Species       :       Rabbit         Result       :       No eye irritation         Method       :       OECD Test Guideline 405         Warfarin:         Species       :         Result       :       Rabbit         Result       :       Irritation to eyes, reversing within 7 days         White mineral oil (petroleum):       :       :  | Rema        | arks                         | :           | Based on data f           | rom similar materials   |
| Result       :       No eye irritation         Method       :       OECD Test Guideline 405         Warfarin:   | Paraf       | fin waxes and Hydro          | ocarbo      | on waxes:                 |   |
| Method       :       OECD Test Guideline 405         Warfarin:  |             |                              | :           |                           |   |
| Warfarin:         Species       : Rabbit         Result       : Irritation to eyes, reversing within 7 days         White mineral oil (petroleum):  |             |                              | :           |                           |   |
| Species       :       Rabbit         Result       :       Irritation to eyes, reversing within 7 days         White mineral oil (petroleum):  | Metho       | bd                           | :           | OECD Test Gui             | deline 405  |
| Result       : Irritation to eyes, reversing within 7 days         White mineral oil (petroleum):   | Warfa       | arin:                        |             |                           |   |
| White mineral oil (petroleum):  |             |                              | :           |                           |   |
|   | Resul       | lt                           | :           | Irritation to eyes        | s, reversing within 7 days  |
| Species : Rabbit  | White       | e mineral oil (petrole       | eum):       |                           |   |
|   | Speci       | es                           | :           | Rabbit                    |   |





| rsion           | Revision Date:<br>09/28/2024 |              | lumber:<br>97-00011        | Date of last issue: 09/30/2023<br>Date of first issue: 07/15/2020 |
|-----------------|------------------------------|--------------|----------------------------|---|
| Resul           | t                            | : No         | eye irritation             |   |
| Respi           | ratory or skin sens          | itization    |                            |   |
| Skin s          | sensitization                |              |                            |   |
|                 | assified based on av         | ailable info | rmation.                   |   |
| Respi           | ratory sensitization         | l            |                            |   |
| Not cl          | assified based on av         | ailable info | rmation.                   |   |
| Comp            | oonents:                     |              |                            |   |
| Petro           | latum:                       |              |                            |   |
| Test T          |                              |              | ehler Test                 |   |
|                 | s of exposure                |              | in contact                 |   |
| Specie<br>Resul |                              |              | linea pig                  |   |
| Resul           |                              |              | gative<br>sed on data fro  | om similar materials  |
| Roma            |                              | . Du         |                            |   |
|                 | fin waxes and Hydr           |              |                            |   |
| Test T          |                              |              | ximization Tes             | st  |
|                 | s of exposure                |              | in contact                 |   |
| Specie<br>Metho |                              |              | iinea pig<br>ECD Test Guid | leline 406  |
| Resul           |                              |              | gative                     |   |
|                 |                              |              | 5                          |   |
| Warfa           |                              |              |                            |   |
| Test T          |                              |              | aximization Tes            | st  |
| Speci           | s of exposure                | -            | in contact<br>iinea pig    |   |
| Resul           |                              |              | gative                     |   |
|                 |                              |              | <b>J</b>                   |   |
|                 | mineral oil (petrole         |              |                            |   |
| Test T          |                              |              | ehler Test                 |   |
| Speci           | s of exposure                |              | in contact<br>iinea pig    |   |
| Resul           |                              |              | gative                     |   |
|                 |                              |              |                            |   |
|                 | cell mutagenicity            | -ilabla infa |                            |   |
|                 | assified based on av         | allable into | mation.                    |   |
|                 | oonents:                     |              |                            |   |
|                 | latum:                       | _            |                            |   |
| Genot           | oxicity in vitro             |              |                            | mosome aberration test in vitro                                   |
|                 |                              |              | sult: negative             | on data from similar materials                                    |
|                 |                              |              |                            |   |
| Genot           | oxicity in vivo              |              |                            | malian erythrocyte micronucleus test (in v                        |
|                 |                              |              | ogenetic assa              | у)  |
|                 |                              | Sp           | ecies: Mouse               |   |
|                 |                              |              |                            |   |





| sion    | Revision Date:<br>09/28/2024      | SDS Nun<br>6111697-               |   |
|---------|-----------------------------------|-----------------------------------|---|
|         |                                   | Metho<br>Resu                     | cation Route: Intraperitoneal injection<br>od: OECD Test Guideline 474<br>It: negative  |
|         |                                   | Rema                              | arks: Based on data from similar materials  |
| Paraffi | in waxes and Hydro                | ocarbon wax                       | es:   |
| Genoto  | oxicity in vitro                  |                                   | Type: Chromosome aberration test in vitro<br>t: negative  |
| Genoto  | oxicity in vivo                   | cytog<br>Speci<br>Applio          | Гуре: Mammalian erythrocyte micronucleus test (in viv<br>enetic assay)<br>es: Mouse<br>cation Route: Intraperitoneal injection  |
|         |                                   |                                   | lt: negative<br>arks: Based on data from similar materials  |
| Warfa   | rin:                              |                                   |   |
| Genoto  | oxicity in vitro                  |                                   | Type: Bacterial reverse mutation assay (AMES)<br>t: equivocal   |
|         |                                   |                                   | Type: In vitro mammalian cell gene mutation test<br>t: equivocal  |
|         |                                   |                                   | Type: Chromosome aberration test in vitro<br>It: equivocal  |
| Genoto  | oxicity in vivo                   | cytog<br>Speci                    | Type: Mammalian erythrocyte micronucleus test (in viv<br>enetic assay)<br>es: Mouse<br>It: negative   |
| White   | mineral oil (petrole              | um):                              |   |
| Genote  | oxicity in vitro                  |                                   | Type: In vitro mammalian cell gene mutation test<br>t: negative   |
| Genoto  | oxicity in vivo                   | cytog<br>Speci<br>Applio<br>Metho | Гуре: Mammalian erythrocyte micronucleus test (in viv<br>enetic assay)<br>es: Mouse<br>cation Route: Intraperitoneal injection<br>od: OECD Test Guideline 474<br>lt: negative |
|         |                                   |                                   | arks: Based on data from similar materials  |
|         | ogenicity<br>Issified based on av | ailable inform                    | ation.  |
| Comp    | onents:                           |                                   |   |
| Petrol  | atum:                             |                                   |   |
| 1 01101 | S                                 | : Rat                             |   |





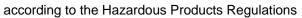
| ersion<br>3     | Revision Date:<br>09/28/2024             | SDS Number:<br>6111697-0001 | Date of last issue: 09/30/2023<br>Date of first issue: 07/15/2020 |
|-----------------|--|-----------------------------|---|
| Expos<br>Result | sure time<br>t                           | : 2 Years<br>: negative     |   |
| Paraf           | fin waxes and Hydro                      | carbon waxes:               |   |
| Specie          | es                                       | : Rat                       |   |
|                 | ation Route                              | : Ingestion                 |   |
| Expos<br>Result | sure time                                | : 2 Years                   |   |
| Resul           | L  | : negative                  |   |
| White           | mineral oil (petrole                     | um):                        |   |
| Specie          |  | : Rat                       |   |
|                 | ation Route                              | : Ingestion                 |   |
| Expos<br>Result | sure time                                | : 24 Months<br>: negative   |   |
| Resul           | L  | . negative                  |   |
| -               | oductive toxicity<br>amage the unborn ch | ild.                        |   |
| Comp            | oonents:                                 |                             |   |
| Petro           | latum:                                   |                             |   |
| Effects         | s on fertility                           | : Test Type:                | Reproduction/Developmental toxicity screenir                      |
|                 |  | test                        |   |
|                 |  | Species: Ra                 |   |
|                 |  | Application                 | Route: Ingestion  |
|                 |  | Result: neg                 | ative<br>Based on data from similar materials                     |
|                 |  | Remarks. L                  |   |
| Effects         | s on fetal developmer                    |                             | Embryo-fetal development  |
|                 |  | Species: Ra                 |   |
|                 |  | Result: neg                 | Route: Skin contact   |
|                 |  |                             | Based on data from similar materials                              |
| Danaf           |  |                             |   |
|                 | fin waxes and Hydro<br>s on fertility    |                             | Reproduction/Developmental toxicity screenir                      |
|                 |  | test                        |   |
|                 |  | Species: Ra                 |   |
|                 |  |                             | Route: Ingestion  |
|                 |  | Result: neg                 |   |
|                 |  | Remarks: E                  | Based on data from similar materials                              |
| Effects         | s on fetal developmer                    |                             | Fertility/early embryonic development                             |
|                 |  | Species: Ra                 |   |
|                 |  | Application<br>Result: neg  | Route: Skin contact   |
|                 |  |                             | Based on data from similar materials                              |
|                 |  |                             |   |
| Warfa           |  | nt : Test Type:             | Fertility/early embryonic development                             |
| Effort          | s on fetal developmer                    |                             |   |



according to the Hazardous Products Regulations

| sion           | Revision Date:<br>09/28/2024                 |      | OS Number:<br>11697-00011   | Date of last issue: 09/30/2023<br>Date of first issue: 07/15/2020     |
|----------------|--|------|---|---|
|                |  |      | Application Rou<br>Result: positive                                   | te: Ingestion   |
| Repro<br>sessn | oductive toxicity - As-<br>nent              | :    |   | ce of adverse effects on development from ological studies.           |
| White          | e mineral oil (petroleun                     | n):  |   |   |
| Effect         | s on fertility                               | :    | Test Type: One<br>Species: Rat<br>Application Rou<br>Result: negative |   |
| Effect         | s on fetal development                       | :    | Test Type: Emb<br>Species: Rat<br>Application Rou<br>Result: negative |   |
|                | -single exposure<br>assified based on availa | blo  | information   |   |
|                |  | bie  | iniornation.  |   |
|                | -repeated exposure                           | اممر | 1) through prolong  | ged or repeated exposure.   |
|                | oonents:                                     | 1000 | i) through protong  |   |
|                | fin waxes and Hydroca                        | arbo | n waxes.  |   |
|                | es of exposure                               | :    | Ingestion   |   |
|                | ssment                                       | :    | •   | ealth effects observed in animals at concen<br>/kg bw or less.        |
| Warfa          | arin:  |      |   |   |
| Route          | s of exposure                                | :    | Ingestion   |   |
| •              | t Organs<br>ssment                           | :    |   | ce significant health effects in animals at cc<br>0 mg/kg bw or less. |
| Repe           | ated dose toxicity                           |      |   |   |
| Comp           | oonents:                                     |      |   |   |
| Petro          | latum:                                       |      |   |   |
| Speci          |  | :    | Rat   |   |
|                | EL   | :    | 5,000 mg/kg   |   |
| NOAE           | cation Route                                 |      | Ingestion   |   |

| Species           | : | Rat                     |
|-------------------|---|-------------------------|
| Application Route | : | Ingestion               |
| Exposure time     | : | 90 Days                 |
| Method            | : | OECD Test Guideline 408 |





## Warfarin Formulation

| Version<br>2.3          | Revision Date:<br>09/28/2024          |                     | DS Number:<br>11697-00011  | Date of last issue: 09/30/2023<br>Date of first issue: 07/15/2020 |
|-------------------------|---------------------------------------|---------------------|--|---|
|                         | es                                    | ::                  | Rat<br>< 10 mg/kg<br>Ingestion<br>90 Days                            |   |
| Speci<br>LOAE<br>Applie |                                       | um):<br>:<br>:<br>: | Rat<br>160 mg/kg<br>Ingestion<br>90 Days                             |   |
| Speci<br>LOAE<br>Applic | es<br>EL<br>cation Route<br>sure time | :                   | Rat<br>>= 1 mg/l<br>inhalation (dust/m<br>4 Weeks<br>OECD Test Guide | ,   |

### Aspiration toxicity

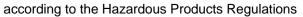
Not classified based on available information.

### **SECTION 12. ECOLOGICAL INFORMATION**

### Ecotoxicity

#### Components:

| Petrolatum:   |   |  |
|---|---|--|
| Toxicity to fish  | : | LL50 (Pimephales promelas (fathead minnow)): > 100 mg/l<br>Exposure time: 96 h<br>Test substance: Water Accommodated Fraction<br>Method: OECD Test Guideline 203<br>Remarks: Based on data from similar materials              |
| Toxicity to daphnia and other aquatic invertebrates                         | : | EC50 (Daphnia magna (Water flea)): > 10,000 mg/l<br>Exposure time: 48 h<br>Test substance: Water Accommodated Fraction<br>Remarks: Based on data from similar materials  |
| Toxicity to algae/aquatic<br>plants   | : | NOEL (Pseudokirchneriella subcapitata (green algae)): >=<br>100 mg/l<br>Exposure time: 72 h<br>Test substance: Water Accommodated Fraction<br>Method: OECD Test Guideline 201<br>Remarks: Based on data from similar materials |
| Toxicity to daphnia and other aquatic invertebrates (Chron-<br>ic toxicity) | : | NOEC (Daphnia magna (Water flea)): 10 mg/l<br>Exposure time: 21 d<br>Test substance: Water Accommodated Fraction<br>Remarks: Based on data from similar materials  |





| /ersion<br>2.3  | Revision Date:<br>09/28/2024  | -    | 0S Number:<br>11697-00011  | Date of last issue: 09/30/2023<br>Date of first issue: 07/15/2020  |  |  |
|-----------------|---|------|--|--|--|--|
| Paraf           | fin waxes and Hydroca   | arbo | on waxes:  |  |  |  |
| Toxic           | ity to fish   | :    | Exposure time:<br>Method: OECD   | les promelas (fathead minnow)): > 100 mg/l<br>96 h<br>Test Guideline 203<br>d on data from similar materials   |  |  |
|                 | ity to daphnia and other<br>tic invertebrates                           | :    | Exposure time:   | magna (Water flea)): > 1,000 mg/l<br>48 h<br>d on data from similar materials  |  |  |
|                 | Toxicity to algae/aquatic plants  |      | mg/l<br>Exposure time:<br>Method: OECD   | NOEC (Pseudokirchneriella subcapitata (green algae)): > 100<br>mg/l<br>Exposure time: 72 h<br>Method: OECD Test Guideline 201<br>Remarks: Based on data from similar materials |  |  |
| aquat           | Toxicity to daphnia and other aquatic invertebrates (Chron-ic toxicity) |      | NOEC (Daphnia magna (Water flea)): 10 mg/l<br>Exposure time: 21 d<br>Remarks: Based on data from similar materials                         |  |  |  |
| Warfa           | arin:   |      |  |  |  |  |
|                 | ity to daphnia and other<br>tic invertebrates                           | :    | EC50 (Daphnia<br>Exposure time:  | magna (Water flea)): > 105 mg/l<br>48 h  |  |  |
| Toxic<br>plants | ity to algae/aquatic  | :    | EC50 (Desmod<br>Exposure time:   | esmus subspicatus (green algae)): > 83.2 m(<br>72 h  |  |  |
| Toxic<br>icity) | ity to fish (Chronic tox-   | :    | NOEC (Oncorhy<br>Exposure time:  | ynchus mykiss (rainbow trout)): 2 mg/l<br>21 d   |  |  |
| aquat           | ity to daphnia and other<br>tic invertebrates (Chron-                   |      | NOEC (Daphnia<br>Exposure time:  | a magna (Water flea)): 0.059 mg/l<br>21 d  |  |  |
| ic tox<br>Toxic | ity to microorganisms   | :    | EC50 (Photobacterium phosphoreum): 67.5 mg/l<br>Exposure time: 5 min   |  |  |  |
| White           | e mineral oil (petroleun  | n):  |  |  |  |  |
|                 | ity to fish   | :    | Exposure time:   | nchus mykiss (rainbow trout)): > 100 mg/l<br>96 h<br>Test Guideline 203  |  |  |
|                 | ity to daphnia and other<br>tic invertebrates                           | :    | <ul> <li>EC50 (Daphnia magna (Water flea)): &gt; 100 mg/l</li> <li>Exposure time: 48 h</li> <li>Method: OECD Test Guideline 202</li> </ul> |  |  |  |
| Toxic<br>plants | ity to algae/aquatic<br>S   | :    | NOEC (Pseudokirchneriella subcapitata (green algae)): 10<br>mg/l<br>Exposure time: 72 h<br>Method: OECD Test Guideline 201                 |  |  |  |
| Toxic           | ity to fish (Chronic tox-   | :    | NOEC (Oncorh   | ynchus mykiss (rainbow trout)): 1,000 mg/l   |  |  |



according to the Hazardous Products Regulations

| ersion<br>3        | Revision Date:<br>09/28/2024                            |     | 9S Number:<br>11697-00011                                     | Date of last issue: 09/30/2023<br>Date of first issue: 07/15/2020 |
|--------------------|---|-----|---|---|
| icity)             |   |     | Exposure time: 28   | 3 d   |
|                    | y to daphnia and other<br>invertebrates (Chron-<br>ity) | :   | NOEC (Daphnia n<br>Exposure time: 21                          | nagna (Water flea)): 1,000 mg/l<br>d                              |
| Persis             | tence and degradabili                                   | ty  |   |   |
| Comp               | onents:   |     |   |   |
| Petrola            | atum:   |     |   |   |
| Biodeg             | ıradability   | :   |   | 31 %  |
| Paraffi            | in waxes and Hydroca                                    | rbo | n waxes:  |   |
| Biodeg             | radability  | :   |   | 31 %  |
| Warfa              | rin:  |     |   |   |
| Biodeg             | radability  | :   | Result: Readily bio<br>Biodegradation: 9<br>Exposure time: 28 | 92.7 %  |
| White              | mineral oil (petroleum                                  | n): |   |   |
|                    | Iradability   | :   | Result: Not readily<br>Biodegradation: 3<br>Exposure time: 28 | 31 %  |
| Bioaco             | cumulative potential                                    |     |   |   |
| Comp               | onents:   |     |   |   |
| Paraffi            | in waxes and Hydroca                                    | rbo | n waxes:  |   |
|                    | n coefficient: n-                                       | :   |   |   |
| Warfa              | rin:  |     |   |   |
| Bioacc             | umulation   | :   |   | nchus mykiss (rainbow trout)<br>factor (BCF): <= 21.6             |
| Partitic<br>octano | n coefficient: n-<br>I/water                            | :   | log Pow: 0.7  |   |
|                    | <b>ty in soil</b><br>a available                        |     |   |   |

according to the Hazardous Products Regulations



### **Warfarin Formulation**

| Version<br>2.3 | Revision Date:<br>09/28/2024 | SDS Number:<br>6111697-00011 | Date of last issue: 09/30/2023<br>Date of first issue: 07/15/2020   |  |  |
|----------------|------------------------------|------------------------------|---|--|--|
| Othe           | r adverse effects            |                              |   |  |  |
| No da          | ata available                |                              |   |  |  |
| SECTION        | 13. DISPOSAL CONS            | SIDERATIONS                  |   |  |  |
|                |                              |                              |   |  |  |
| Disp           | osal methods                 |                              |   |  |  |
| Wast           | Waste from residues :        |                              | e of waste into sewer.<br>accordance with local regulations.  |  |  |
| Conta          | aminated packaging           | handling site f              | Empty containers should be taken to an approved waste handling site for recycling or disposal.<br>If not otherwise specified: Dispose of as unused product. |  |  |

#### **SECTION 14. TRANSPORT INFORMATION**

#### International Regulations

| UNRTDG  |       |  |
|---|-------|--|
| UN number                                     | :     | UN 2811                                    |
| Proper shipping name                          | :     | TOXIC SOLID, ORGANIC, N.O.S.<br>(Warfarin) |
| Class   | :     | 6.1  |
| Packing group                                 | :     | 11   |
| Labels  | :     | 6.1  |
| Environmentally hazardous                     | :     | no   |
| IATA-DGR                                      |       |  |
| UN/ID No.                                     | :     | UN 2811                                    |
| Proper shipping name                          | :     | Toxic solid, organic, n.o.s.<br>(Warfarin) |
| Class   | :     | 6.1  |
| Packing group                                 | :     | II   |
| Labels  | :     | Toxic                                      |
| Packing instruction (cargo<br>aircraft)       | :     | 676  |
| Packing instruction (passen-<br>ger aircraft) | . :   | 669  |
| IMDG-Code                                     |       |  |
| UN number                                     |       | UN 2811                                    |
| Proper shipping name                          |       | TOXIC SOLID, ORGANIC, N.O.S.               |
|   | •     | (Warfarin)                                 |
| Class   | :     | 6.1  |
| Packing group                                 | :     | II.  |
| Labels  | :     | 6.1  |
| EmS Code                                      | :     | F-A, S-A                                   |
| Marine pollutant                              | :     | no   |
| Transport in bulk accordin                    | ng to | Annex II of MARPOL 73/78 and the IBC       |
| Not applicable for product as                 | s sup | plied.                                     |
| Domestic regulation                           |       |  |

#### **Domestic regulation**

| TDG                  |   |                              |
|----------------------|---|------------------------------|
| UN number            | : | UN 2811                      |
| Proper shipping name | : | TOXIC SOLID, ORGANIC, N.O.S. |

Code



according to the Hazardous Products Regulations

## Warfarin Formulation

| Version      | Revision Date:                        | SDS Number:   | Date of last issue: 09/30/2023             |
|--------------|---------------------------------------|---|--|
| 2.3          | 09/28/2024                            | 6111697-00011   | Date of first issue: 07/15/2020            |
| Label<br>ERG | ng group<br>s<br>Code<br>ie pollutant | (Warfarin)<br>: 6.1<br>: II<br>: 6.1<br>: 154<br>: no<br>: Display "inhala<br>with TDG 4.23 | tion hazard" mark on package in accordance |

#### 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.

#### **SECTION 15. REGULATORY INFORMATION**

#### The ingredients of this product are reported in the following inventories:

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

#### **SECTION 16. OTHER INFORMATION**

#### Full text of other abbreviations

| ACGIH<br>CA AB OEL | : | USA. ACGIH Threshold Limit Values (TLV)<br>Canada. Alberta, Occupational Health and Safety Code (table<br>2: OEL)                                 |
|--------------------|---|---|
| CA BC OEL          | : | Canada. British Columbia OEL  |
| CA QC OEL          | : | Québec. Regulation respecting occupational health and safe-<br>ty, Schedule 1, Part 1: Permissible exposure values for air-<br>borne contaminants |
| ACGIH / TWA        | : | 8-hour, time-weighted average   |
| CA AB OEL / TWA    | : | 8-hour Occupational exposure limit  |
| CA AB OEL / STEL   | : | 15-minute occupational exposure limit   |
| CA BC OEL / TWA    | : | 8-hour time weighted average  |
| CA QC OEL / TWAEV  | : | Time-weighted average exposure value  |

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); 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; ERG - Emergency Response Guide; 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 Chemi-





### Warfarin Formulation

| Version | Revision Date: | SDS Number:   | Date of last issue: 09/30/2023  |
|---------|----------------|---------------|---------------------------------|
| 2.3     | 09/28/2024     | 6111697-00011 | Date of first issue: 07/15/2020 |

cal 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; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; 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; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; 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; WHMIS - Workplace Hazardous Materials Information System

| Sources of key data used to<br>compile the Material Safety<br>Data Sheet | : | Internal technical data, data from raw material SDSs, OECD<br>eChem Portal search results and European Chemicals Agen-<br>cy, http://echa.europa.eu/ |
|--|---|--|
| Revision Date  |   | 09/28/2024   |

| Revision Date |   | 09/20/2024 |
|---------------|---|------------|
| Date format   | : | mm/dd/yyyy |

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.

CA / Z8