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Corteva Agriscience [™] encourages you and expects you to read and understand the entire SDS as there is important information throughout the document. This SDS provides users with information relating to the protection of human health and safety at the workplace, protection of the environment and supports emergency response. Product users and applicators should primarily refer to the product label attached to or accompanying the product container. This Safety Data Sheet adheres to the standards and regulatory requirements of the United States and may not meet the regulatory requirements in other countries.

SECTION 1. IDENTIFICATION

Product name : FONTELIS

Manufacturer or supplier's details

COMPANY IDENTIFICATION

| Manufacturer/importer | : | CORTEVA AGRISCIENCE LLC 9330 ZIONSVILLE RD INDIANAPOLIS, IN, 46268-1053 UNITED STATES |
|---|---|--|
| Customer Information | : | 1-800-258-3033 |
| E-mail address | : | customerinformation@corteva.com |
| Emergency telephone | : | INFOTRAC (CONTRACT 84224). |
| | | 800-992-5994 or 317-337-6009 |
| Recommended use of the of Recommended use | | nical and restrictions on use Fungicide |
| Restrictions on use | : | Do not use product for anything outside of the above specified uses. |

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)
Not a hazardous substance or mixture.
GHS label elements
Not a hazardous substance or mixture.
Other hazards

None known.



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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

| Components | | |
|--|--------------|-----------------------|
| Chemical name | CAS-No. | Concentration (% w/w) |
| penthiopyrad (ISO) | 183675-82-3 | 20.4 |
| White mineral oil (petroleum) | 8042-47-5 | >= 40 - < 50 |
| Propanediol | 57-55-6 | >= 3 - < 10 |
| Ammonium Salt of Polyarylphenyl Ether Sulphate | 119432-41-6 | >= 3 - < 10 |
| Alkylnaphthalenesulfonic acid, poly- mer with formaldehyde, sodium salt | 68425-94-5 | >= 1 - < 3 |
| Balance | Not Assigned | > 5 |
| Actual concentration is withheld as a | trade secret | |

SECTION 4. FIRST AID MEASURES

| General advice | : | Have the product container or label with you when calling a poison control center or doctor, or going for treatment. Information presented in Section 4 conforms to the require- ments of the Occupational Safety and Health Administration (OSHA) Hazard Communication Standard of 2012. See Sec- tion 15 for applicable information conforming to the require- ments of the Federal Insecticide Fungicide and Rodenticide Act (FIFRA), as required by the US Environmental Protection Agency (EPA), or by state Regulatory Agencies. For medical emergencies involving this product, call toll free 1- 888-226-8832. See Label for Additional Precautions and Di- rections for Use. |
|---|---|--|
| If inhaled | : | Move to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained per- sonnel. Call a poison control center or doctor for treatment advice. |
| In case of skin contact | : | Take off all contaminated clothing immediately. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice. |
| In case of eye contact | : | Hold eye open and rinse slowly and gently with water for 15- 20 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| If swallowed | : | If eye irritation persists, consult a specialist. Call a poison control center or doctor for treatment advice. Have person sip a glass of water if able to swallow. DO NOT induce vomiting unless directed to do so by a physi- cian or poison control center. Never give anything by mouth to an unconscious person. |
| Most important symptoms and effects, both acute and delayed | : | No information available. |
| Notes to physician | : | Treat symptomatically. |

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| | 5. FIRE-FIGHTING ME | ASURES | |
| Suitab | le extinguishing media | : Water spray Alcohol-resista | nt foam |
| Unsuit media | able extinguishing | : None known. | ntioam |
| Specifi fighting | ic hazards during fire g | | mbustion products may be a hazard to health n-off from firefighting to enter drains or water |
| Hazaro ucts | dous combustion prod- | | moke may contain the original material in addi tion products of varying composition which ma irritating. |
| Specifi ods | ic extinguishing meth- | so. Evacuate area Use extinguish | naged containers from fire area if it is safe to a ing measures that are appropriate to local cir- id the surrounding environment. |
| Further information | | Use water spra Collect contam must not be dis Fire residues a | y to cool unopened containers. inated fire extinguishing water separately. Thi scharged into drains. nd contaminated fire extinguishing water mus in accordance with local regulations. |
| | al protective equipment -fighters | : Wear self-cont essary. | ained breathing apparatus for firefighting if neo |

| Personal precautions, protec- tive equipment and emer- gency procedures | : | Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection. |
|---|---|---|
| Environmental precautions | : | If the product contaminates rivers and lakes or drains inform respective authorities. Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g., by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained. Prevent from entering into soil, ditches, sewers, underwater. See Section 12, Ecological Information. |
| Methods and materials for containment and cleaning up | : | Clean up remaining materials from spill with suitable absorb- ant. Local or national regulations may apply to releases and dis- posal of this material, as well as those materials and items employed in. For large spills, provide dyking or other appropriate contain- |
| | | |



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| | | be pumped, Recovered mat The vent must p with spilled mat pressurization of Keep in suitable Wipe up with at Soak up with in acid binder, uni | haterial from spreading. If dyked material can be revent the ingress of water as further reaction the revent the ingress of water as further reaction the revent the ingress of water as further reaction the container. e, closed containers for disposal. Desorbent material (e.g. cloth, fleece). ert absorbent material (e.g. sand, silica gel, versal binder, sawdust). h, Disposal Considerations, for additional infor- |

SECTION 7. HANDLING AND STORAGE

| Advice on safe handling | : | Do not breathe vapors/dust. Handle in accordance with good industrial hygiene and safety practice. Smoking, eating and drinking should be prohibited in the ap- plication area. Take care to prevent spills, waste and minimize release to the environment. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection. |
|---|---|--|
| Conditions for safe storage Materials to avoid | | Store in a closed container. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep in properly labeled containers. Store in accordance with the particular national regulations. Strong oxidizing agents |
| Packaging material | : | Unsuitable material: None known. |

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

| Components | CAS-No. | Value type (Form of exposure) | Control parame- ters / Permissible concentration | Basis |
|--|-----------|-------------------------------------|--|----------|
| White mineral oil (petroleum) | 8042-47-5 | TWA (Mist) | 5 mg/m3 | OSHA Z-1 |
| | | TWA (Inhal- | 5 mg/m3 | ACGIH |
| | | able particu- | _ | |
| | | late matter) | | |
| Propanediol | 57-55-6 | TWA | 10 mg/m3 | US WEEL |
| Engineering measures : Information presented in Section 8 conforms to the require- | | | | |

Engineering measures : Information presented in Section 8 conforms to the requirements of the Occupational Safety and Health Administration (OSHA) Hazard Communication Standard of 2012. See Section 15 for applicable information conforming to the requirements of the Federal Insecticide Fungicide and Rodenticide Act (FIFRA), as required by the US Environmental Protection Agency (EPA), or by state Regulatory



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| | | craft in a ma Worker Prote [40 CFR 170 | ers use closed systems, enclosed cabs, or air- nner that meets the requirements listed in the ection Standard(WPS) for agricultural pesticides 0.240 (d)(4-6)], the handler PPE requirements ced or modified as specified in the WPS. |
| Perso | onal protective equip | ment | |
| Respi | iratory protection | tial to exceed If there are n guidelines, u Selection of depend on th concentration For emerger | protection should be worn when there is a poten- d the exposure limit requirements or guidelines. no applicable exposure limit requirements or use an approved respirator. air-purifying or positive-pressure supplied-air will ne specific operation and the potential airborne n of the material. ncy conditions, use an approved positive- f-contained breathing apparatus. |
| Hand | protection | | |
| Re | emarks | preferred glo ral rubber ("la trile" or "NBF ("EVAL"). Po selection of a duration of u all relevant w er chemicals (cut/puncture tial body read | chemically resistant to this material. Examples of ove barrier materials include: Butyl rubber. Natu- atex"). Neoprene. Nitrile/butadiene rubber ("ni- R"). Polyethylene. Ethyl vinyl alcohol laminate olyvinyl chloride ("PVC" or "vinyl"). NOTICE: The a specific glove for a particular application and se in a workplace should also take into account vorkplace factors such as, but not limited to: Oth- s which may be handled, physical requirements e protection, dexterity, thermal protection), poten- ctions to glove materials, as well as the instruc- cations provided by the glove supplier. |
| | rotection and body protection | : Use safety g : Mixers, loade | lasses (with side shields). ers, applicators and other handlers must wear: d shirt and long pants |
| Protec | ctive measures | : Follow manu PPE. If no s gent and hot other laundry Do not apply other person Only protecto tion. | facturer's instructions for cleaning/maintaining such instructions for washables exist, use deter- water. Keep and wash PPE separately from |
| Hygie | ne measures | : Wash hands and before e using the toil Remove clot Wash thorou Remove per handling this Wash the ou | thoroughly with soap and water after handling eating, drinking, chewing gum, using tobacco, or let. hing/PPE immediately if material gets inside. ughly and put on clean clothing. sonal protective equipment immediately after |



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| 050 | SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES | | | | | |
| SEC | | | | | 5 | |
| | Appearance | | : | liquid | | |
| | Color | | : | off-white | | |
| | Odor | | : | slight, ester-like | | |
| | Odor T | hreshold | : | not determined | | |
| | рН | | : | 6.66 Concentration: 1 | 0 g/L | |
| | Melting | point/range | : | Not applicable, tl | ne product is a liquid. | |
| | Freezir | ng point | | Not determined | | |
| | Boiling | point/boiling range | : | No data available | 9 | |
| | Flash p | point | : | > 221 °F / > 105 | °C | |
| | | | | Method: closed of | cup | |
| | Evaporation rate | | : | No data available | | |
| | Flammability (solid, gas) | | : | Does not sustain combustion. | | |
| | Self-ignition | | : | ca. 725 °F / 385 °C | | |
| | Upper explosion limit / Upper flammability limit | | : | No data available | 9 | |
| | | explosion limit / Lower ability limit | : | No data available | 9 | |
| | Vapor | pressure | : | No data available | 9 | |
| | Relativ | e vapor density | : | No data available | 9 | |
| | Relativ | e density | : | 0.9789 | | |
| | Density | / | : | No data available | e | |
| | Solubil Wat | ity(ies) ter solubility | : | dispersible | | |
| | | n coefficient: n- | : | Not applicable | | |
| | octano Autoigr | l/water nition temperature | : | 725 °F / 385 °C | | |
| | Viscosi Visc | ity cosity, dynamic | : | 770.7 mPa.s 30 rpm | | |



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| | Explosi | ive properties | : | Not explosive | | |
| | Oxidizing properties | | : | The substance or mixture is not classified as oxidizing. | | |
| SECTION 10. STABILITY AND REACTIVITY | | | | | | |
| | Reactivity Chemical stability Possibility of hazardous reac- tions | | : | No decomposition Stable under nor Stable under rec | a reactivity hazard. In if stored and applied as directed. Imal conditions. Immended storage conditions. Immended storage conditions. | |
| | Incomp | ons to avoid patible materials lous decomposition ts | : | | roducts depend upon temperature, air supply e of other materials. | |

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

| Product: | |
|-----------------------------|---|
| Acute oral toxicity : | LD50 (Rat, female): > 5,000 mg/kg Method: OECD Test Guideline 425 Symptoms: No deaths occurred at this concentration. |
| Acute inhalation toxicity : | LC50 (Rat, male and female): > 3.5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Symptoms: No deaths occurred at this concentration. Assessment: The substance or mixture has no acute inhala- tion toxicity |
| Acute dermal toxicity : | LD50 (Rat, male and female): > 5,000 mg/kg Method: OECD Test Guideline 402 Symptoms: No deaths occurred at this concentration. |
| Components: | |
| penthiopyrad (ISO): | |
| Acute oral toxicity : | LD50 (Rat, male and female): > 2,000 mg/kg Method: OECD Test Guideline 423 Symptoms: No deaths occurred at this concentration. Assessment: The substance or mixture has no acute oral tox- icity |
| Acute inhalation toxicity : | LC50 (Rat, male and female): > 5.59 mg/l Exposure time: 4 h Test atmosphere: dust/mist |

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| | | Method: OE | CD Test Guideline 403 | | |
| Acute | dermal toxicity | Method: OE Symptoms: | Method: OECD Test Guideline 402 Symptoms: No deaths occurred at this concentration. Assessment: The substance or mixture has no acute dermal | | |
| White | e mineral oil (petrole | eum): | | | |
| Acute | oral toxicity | : LD50 (Rat): | > 5,000 mg/kg | | |
| Acute | inhalation toxicity | Exposure tir Test atmosp Method: OE | male and female): > 5 mg/l ne: 4 h ohere: dust/mist CD Test Guideline 403 t: The substance or mixture has no acute inhala- | | |
| Acute | dermal toxicity | Symptoms: | it): > 2,000 mg/kg No deaths occurred at this concentration. t: The substance or mixture has no acute derma | | |
| Propa | anediol: | | | | |
| Acute | oral toxicity | : LD50 (Rat): | > 20,000 mg/kg | | |
| Acute | inhalation toxicity | Exposure tir Test atmosp Symptoms: Assessmen tion toxicity | ohere: dust/mist No deaths occurred at this concentration. t: The substance or mixture has no acute inhala- list may cause irritation of upper respiratory tract | | |
| Acute | dermal toxicity | Symptoms: | it): > 2,000 mg/kg No deaths occurred at this concentration. t: The substance or mixture has no acute derma | | |
| Amm | onium Salt of Polya | rylphenyl Ether Su | Iphate: | | |
| Acute | oral toxicity | : LD50 (Rat): | > 2,000 mg/kg | | |
| - | naphthalenesulfonio | c acid, polymer wit : LD50 (Rat): | h formaldehyde, sodium salt: > 4,500 mg/kg | | |
| Skin | corrosion/irritation | | | | |
| Produ | uct: | | | | |
| Speci Metho | es | : Rabbit : OECD Test | Guideline 404 | | |
| | | 8 / | 24 | | |
| | | | | | |



| Components: penthiopyrad (ISO): Species Exposure time Method Result Propanediol: Species Result AlkyInaphthalenesulfonic acid Species Result Species Result Species Result Serious eye damage/eye irritat Product: Species Result Serious eye damage/eye irritat Product: Species Result Method Components: penthiopyrad (ISO): Species Result Exposure time Method Propanediol: Species Result Exposure time Method Propanediol: Species Result Anmonium Salt of Polyarylph | Rabbit No skin irritation | naldehyde, sodium salt: |
|--|---|-------------------------|
| penthiopyrad (ISO): Species Exposure time Method Result Propanediol: Species Result AlkyInaphthalenesulfonic acid Species Result Serious eye damage/eye irritat Product: Species Result Method Components: penthiopyrad (ISO): Species Result Exposure time Method Propanediol: Species Result Exposure time Method Propanediol: Species Result Exposure time Method Propanediol: Species Result Anmonium Salt of PolyaryIpH Result AlkyInaphthalenesulfonic acid Species | 72 h OECD Test Guide No skin irritation Rabbit No skin irritation d, polymer with form Rabbit No skin irritation tion Rabbit No eye irritation OECD Test Guide | naldehyde, sodium salt: |
| Species Exposure time Method Result Propanediol: Species Result AlkyInaphthalenesulfonic acid Species Result Serious eye damage/eye irrita Product: Species Result Method Components: penthiopyrad (ISO): Species Result Exposure time Method Propanediol: Species Result Ammonium Salt of PolyaryIpH Result AlkyInaphthalenesulfonic acid | 72 h OECD Test Guide No skin irritation Rabbit No skin irritation d, polymer with form Rabbit No skin irritation tion Rabbit No eye irritation OECD Test Guide | naldehyde, sodium salt: |
| Species Exposure time Method Result Propanediol: Species Result AlkyInaphthalenesulfonic acid Species Result Serious eye damage/eye irrita Product: Species Result Method Components: penthiopyrad (ISO): Species Result Exposure time Method Propanediol: Species Result Ammonium Salt of PolyaryIpH Result AlkyInaphthalenesulfonic acid | 72 h OECD Test Guide No skin irritation Rabbit No skin irritation d, polymer with form Rabbit No skin irritation tion Rabbit No eye irritation OECD Test Guide | naldehyde, sodium salt: |
| Exposure time Method Result Propanediol: Species Result AlkyInaphthalenesulfonic acid Species Result Serious eye damage/eye irrita Product: Species Result Method Components: penthiopyrad (ISO): Species Result Exposure time Method Propanediol: Species Result Ammonium Salt of PolyaryIpH Result AlkyInaphthalenesulfonic acid | 72 h OECD Test Guide No skin irritation Rabbit No skin irritation d, polymer with form Rabbit No skin irritation tion Rabbit No eye irritation OECD Test Guide | naldehyde, sodium salt: |
| Method Result Propanediol: Species Result AlkyInaphthalenesulfonic acia Species Result Serious eye damage/eye irrita Product: Species Result Method Components: penthiopyrad (ISO): Species Result Exposure time Method Propanediol: Species Result Ammonium Salt of PolyaryIpH Result AlkyInaphthalenesulfonic acia | OECD Test Guide No skin irritation Rabbit No skin irritation d, polymer with form Rabbit No skin irritation tion Rabbit No eye irritation OECD Test Guide | naldehyde, sodium salt: |
| Result Propanediol: Species Result AlkyInaphthalenesulfonic acid Species Result Serious eye damage/eye irrita Product: Species Result Method Components: penthiopyrad (ISO): Species Result Exposure time Method Propanediol: Species Result Ammonium Salt of PolyaryIpH Result AlkyInaphthalenesulfonic acid Species | No skin irritation Rabbit No skin irritation d, polymer with form Rabbit No skin irritation tion Rabbit No eye irritation OECD Test Guide | naldehyde, sodium salt: |
| Species Result AlkyInaphthalenesulfonic acia Species Result Serious eye damage/eye irrita Product: Species Result Method Components: penthiopyrad (ISO): Species Result Exposure time Method Propanediol: Species Result Ammonium Salt of PolyaryIpH Result AlkyInaphthalenesulfonic acia | No skin irritation d, polymer with form Rabbit No skin irritation tion Rabbit No eye irritation OECD Test Guide | |
| Species Result AlkyInaphthalenesulfonic acia Species Result Serious eye damage/eye irrita Product: Species Result Method Components: penthiopyrad (ISO): Species Result Exposure time Method Propanediol: Species Result Ammonium Salt of PolyaryIpH Result AlkyInaphthalenesulfonic acia | No skin irritation d, polymer with form Rabbit No skin irritation tion Rabbit No eye irritation OECD Test Guide | |
| Result AlkyInaphthalenesulfonic acid Species Result Serious eye damage/eye irrita Product: Species Result Method Components: penthiopyrad (ISO): Species Result Exposure time Method Propanediol: Species Result Ammonium Salt of PolyarylpH Result AlkyInaphthalenesulfonic acid Species | No skin irritation d, polymer with form Rabbit No skin irritation tion Rabbit No eye irritation OECD Test Guide | |
| Species Result Serious eye damage/eye irrita <u>Product:</u> Species Result Method Components: penthiopyrad (ISO): Species Result Exposure time Method Propanediol: Species Result Ammonium Salt of Polyarylph Result Alkylnaphthalenesulfonic acia Species | Rabbit No skin irritation tion Rabbit No eye irritation OECD Test Guide | |
| Species Result Serious eye damage/eye irrita Product: Species Result Method Components: penthiopyrad (ISO): Species Result Exposure time Method Propanediol: Species Result Ammonium Salt of Polyarylph Result Alkylnaphthalenesulfonic acia Species | Rabbit No skin irritation tion Rabbit No eye irritation OECD Test Guide | |
| Result Serious eye damage/eye irrita Product: Species Result Method Components: penthiopyrad (ISO): Species Result Exposure time Method Propanediol: Species Result Ammonium Salt of PolyarylpH Result Alkylnaphthalenesulfonic acid Species | No skin irritation tion Rabbit No eye irritation OECD Test Guide | eline 405 |
| Product: Species Result Method Components: penthiopyrad (ISO): Species Result Exposure time Method Propanediol: Species Result Ammonium Salt of Polyarylph Result Alkylnaphthalenesulfonic acid Species | Rabbit No eye irritation OECD Test Guide | eline 405 |
| Species Result Method Components: penthiopyrad (ISO): Species Result Exposure time Method Propanediol: Species Result Ammonium Salt of Polyarylph Result Alkylnaphthalenesulfonic acia | No eye irritation OECD Test Guide | eline 405 |
| Result Method Components: penthiopyrad (ISO): Species Result Exposure time Method Propanediol: Species Result Ammonium Salt of Polyarylph Result Alkylnaphthalenesulfonic acid Species | No eye irritation OECD Test Guide | eline 405 |
| Result Method Components: penthiopyrad (ISO): Species Result Exposure time Method Propanediol: Species Result Ammonium Salt of Polyarylph Result Alkylnaphthalenesulfonic acid Species | No eye irritation OECD Test Guide | eline 405 |
| Components: penthiopyrad (ISO): Species Result Exposure time Method Propanediol: Species Result Ammonium Salt of Polyarylph Result Alkylnaphthalenesulfonic acie Species | OECD Test Guide | eline 405 |
| penthiopyrad (ISO): Species Result Exposure time Method Propanediol: Species Result Ammonium Salt of Polyarylph Result Alkylnaphthalenesulfonic acid Species | Rabbit | |
| Species Result Exposure time Method Propanediol: Species Result Ammonium Salt of Polyarylph Result Alkylnaphthalenesulfonic acia Species | Rabbit | |
| Result Exposure time Method Propanediol: Species Result Ammonium Salt of Polyarylph Result Alkylnaphthalenesulfonic acia Species | Rabbit | |
| Exposure time Method Propanediol: Species Result Ammonium Salt of Polyarylph Result Alkylnaphthalenesulfonic acia Species | | |
| Method Propanediol: Species Result Ammonium Salt of Polyarylph Result Alkylnaphthalenesulfonic acid Species | No eye irritation | |
| Propanediol: Species Result Ammonium Salt of Polyarylph Result Alkylnaphthalenesulfonic acia Species | 72 h | |
| Species Result Ammonium Salt of Polyarylph Result Alkylnaphthalenesulfonic aci Species | OECD Test Guide | eline 405 |
| Result Ammonium Salt of Polyarylph Result Alkylnaphthalenesulfonic acid Species | | |
| Ammonium Salt of Polyarylph Result Alkylnaphthalenesulfonic aci Species | Rabbit | |
| Result AlkyInaphthalenesulfonic aci Species | No eye irritation | |
| AlkyInaphthalenesulfonic aci Species | | e: |
| Species | Corrosive | |
| | l, polymer with forn | naldehyde, sodium salt: |
| | Rabbit | |
| | Eye irritation | |
| Respiratory or skin sensitizat | ion | |
| Product: | | |
| Test Type | | |
| Species | Maximization Test | t |



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| Method : Result : | | | OECD Test Guideline 406 Does not cause skin sensitization. | | |
| Comp | oonents: | | | | |
| penth | iopyrad (ISO): | | | | |
| Test T | | : Maximization | Test | | |
| Speci | es sment | : Guinea pig | se skin sensitization. | | |
| Metho | | : OECD Test G | | | |
| White | mineral oil (petrole | um): | | | |
| Rema | rks | : Did not cause pigs. | allergic skin reactions when tested in guinea | | |
| Rema | rks | : For respirator No relevant d | y sensitization: ata found. | | |
| Propa | anediol: | | | | |
| Speci Asses | es sment | : human : Does not cau | se skin sensitization. | | |
| Germ cell mutagenicity | | | | | |
| Comp | oonents: | | | | |
| penth | iopyrad (ISO): | | | | |
| | cell mutagenicity - ssment | | lid not show mutagenic effects, In vitro genetic s were negative. | | |
| White | mineral oil (petrole | um): | | | |
| | cell mutagenicity - | : In vitro genet | c toxicity studies were negative. | | |
| Propa | anediol: | | | | |
| | cell mutagenicity - ssment | 5 | c toxicity studies were negative., Animal genetic s were negative. | | |
| Amm | onium Salt of Polya | ylphenyl Ether Sulp | bhate: | | |
| | cell mutagenicity - sment | : In vitro genet | c toxicity studies were negative. | | |
| Carci | nogenicity | | | | |
| <u>Comp</u> | oonents: | | | | |
| penth | iopyrad (ISO): | | | | |
| Carcir ment | nogenicity - Assess- | : Did not cause | e cancer in laboratory animals. | | |
| White | mineral oil (petrole | um): | | | |
| Carcir | nogenicity - Assess- | : Did not cause | e cancer in laboratory animals. | | |



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| ment | | |
| Prona | nediol: | |
| - | ogenicity - Assess- | : Did not cause cancer in laboratory animals. |
| IARC | | nt of this product present at levels greater than or equal to 0.1% is probable, possible or confirmed human carcinogen by IARC. |
| OSHA | | ent of this product present at levels greater than or equal to 0.1% i list of regulated carcinogens. |
| NTP | | nt of this product present at levels greater than or equal to 0.1% is a known or anticipated carcinogen by NTP. |
| Repro | ductive toxicity | |
| <u>Comp</u> | onents: | |
| penthi | opyrad (ISO): | |
| Reproo sessm | ductive toxicity - As- ent | : In animal studies, did not interfere with reproduction. Did not cause birth defects or any other fetal effects in labo tory animals. |
| White | mineral oil (petrole | um): |
| Reproo sessm | ductive toxicity - As- ent | : In animal studies, did not interfere with reproduction. Did not cause birth defects in laboratory animals. |
| Propa | nediol: | |
| Reproo sessm | ductive toxicity - As- ent | In animal studies, did not interfere with reproduction., In ani mal studies, did not interfere with fertility. Did not cause birth defects or any other fetal effects in labo tory animals. |
| STOT- | single exposure | |
| <u>Produ</u> | ct: | |
| Assess | | : Evaluation of available data suggests that this material is no an STOT-SE toxicant. |
| Comp | onents: | |
| penthi | opyrad (ISO): | |
| Assess | sment | : Evaluation of available data suggests that this material is no an STOT-SE toxicant. |
| | mineral oil (petrole | - |
| Assess | sment | : Available data are inadequate to determine single exposure specific target organ toxicity. |
| Prona | nediol: | |
| пора | | |



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| | | an STOT-SE to | oxicant. | | | | |
| AlkyInaphthalenesulfonic acid, polymer with formaldehyde, sodium salt: | | | | | | | |
| Asses | ssment | : Available data specific target | are inadequate to determine single exposure organ toxicity. | | | | |
| Repea | ated dose toxicity | | | | | | |
| <u>Comp</u> | oonents: | | | | | | |
| penth | iopyrad (ISO): | | | | | | |
| Specie Applic Metho Rema | cation Route | multiple specie Oral OECD Test Gu In animals, efference gans: Reduced body Liver effects Thyroid effects Spleen effects Gallbladder effects Gallbladder effects Liver enlargem immune system altered blood of altered hemato Organ weight of Decreased sple Increased liver | ideline 407 acts have been reported on the following or- weight gain ects ent n effects hemistry logy changes een weight | | | | |
| White | e mineral oil (petrole | um): | | | | | |
| Rema | ırks | | able data, repeated exposures are not antici additional significant adverse effects. | | | | |
| Propa | anediol: | | | | | | |
| Rema | rks | | epeated excessive exposure to propylene g central nervous system effects. | | | | |
| Amm | onium Salt of Polya | rylphenyl Ether Sulpl | nate: | | | | |
| Rema | • | : Based on avail | able data, repeated exposures are not antici significant adverse effects. | | | | |
| Aspir | ation toxicity | | | | | | |
| | <u>uct:</u> | | | | | | |

Based on physical properties, not likely to be an aspiration hazard.

Components:

penthiopyrad (ISO):

Based on physical properties, not likely to be an aspiration hazard.



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White mineral oil (petroleum):

Based on physical properties, not likely to be an aspiration hazard.

Propanediol:

Based on physical properties, not likely to be an aspiration hazard.

Ammonium Salt of Polyarylphenyl Ether Sulphate:

Based on physical properties, not likely to be an aspiration hazard.

Alkylnaphthalenesulfonic acid, polymer with formaldehyde, sodium salt:

Based on physical properties, not likely to be an aspiration hazard.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

| Product: | | |
|---|---|--|
| Toxicity to fish | : | LC50 (Oncorhynchus mykiss (rainbow trout)): 2.2 mg/l Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 203 GLP: yes |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): 0.29 mg/l Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202 GLP: yes |
| Toxicity to algae/aquatic plants | : | ErC50 (Pseudokirchneriella subcapitata (green algae)): > 10 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 GLP: yes |
| Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity) | : | NOEC (Daphnia magna (Water flea)): 0.075 mg/l Exposure time: 21 d Test Type: Semi-Static-Life-Cycle Method: OECD Test Guideline 211 GLP: yes |
| Toxicity to terrestrial organ- isms | : | oral LD50 (Apis mellifera (bees)): 517.42 µg/bee Exposure time: 2 d Method: OECD Test Guideline 213 GLP: yes |
| | | contact LD50 (Apis mellifera (bees)): 482.63 µg/bee Exposure time: 2 d Method: OECD Test Guideline 214 GLP: yes |



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|----------------|--|--|---|---|
| Com | oonents: | | | |
| - | hiopyrad (ISO): ity to fish | : | Exposure time: 96 Test Type: flow-th Method: OECD Te | rrough est Guideline 203 s promelas (fathead minnow)): 0.290 mg/l ò h |
| | ity to daphnia and other ic invertebrates | to daphnia and other : EC50 (Daphnia magna (W invertebrates Exposure time: 48 h Test Type: Static Method: OECD Test Guide | | est Guideline 203 agna (Water flea)): > 1.375 mg/l 3 h est Guideline 202 vsis bahia (mysid shrimp)): > 1.7 mg/l |
| | Toxicity to algae/aquatic : plants | | Method: US EPA | n inhibition |
| | | | mg/l Exposure time: 72 Test Type: Growth Method: OECD Te | n inhibition est Guideline 201 oba (gibbous duckweed)): 1.205 mg/l |
| | | | Test Type: Static Method: OECD Te EbC50 (Pseudokin mg/l Exposure time: 72 Test Type: Static Method: OECD Te | rchneriella subcapitata (green algae)): 2.21 ? h |
| | | | mg/l Exposure time: 96 Test Type: Static Method: OECD Te | est Guideline 201 |
| | | | ErC50 (Lemna gin Exposure time: 7 o Test Type: Static 14 / 24 | bba (duckweed)): > 1.2 mg/l d |



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|-------------------------------|--|---|--|--|
| | | | Method: OECD | Test Guideline 221 |
| M-Fac icity) | tor (Acute aquatic tox- | : | 1 | |
| | y to fish (Chronic tox- | : | Exposure time: 3 Test Type: Early | |
| aquation | Toxicity to daphnia and other : aquatic invertebrates (Chron- ic toxicity) | | Exposure time: 2 Test Type: flow- | |
| | tor (Chronic aquatic | : | 1 | |
| toxicity Toxicit ganisn | y to soil dwelling or- | : | Exposure time: 1 | etida (earthworms)): > 1,000 mg/kg I4 d Test Guideline 207 |
| Toxicit isms | y to terrestrial organ- | : | | irginianus (Bobwhite quail)): > 2,250 mg/kg A Test Guideline OPPTS 850.2100 |
| | | | mg/kg Exposure time: 5 | olinus virginianus (Bobwhite quail)): > 1,913 5 d Test Guideline 205 |
| | | | Exposure time: 4 | mellifera (bees)): > 500 µg/b ł8 d Test Guideline 213 |
| | | | Exposure time: 4 | pis mellifera (bees)): > 500 µg/b ł8 d Test Guideline 214 |
| White | White mineral oil (petroleun | | | |
| Toxicit | y to fish | : | isms on an acute | al is practically non-toxic to aquatic organ- basis (LC50/EC50/EL50/LL50 >100 mg/L i ve species tested). |
| | | | LC50 (Lepomis r Exposure time: 9 Test Type: static | |
| | | | Exposure time: 9 Test Type: static | |
| | | | Exposure time: 9 Test Type: static | |

SAFETY DATA SHEET



| ersion) | Revision Date: 02/04/2022 | | 0S Number: 0080000416 | Date of last issue: - Date of first issue: 02/04/2022 | | | |
|---|--|-----|--|---|--|--|--|
| Toxicity to daphnia and other aquatic invertebrates | | : | LL50 (Daphnia ma Exposure time: 48 Test Type: static t Method: OECD Te | 3 h rest | | | |
| Ecoto | oxicology Assessment | | | | | | |
| Acute | aquatic toxicity | : | : This product has no known ecotoxicological effects. | | | | |
| Chron | ic aquatic toxicity | : | This product has i | no known ecotoxicological effects. | | | |
| Propa | anediol: | | | | | | |
| Toxici | ty to fish | : | LC50 (Oncorhync Exposure time: 96 Test Type: static t Method: OECD Te | est | | | |
| | ty to daphnia and other ic invertebrates | : | LC50 (Ceriodaphr Exposure time: 48 Test Type: static t Method: OECD Te | est | | | |
| Toxici plants | ty to algae/aquatic | : | ErC50 (Pseudokir 19,000 mg/l End point: Growth Exposure time: 96 Method: OECD Te | δh | | | |
| | ty to daphnia and other ic invertebrates (Chron- city) | : | NOEC (Ceriodaph End point: numbe Exposure time: 7 Test Type: semi-s | d | | | |
| Toxici | ty to microorganisms | : | NOEC (Pseudome Exposure time: 18 | onas putida): > 20,000 mg/l 3 h | | | |
| Amm | onium Salt of Polyaryl | phe | nyl Ether Sulphat | e: | | | |
| | ty to fish | : | Remarks: Materia | I is slightly toxic to aquatic organisms on an D/EC50 between 10 and 100 mg/L in the | | | |
| | | | LC50 (Oncorhync Exposure time: 96 | hus mykiss (rainbow trout)): 33 mg/l ን h | | | |
| | ty to daphnia and other ic invertebrates | : | EC50 (Daphnia m Exposure time: 48 | agna (Water flea)): 24 mg/l 3 h | | | |
| Persis | stence and degradabil | ity | | | | | |
| | oonents: | - | | | | | |
| | iopyrad (ISO): | | | | | | |
| Penti | | | | | | | |



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|----------------|------------------------------|---|---|
| Biode | gradability | | eadily biodegradable. CD Test Guideline 301F or Equivalent |
| White | e mineral oil (petroleu | m): | |
| Biode | gradability | Remarks: Ba terial cannot er, these res not biodegra Material is in | biodegradable. ased on stringent OECD test guidelines, this ma- be considered as readily biodegradable; howev- ults do not necessarily mean that the material is dable under environmental conditions. herently biodegradable (reaches > 20% biodeg- DECD test(s) for inherent biodegradability). |
| | | Concentratic Biodegradati Exposure tin Method: OE0 | on: 0 - 24 % |
| ThOD |) | : 3.50 kg/kg | |
| Photo | odegradation | Sensitizer: C | nt: 8.28E-12 cm3/s |
| Propa | anediol: | | |
| Biode | gradability | Biodegradati Exposure tin Method: OE | |
| | | | |
| | emical Oxygen De- (BOD) | : 69.000 % Incubation ti | me: 5 d |
| | | 70.000 % Incubation ti | me: 10 d |
| | | 86.000 % Incubation ti | me: 20 d |
| Cherr (COD | nical Oxygen Demand | : 1.53 kg/kg | |
| ThOD | | : 1.68 kg/kg | |
| Photo | degradation | : Rate constar Method: Esti | nt: 1.28E-11 cm3/s mated. |
| | | 17 / | 24 |
| | | | |

17 / 24 ---Internal Use---



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|-------|---|--|---|
| | onium Salt of Polya gradability | | Iphate: ased on analogy. |
| DIOG | gradabiity | Based on st be consider sults do not gradable un Material is u | ringent OECD test guidelines, this material can ed as readily biodegradable; however, these re- necessarily mean that the material is not biode der environmental conditions. Iltimately biodegradable under anaerobic condi- ding to the relevant OECD test(s). |
| Bioad | cumulative potentia | al | |
| Comp | oonents: | | |
| penth | niopyrad (ISO): | | |
| Bioac | cumulation | Bioconcentr Exposure tir | ncorhynchus mykiss (rainbow trout) ation factor (BCF): 155 - 186 ne: 14 d CD Test Guideline 305 |
| | on coefficient: n- ol/water | : log Pow: 3.2 | 2 (75 °F / 24 °C) |
| White | e mineral oil (petrole | um): | |
| Bioac | cumulation | : Species: Fis Bioconcentr | sh ation factor (BCF): 1,900 |
| | on coefficient: n- ol/water | | |
| Propa | anediol: | | |
| Bioac | cumulation | : Bioconcentr Method: Est | ation factor (BCF): 0.09 imated. |
| | on coefficient: n- ol/water | : log Pow: -1. Method: Me Remarks: B Pow < 3). | |
| Amm | onium Salt of Polya | rylphenyl Ether Su | Iphate: |
| | on coefficient: n- ol/water | : Remarks: N | o data available for this product. |
| - | - | | h formaldehyde, sodium salt: |
| | on coefficient: n- ol/water | : Remarks: N | o data available for this product. |
| Balan | | _ | |
| | on coefficient: n- ol/water | : Remarks: N | o relevant data found. |





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|---------------|---------------|--|----------|---|--|--|--|
| N | Mobility | y in soil | | | | | |
| C | | <u>t:</u> tion among environ- compartments | : | Remarks: Under a potential of mobili | actual use conditions the product has a low ty in soil. | | |
| <u>c</u> | Compo | nents: | | | | | |
| Ľ | Distribu | opyrad (ISO): tion among environ- compartments | : | : Remarks: Under actual use conditions the product has a low potential of mobility in soil. | | | |
| v | Nhite n | nineral oil (petroleun | n): | | | | |
| | | tion among environ- compartments | : | Koc: 510 Method: Estimate Remarks: Potenti and 2000). | d. al for mobility in soil is low (Koc between 500 | | |
| F | Propan | ediol: | | | | | |
| D | - Distribu | tion among environ- compartments | : | from natural bodie an important fate | ts very low Henry's constant, volatilization es of water or moist soil is not expected to be | | |
| Δ | Ammor | nium Salt of Polyaryl | phe | nvl Ether Sulphat | e: | | |
| C | Distribu | tion among environ- compartments | | Remarks: No rele | | | |
| C | | e: tion among environ- compartments | : | Remarks: No rele | vant data found. | | |
| C | Other a | dverse effects | | | | | |
| <u>c</u> | Compo | nents: | | | | | |
| F | | opyrad (ISO): of PBT and vPvB ment | : | lating and toxic (F | not considered to be persistent, bioaccumu- BT). This substance is not considered to be d very bioaccumulating (vPvB). | | |
| F | | nineral oil (petroleun of PBT and vPvB ment | n): : | lating and toxic (F | not considered to be persistent, bioaccumu- BT). This substance is not considered to be d very bioaccumulating (vPvB). | | |
| C | Ozone-l | Depletion Potential | : | | bstance is not on the Montreal Protocol list t deplete the ozone layer. | | |



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| Prop | anediol: | | |
| | lts of PBT and vPvB ssment | lating and to | nce is not considered to be persistent, bioaccumu- oxic (PBT). This substance is not considered to be rent and very bioaccumulating (vPvB). |
| Ozor | ne-Depletion Potential | | his substance is not on the Montreal Protocol list es that deplete the ozone layer. |
| Amn | nonium Salt of Polyary | Iphenyl Ether Su | Ilphate: |
| | lts of PBT and vPvB ssment | | nce has not been assessed for persistence, bioac- and toxicity (PBT). |
| Ozor | e-Depletion Potential | | his substance is not on the Montreal Protocol list es that deplete the ozone layer. |
| Alky | Inaphthalenesulfonic a | acid, polymer wi | th formaldehyde, sodium salt: |
| | lts of PBT and vPvB ssment | | nce has not been assessed for persistence, bioacand toxicity (PBT). |
| Ozor | e-Depletion Potential | | his substance is not on the Montreal Protocol list es that deplete the ozone layer. |
| Bala | nce: | | |
| | lts of PBT and vPvB ssment | | nce has not been assessed for persistence, bioac- and toxicity (PBT). |
| Ozor | ne-Depletion Potential | | his substance is not on the Montreal Protocol list es that deplete the ozone layer. |

SECTION 13. DISPOSAL CONSIDERATIONS

| Disposal methods | |
|---------------------|---|
| Waste from residues | If wastes and/or containers cannot be disposed of according to the product label directions, disposal of this material must be in accordance with your local or area regulatory authorities. This information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. If the material as supplied becomes a waste, follow all applicable regional, national and local laws. |



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|----------------|--|--|--|
| SECTIO | N 14. TRANSPORT INFO | | |
| | | - | |
| Inte | ernational Regulations | | |
| UN | RTDG | | |
| UN | number | : UN 3082 | |
| Pro | per shipping name | : ENVIRONMEN N.O.S. (Penthiopyrad) | TALLY HAZARDOUS SUBSTANCE, LIQUID, |
| Cla | | : 9 | |
| Pac | king group | : 111 | |
| Lab | els | : 9 | |
| ΙΑΤ | A-DGR | | |
| | /ID No. | : UN 3082 | |
| Pro | per shipping name | (Penthiopyrad) | y hazardous substance, liquid, n.o.s. |
| Cla | | : 9 | |
| | king group | : | |
| Lab | | : Miscellaneous | |
| airc | king instruction (cargo raft) | : 964 | |
| | king instruction (passen- aircraft) | : 964 | |
| IME |)G-Code | | |
| UN | number | : UN 3082 | |
| Pro | per shipping name | N.O.S. | TALLY HAZARDOUS SUBSTANCE, LIQUID, |
| Cla | | (Penthiopyrad) | |
| Cla | | : 9 : III | |
| Lab | king group | . III : 9 | |
| | S Code | : F-A, S-F | |
| | rine pollutant | : yes | |
| | narks | : Stowage catego | ory A |
| 1.01 | | . Clonage ballog | |

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation

49 CFR

Not regulated as a dangerous good

Further information

Marine Pollutants assigned UN number 3077 and 3082 in single or combination packaging containing a net quantity per single or inner packaging of 5L or less for liquids or having a net mass per single or inner packaging of 5 KG or less for solids may be transported as non-dangerous goods as provided in section 2.10.2.7 of IMDG code, IATA Special provision A197, and ADR/RID special provision 375.

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



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Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

| SARA 311/312 Hazards | : | No SARA Hazards |
|----------------------|---|---|
| SARA 313 | : | This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313. |

US State Regulations

Pennsylvania Right To Know

| White mineral oil (petroleum) | 8042-47-5 |
|---|------------|
| Propanediol | 57-55-6 |
| Distillates (petroleum), hydro- treated light; Kerosine — un- | 64742-47-8 |
| specified | |

California Prop. 65

WARNING: This product can expose you to chemicals including Distillates (petroleum), hydrotreated light; Kerosine — unspecified, which is/are known to the State of California to cause cancer, and

methanol, ethanediol, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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

TSCA

: Product contains substance(s) not listed on TSCA inventory.

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

Federal Insecticide, Fungicide and Rodenticide Act

EPA Registration Number : 352-834

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

CAUTION

Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. May be harmful if swallowed.



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SECTION 16. OTHER INFORMATION

Information Source and References

This SDS is prepared by Product Regulatory Services and Hazard Communications Groups from information supplied by internal references within our company.

Full text of other abbreviations

| ACGIH | : | USA. ACGIH Threshold Limit Values (TLV) |
|----------------|---|---|
| OSHA Z-1 | : | USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim- |
| | | its for Air Contaminants |
| US WEEL | : | USA. Workplace Environmental Exposure Levels (WEEL) |
| ACGIH / TWA | : | 8-hour, time-weighted average |
| OSHA Z-1 / TWA | : | 8-hour time weighted average |
| US WEEL / TWA | : | 8-hr TWA |

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; 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; HMIS - Hazardous Materials Identification System; 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ -Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance 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

Revision Date

02/04/2022

Product code: GF-4207



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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 given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

US/EN