according to the OSHA Hazard Communication Standard



Methyl Salicylate / Diclofenac Formulation

| Version | Revision Date: | SDS Number: | Date of last issue: 09/30/2023 |
|---------|----------------|--------------|---------------------------------|
| 8.5 | 09/28/2024 | 656972-00019 | Date of first issue: 05/02/2016 |

SECTION 1. IDENTIFICATION

| Product name | : | Methyl Salicylate / Diclofenac Formulation | | | | | |
|---|---|--|--|--|--|--|--|
| Manufacturer or supplier's details | | | | | | | |
| Company name of supplier Address | | Merck & Co., Inc 126 E. Lincoln Avenue Rahway, New Jersey U.S.A. 07065 | | | | | |
| Telephone Emergency telephone E-mail address | : | 908-740-4000 1-908-423-6000 EHSDATASTEWARD@merck.com | | | | | |
| Recommended use of the chemical and restrictions on use | | | | | | | |
| Recommended use Restrictions on use | : | Veterinary product Not applicable | | | | | |

SECTION 2. HAZARDS IDENTIFICATION

| GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200) | | | | |
|---|---|--|--|--|
| Serious eye damage | : | Category 1 | | |
| Skin sensitization | : | Category 1 | | |
| Reproductive toxicity | : | Category 2 | | |
| Specific target organ toxicity - repeated exposure | : | Category 1 (Gastrointestinal tract, Blood, lymphatic system, Liver, Prostate) | | |
| GHS label elements | | | | |
| Hazard pictograms | : | | | |
| Signal Word | : | Danger | | |
| Hazard Statements | : | H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H361d Suspected of damaging the unborn child. H372 Causes damage to organs (Gastrointestinal tract, Blood, lymphatic system, Liver, Prostate) through prolonged or repeated exposure. | | |
| Precautionary Statements | : | Prevention: P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P260 Do not breathe dust, fume, gas, mist, vapors or spray. P264 Wash skin thoroughly after handling. | | |

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| | P272 Contaminat the workplace. | drink or smoke when using this product. ed work clothing must not be allowed out of ctive gloves, protective clothing, eye protection | | | |
|--|---|--|--|--|--|
| | | и . | | | |
| | Response: | | | | |
| | P302 + P352 IF ON SKIN: Wash with plenty of soap and water P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously w water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER. P308 + P313 IF exposed or concerned: Get medical attention P333 + P313 If skin irritation or rash occurs: Get medical attention. P363 Wash contaminated clothing before reuse. Storage: | | | | |
| | | | | | |
| | - | | | | |
| | P501 Dispose of contents and container to an approved waste | | | | |
| | | P305 + P351 + P3 water for several and easy to do. C CENTER. P308 + P313 IF e P333 + P313 If sk tion. P363 Wash conta Storage: P405 Store locked Disposal: | | | |

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

: Mixture

Components

| Chemical name | CAS-No. | Concentration (% w/w) | | | |
|-------------------------------------|------------|-----------------------|--|--|--|
| Petrolatum | 8009-03-8 | >= 70 - < 90 | | | |
| Zinc oxide | 1314-13-2 | >= 10 - < 20 | | | |
| Methyl salicylate | 119-36-8 | >= 1 - < 5 | | | |
| Sodium [2-[(2,6- | 15307-79-6 | >= 1 - < 5 | | | |
| dichlorophenyl)amino]phenyl]acetate | | | | | |
| (+)-Bornan-2-one | 464-49-3 | >= 1 - < 5 | | | |

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

| General advice | : | In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medical advice. |
|-------------------------|---|--|
| If inhaled | : | If inhaled, remove to fresh air. Get medical attention. |
| In case of skin contact | : | In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. |

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| In cas | se of eye contact | : In case of cor for at least 15 | | | |
| lf swa | llowed | Get medical a : If swallowed, Get medical a | If easy to do, remove contact lens, if worn. Get medical attention immediately. If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water. | | |
| | important symptoms ffects, both acute and ed | : May cause ar Causes serio Suspected of Causes dama | May cause an allergic skin reaction. Causes serious eye damage. Suspected of damaging the unborn child. Causes damage to organs through prolonged or repeated | | |
| Prote | ction of first-aiders | and use the r | onders should pay attention to self-protection, ecommended personal protective equipment ential for exposure exists (see section 8). | | |
| Notes | s to physician | : Treat sympto | matically and supportively. | | |

| Suitable extinguishing media | : | Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical |
|--|---|---|
| Unsuitable extinguishing media | : | None known. |
| Specific hazards during fire fighting | : | Exposure to combustion products may be a hazard to health. |
| Hazardous combustion prod- ucts | : | Carbon oxides Chlorine compounds Nitrogen oxides (NOx) Sodium oxides |
| Specific extinguishing meth- ods | : | Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area. |
| Special protective equipment for fire-fighters | : | In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment. |

SECTION 6. ACCIDENTAL RELEASE MEASURES

| Personal precautions, protec- tive equipment and emer- gency procedures | : | Use personal protective equipment. Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8). |
|---|---|---|
| Environmental precautions | : | Avoid release to the environment. |



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| | | Retain and dispose | akage or spillage if safe to do so. se of contaminated wash water. should be advised if significant spillages ned. |
| Methods and materials for containment and cleaning up | | container for disp Local or national disposal of this m employed in the c determine which Sections 13 and | uum up spillage and collect in suitable osal. regulations may apply to releases and aterial, as well as those materials and items cleanup of releases. You will need to regulations are applicable. 15 of this SDS provide information regarding ational requirements. |

SECTION 7. HANDLING AND STORAGE

| Technical measures | : See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section. |
|--|--|
| Local/Total ventilation Advice on safe handling | Use only with adequate ventilation. Do not get on skin or clothing. Do not breathe dust, fume, gas, mist, vapors or spray. Do not swallow. Do not get in eyes. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment Keep container tightly closed. Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to the environment. |
| Conditions for safe storage | Keep in properly labeled containers. Store locked up. Keep tightly closed. Store in accordance with the particular national regulations. |
| Materials to avoid | : Do not store with the following product types: Strong oxidizing agents Self-reactive substances and mixtures Organic peroxides Explosives Gases |

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 |
|------------|-----------|-------------------------------------|--|----------|
| Petrolatum | 8009-03-8 | TWA (Mist) | 5 mg/m³ | OSHA Z-1 |
| | | TWA (Inhal- | 5 mg/m³ | ACGIH |



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| I | | I | able particu- | I | 1 |
| | | | late matter) | | |
| | | | TWA (Mist) | 5 mg/m ³ | NIOSH RE |
| | | | ST (Mist) | 10 mg/m ³ | NIOSH RE |
| Zinc c | oxide | 1314-13-2 | TWA (Res- | 2 mg/m ³ | ACGIH |
| | | | pirable par- | 5 | |
| | | | ticulate mat- | | |
| | | | ter) | | |
| | | | STEL (Res- | 10 mg/m ³ | ACGIH |
| | | | pirable par- | | |
| | | | ticulate mat- | | |
| | | | ter) | | |
| | | | TWA (Dust) | 5 mg/m³ | NIOSH RE |
| | | | TWA | 5 mg/m³ | NIOSH RE |
| | | | (Fumes) | | |
| | | | ST (Fumes) | 10 mg/m ³ | NIOSH RE |
| | | | C (Dust) | 15 mg/m ³ | NIOSH RE |
| | | | TWA | 5 mg/m³ | OSHA Z-1 |
| | | | (Fumes) | | |
| | | | TWA (total | 15 mg/m³ | OSHA Z-1 |
| | | | dust) | - / 2 | |
| | | | TWA (respir- | 5 mg/m³ | OSHA Z-1 |
| 0 1 | | 45007 70 0 | able fraction) | | |
| dichlo | m [2-[(2,6- | 15307-79-6 | TWA | 100 µg/m3 (OEB | Internal |
| | - | | | 2) | |
| pheny | /l)amino]phenyl]acetate | Further inform | ation: Skin | | |
| | ornan-2-one | 464-49-3 | TWA | 2 mg/m ³ | OSHA Z-1 |
| (+)-D(| | 404-49-3 | TWA | , , , , , , , , , , , , , , , , , , , | ACGIH |
| | | | STEL | 2 ppm 3 ppm | ACGIH |
| | | | TWA | | NIOSH RE |
| | | | IVVA | 2 mg/m ³ | |

| Engineering measures : Personal protective equipmen | Ensure adequate ventilation, especially in confined areas. Minimize workplace exposure concentrations. |
|--|--|
| | |
| Respiratory protection : | General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection. |
| Hand protection | |
| Material : | Chemical-resistant gloves |
| Remarks : | Choose gloves to protect hands against chemicals depending |



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| | | time is not dete For special appresistance to c gloves with the breaks and at | tration specific to place of work. Breakthrough ermined for the product. Change gloves often! plications, we recommend clarifying the hemicals of the aforementioned protective glove manufacturer. Wash hands before the end of workday. | | | | |
| Eye p | protection | : Wear the following personal protective equipment: Chemical resistant goggles must be worn. If splashes are likely to occur, wear: Face-shield | | | | | |
| Skin | and body protection | resistance data potential. | iate protective clothing based on chemical a and an assessment of the local exposure nust be avoided by using impervious protective | | | | |
| Hygie | ene measures | clothing (glove : If exposure to eye flushing sy working place. When using do Contaminated workplace. | s, aprons, boots, etc). chemical is likely during typical use, provide vstems and safety showers close to the | | | | |

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

| Appearance | : | ointment |
|---|---|---|
| Color | : | light red |
| Odor | : | aromatic |
| Odor Threshold | : | No data available |
| рН | : | No data available |
| Melting point/freezing point | : | No data available |
| Initial boiling point and boiling range | : | No data available |
| Flash point | : | No data available |
| Evaporation rate | : | No data available |
| Flammability (solid, gas) | : | Not classified as a flammability hazard |
| Flammability (liquids) | : | No data available |
| Upper explosion limit / Upper flammability limit | : | No data available |
| Lower explosion limit / Lower flammability limit | : | No data available |





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| | Vapor p | pressure | : | No data available | 9 |
| | Relative | e vapor density | : | No data available | 9 |
| | Relative | e density | : | No data available | 9 |
| | Density | , | : | No data available | 9 |
| | Solubili Wat | ty(ies) er solubility | : | No data available |) |
| | | n coefficient: n- | : | No data available | 9 |
| | octanol, Autoign | /water iition temperature | : | No data available | 9 |
| | Decom | position temperature | : | No data available |) |
| | Viscosi Visc | ty osity, kinematic | : | No data available | 9 |
| | Explosi | ve properties | : | Not explosive | |
| | Oxidizir | ng properties | : | The substance o | r mixture is not classified as oxidizing. |
| | Molecu | lar weight | : | No data available | 9 |
| | Particle Particle | characteristics size | : | No data available |) |

SECTION 10. STABILITY AND REACTIVITY

| Reactivity Chemical stability Possibility of hazardous reac- tions | : | Not classified as a reactivity hazard. Stable under normal conditions. Can react with strong oxidizing agents. |
|--|---|--|
| Conditions to avoid Incompatible materials Hazardous decomposition products | : | None known. Oxidizing agents No hazardous decomposition products are known. |

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Skin contact Ingestion Eye contact

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity

: Acute toxicity estimate: 4,005 mg/kg



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| | | | Method: Calculati | on method |
| Acute | inhalation toxicity | : | Acute toxicity esti Exposure time: 4 Test atmosphere: Method: Calculati | h dust/mist |
| Com | oonents: | | | |
| Petro | latum: | | | |
| Acute | e oral toxicity | : | LD50 (Rat): > 5,0 Method: OECD To Remarks: Based o | |
| Acute | e dermal toxicity | : | toxicity | |
| Zinc | oxide: | | | |
| Acute | oral toxicity | : | LD50 (Rat): > 5,0 | 00 mg/kg |
| Acute | inhalation toxicity | : | LC50 (Rat): > 5.7 Exposure time: 4 Test atmosphere: Assessment: The tion toxicity | h |
| Acute | e dermal toxicity | : | LD50 (Rat): > 2,0 Method: OECD To Assessment: The toxicity | |
| Meth | yl salicylate: | | | |
| Acute | oral toxicity | : | LD50 (Rat): 890 n | ng/kg |
| Sodiı | ım [2-[(2,6-dichlorophe | nyl |)amino]phenyl]ac | etate: |
| Acute | oral toxicity | : | LD50 (Rat): 55 - 2 | 240 mg/kg |
| | | | LD50 (Mouse): 17 | 70 - 389 mg/kg |
| | toxicity (other routes of nistration) | : | LD50 (Rat): 97 - 1 Application Route | |
| | | | LD50 (Mouse): 92 Application Route | |
| . , | ornan-2-one: | | LD50 (Mouse): > | 300 - 2 000 ma/ka |

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| | | | Remarks: Based | on data from similar materials |
| | | | Method: Expert ju | imate (Humans): > 50 - 500 mg/kg udgment on data from similar materials |
| Acute | inhalation toxicity | : | Exposure time: 4 Test atmosphere: | h |
| Acute | e dermal toxicity | : | LD50 (Rat): > 2,0 Remarks: Based | 00 mg/kg on data from similar materials |
| - | corrosion/irritation lassified based on avai | ilable | information. | |
| Com | ponents: | | | |
| Petro Speci Metho Resul Rema | od It | : | Rabbit OECD Test Guide No skin irritation Based on data fro | eline 404 om similar materials |
| Zinc Speci Metho Resul | bd | : | Rabbit OECD Test Guide No skin irritation | eline 404 |
| Meth Speci Metho Resu | bc | : | Rabbit OECD Test Guide No skin irritation | eline 404 |
| Sodiu | um [2-[(2,6-dichloroph | heny |)amino]phenyl]ac | setate: |
| Resu | lt | : | irritating | |
| (+)-B o Speci Resul Rema | lt | : | Rabbit No skin irritation Based on data fro | om similar materials |
| Serio | us eye damage/eye ir | rritati | ion | |
| | es serious eye damage | Э. | | |
| <u>Com</u> | ponents: | | | |
| Petro Speci | es | : | Rabbit | |

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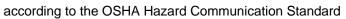


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|---|--|-----------------------|---|---|
| Result Metho Rema | d | : | No eye irritation OECD Test Guid Based on data fre | leline 405 om similar materials |
| Zinc o | oxide: | | | |
| Specie | | : | Rabbit | |
| Result Metho | | : | No eye irritationOECD Test Guideline 405 | |
| Methy | vl salicylate: | | | |
| Specie | | : | Tissue Culture | |
| Metho | D | : | OECD Test Guid | eline 491 |
| Result | t | : | Irreversible effec | ts on the eye |
| | m [2-[(2,6-dichlorop | ohenyl | , ., , . | |
| Result | t | : Mild eye irritation | | I |
| (+)-Bo | ornan-2-one: | | | |
| Result Rema | | : | Eye irritation Based on data fro | om similar materials |
| | | | | |
| Respi | ratory or skin sensi | itizatio | n | |
| - | ratory or skin sensi sensitization | itizatio | n | |
| Skin s | - | | | |
| Skin s May ca Respi | sensitization | reactio | on. | |
| Skin s May ca Respi Not cla | sensitization ause an allergic skin ratory sensitization | reactio | on. | |
| Skin s May ca Respi Not cla | sensitization ause an allergic skin ratory sensitization assified based on ava conents: | reactio | on. | |
| Skin s May ca Respi Not cla <u>Comp</u> Petrol Test T | sensitization ause an allergic skin ratory sensitization assified based on ava <u>conents:</u> latum: ype | reactio | on. information. Buehler Test | |
| Skin s May ca Respi Not cla <u>Comp</u> Petrol Test T Routes | sensitization ause an allergic skin ratory sensitization assified based on ava conents: latum: ype s of exposure | reactio | on. information. Buehler Test Skin contact | |
| Skin s May ca Respi Not cla <u>Comp</u> Petrol Test T Routes Specie Result | sensitization ause an allergic skin ratory sensitization assified based on ava <u>conents:</u> latum: ype s of exposure es | reactio | on. information. Buehler Test Skin contact Guinea pig negative | |
| Skin s May ca Respi Not cla <u>Comp</u> Petrol Test T Route Specie | sensitization ause an allergic skin ratory sensitization assified based on ava <u>conents:</u> latum: ype s of exposure es | reactio | on. information. Buehler Test Skin contact Guinea pig negative | om similar materials |
| Skin s May ca Respi Not cla <u>Comp</u> Petrol Test T Routes Specie Result | sensitization ause an allergic skin ratory sensitization assified based on ava conents: latum: ype s of exposure es t rks | reactio | on. information. Buehler Test Skin contact Guinea pig negative | om similar materials |
| Skin s May ca Respi Not cla Comp Petrol Test T Routes Specie Result Remain Zinc o Test T | sensitization ause an allergic skin ratory sensitization assified based on avain conents: latum: Type s of exposure es t rks | reactio | on. information. Buehler Test Skin contact Guinea pig negative Based on data fro Maximization Tes | |
| Skin s May ca Respi Not cla Comp Petrol Test T Routes Specie Result Remain Zinc o Test T Routes | sensitization ause an allergic skin ratory sensitization assified based on avain onents: latum: Type s of exposure es trks oxide: Type s of exposure | reactio | on. information. Buehler Test Skin contact Guinea pig negative Based on data fre Maximization Tes Skin contact | |
| Skin s May ca Respi Not cla Comp Petrol Test T Routes Specie Result Remain Zinc o Test T | sensitization ause an allergic skin ratory sensitization assified based on avaination conents: latum: Type s of exposure es trks oxide: Type s of exposure es | reactio | on. information. Buehler Test Skin contact Guinea pig negative Based on data fro Maximization Tes | st |
| Skin s May ca Respi Not cla Comp Petrol Test T Routes Specie Result Remain Zinc o Test T Routes Specie | sensitization ause an allergic skin ratory sensitization assified based on avaination conents: latum: Type s of exposure es t rks byide: Type s of exposure es t s of exposure es | reactio | on. information. Buehler Test Skin contact Guinea pig negative Based on data fro Maximization Tes Skin contact Guinea pig | st |
| Skin s May ca Respi Not cla Comp Petrol Test T Routes Specie Result Remai Zinc o Test T Routes Specie Metho Result | sensitization ause an allergic skin ratory sensitization assified based on avaination conents: latum: Type s of exposure es t rks byide: Type s of exposure es t s of exposure es | reactio | on. information. Buehler Test Skin contact Guinea pig negative Based on data fro Maximization Test Skin contact Guinea pig OECD Test Guid | st |
| Skin s May ca Respi Not cla Comp Petrol Test T Routes Specie Result Remai Zinc o Test T Routes Specie Metho Result Methy Test T | sensitization ause an allergic skin ratory sensitization assified based on avaination conents: latum: ype s of exposure es t rks oxide: ype s of exposure es t rks | reactio | on. information. Buehler Test Skin contact Guinea pig negative Based on data fro Maximization Test Skin contact Guinea pig OECD Test Guid | st Ieline 406 |

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| | ecies sult | : | Mouse positive | |
| As | sessment | : | Probability or e rate in humans | vidence of low to moderate skin sensitization |
| Te Ro Sp Me Re | -Bornan-2-one: st Type utes of exposure ecies thod sult marks | : | Buehler Test Skin contact Guinea pig OECD Test Gu negative Based on data | ideline 406 from similar materials |
| No | rm cell mutagenicity t classified based on ava mponents: | ailable | information. | |
| Pe | trolatum: | | | |
| Ge | notoxicity in vitro | : | Result: negativ | omosome aberration test in vitro e ed on data from similar materials |
| Ge | notoxicity in vivo | : | cytogenetic ass Species: Mous Application Roo Method: OECD Result: negativ | e ute: Intraperitoneal injection Test Guideline 474 |
| 7ir | ic oxide: | | | |
| | notoxicity in vitro | : | Test Type: Bac Result: negativ | terial reverse mutation assay (AMES) e |
| | | | | itro mammalian cell gene mutation test Test Guideline 476 cal |
| | | | Test Type: Chr Result: equivoo | omosome aberration test in vitro al |
| Ge | notoxicity in vivo | : | cytogenetic ass Species: Rat Application Rot Method: OECD Result: negativ | ute: inhalation (dust/mist/fume) Test Guideline 474 |
| | | | | t, chromosomal analysis) |





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| | | Species: Ra Application I Result: posit | Route: inhalation (dust/mist/fume) |
| | | cytogenetic Species: Mo Application I | ouse Route: Intraperitoneal injection CD Test Guideline 474 |
| | cell mutagenicity - ssment | - | vidence does not support classification as a germ |
| Meth | yl salicylate: | | |
| - | toxicity in vitro | : Test Type: 0 Result: nega | Chromosome aberration test in vitro ative |
| | | Test Type: E Result: nega | Bacterial reverse mutation assay (AMES) ative |
| Sodiı | ım [2-[(2,6-dichlorop | henyl)amino]phen | yl]acetate: |
| Geno | toxicity in vitro | : Test Type: E Result: nega | Bacterial reverse mutation assay (AMES) ative |
| | | Test Type: N Result: nega | <i>f</i> louse Lymphoma ative |
| Geno | toxicity in vivo | : Test Type: 0 Species: CH Result: nega | |
| (+)-B(| ornan-2-one: | | |
| Geno | toxicity in vitro | Result: nega | Bacterial reverse mutation assay (AMES) ative ased on data from similar materials |
| | | Method: OE Result: nega | n vitro mammalian cell gene mutation test CD Test Guideline 476 ative ased on data from similar materials |
| | | Test Type: 0 Result: nega | Chromosome aberration test in vitro ative |
| Geno | toxicity in vivo | cytogenetic Species: Mo Application I Result: nega | Route: Ingestion |

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| | | cytogenetic assay) Species: Mouse Application Route: Result: negative | |
| Carci | nogenicity | | |
| Not cl | assified based on av | ailable information. | |
| Comp | onents: | | |
| Petro | latum: | | |
| Specie Applic | es cation Route sure time | : Rat : Ingestion : 2 Years : negative | |
| Zinc o | oxide: | | |
| | cation Route sure time t | : Mouse : Ingestion : 1 Years : negative : Based on data fror | m similar materials |
| Methy | /I salicylate: | | |
| Specie Applic | es cation Route sure time | : Rat : Ingestion : 2 Years : negative | |
| Sodiu | um [2-[(2.6-dichloro | phenyl)amino]phenyl]ace | etate: |
| Specie Applic | es cation Route sure time | : Rat : Oral : 2 Years : negative | |
| | ation Route | : Mouse : Oral : 2 Years : negative | |
| IARC | | | at levels greater than or equal to 0.1% is nfirmed human carcinogen by IARC. |
| OSHA | | nent of this product presen s list of regulated carcinoge | it at levels greater than or equal to 0.1% is ens. |
| NTP | | ent of this product present as a known or anticipated o | at levels greater than or equal to 0.1% is carcinogen by NTP. |

according to the OSHA Hazard Communication Standard



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|------------|------------------|---|------|--|--|
| | • | ductive toxicity cted of damaging the u | nboi | rn child. | |
| | | onents: | | | |
| | Petrola | atum: | | | |
| | Effects | on fertility | : | test Species: Rat Application Route Result: negative | duction/Developmental toxicity screening : Ingestion on data from similar materials |
| | Effects | on fetal development | : | Species: Rat Application Route Result: negative | ro-fetal development : Skin contact on data from similar materials |
| | Zinc o | xide: | | | |
| | Effects | on fertility | : | Species: Rat Application Route Result: negative | eneration reproduction toxicity study : Ingestion on data from similar materials |
| | Effects | on fetal development | : | Species: Rat Application Route Method: OECD To Result: negative | ro-fetal development : inhalation (dust/mist/fume) est Guideline 414 on data from similar materials |
| | Methyl | salicylate: | | | |
| | Effects | on fertility | : | Test Type: Three- Species: Rat Application Route Result: negative | generation reproduction toxicity study |
| | Effects | on fetal development | : | Species: Rat Application Route Result: positive Remarks: Based of | on data from similar materials |
| | | | | Species: Monkey Application Route Result: positive | ro-fetal development : Ingestion on data from similar materials |
| | Reproc sessme | luctive toxicity - As- ent | : | Some evidence of animal experimen | f adverse effects on development, based on ts. |

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|----------------|--|------|--|---|
| | um [2-[(2,6-dichloroph | enyl | | - |
| Effect | ts on fertility | : | Application Ro | male and female ute: Oral EL: 4 mg/kg body weight |
| Effect | ts on fetal development | : | | |
| | | | | it |
| Repro sessn | oductive toxicity - As- nent | : | Suspected of o | damaging the unborn child. |
| (+)-B | ornan-2-one: | | | |
| Effect | ts on fetal development | : | Test Type: Em Species: Rat Application Ro Result: negativ | |
| | -single exposure lassified based on availa | able | information. | |
| Com | oonents: | | | |
| (+)-B | ornan-2-one: | | | |
| | ssment | : | | piratory irritation. from similar materials |
| STOT | -repeated exposure | | | |
| | es damage to organs (C gh prolonged or repeate | | | , Blood, lymphatic system, Liver, Prostate) |
| Com | oonents: | | | |
| Zinc | oxide: | | | |
| Asses | ssment | : | No significant tions of 0.2 mg | health effects observed in animals at concent ///6h/d or less. |
| Sodiu | um [2-[(2,6-dichloroph | enyl |)amino]phenyl |]acetate: |
| Targe | et Organs ssment | : | Gastrointestina | al tract, Blood, lymphatic system, Liver, Prost ge to organs through prolonged or repeated |

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| ersion 5 | Revision Date: 09/28/2024 | SDS Number: 656972-00019 | Date of last issue: 09/30/2023 Date of first issue: 05/02/2016 |
|--------------|------------------------------|-----------------------------|---|
| Rene | ated dose toxicity | | |
| • | ponents: | | |
| | platum: | | |
| | | : Rat | |
| Spec NOAI | | : 5,000 mg/kg | |
| - | cation Route | : Ingestion | |
| | sure time | : 2 y | |
| Zinc | oxide: | | |
| Spec | ies | : Rat, male | |
| NOA | | : 0.0015 mg/l | |
| | cation Route | : inhalation (dus | st/mist/fume) |
| | sure time | : 3 Months | |
| Metho | od | : OECD Test Gu | uideline 413 |
| | yl salicylate: | | |
| Spec | | : Rat | |
| NOA | | : 50 mg/kg | |
| LOAE | | : 250 mg/kg | |
| | cation Route sure time | : Ingestion : 2 y | |
| Слро | | . <i>2</i> y | |
| Sodiu | um [2-[(2,6-dichloro | ohenyl)amino]phenyl |]acetate: |
| Spec | | : Rat | |
| LOAE | | : 0.25 mg/kg | |
| | cation Route | : Oral | |
| | sure time | : 98 w | alter at Dia ad here hat's avetage liver. Draat |
| Targe | et Organs | : Gastrointestina | al tract, Blood, lymphatic system, Liver, Prost |
| Spec | | : Dog | |
| LOAE | | : 1 mg/kg | |
| | cation Route | : Oral | |
| | sure time | : 12 w | |
| large | et Organs | : Blood | |
| Spec | | : Baboon | |
| NOA | | : 0.5 mg/kg | |
| LOAE | | : 5 mg/kg | |
| | cation Route | : Oral | |
| | sure time | : 52 w | al tra st. Dis a d |
| | et Organs | : Gastrointestina | • |
| Symp | otoms | : constipation, D | אוווידים |
| (+)-B | ornan-2-one: | | |
| Spec | ies | : Rat | |

| Species | : | Rat |
|-------------------|---|--------------|
| NOAEL | : | > 200 mg/kg |
| Application Route | : | Skin contact |
| Exposure time | : | 13 Weeks |

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| ersi .5 | ion | Revision Date: 09/28/2024 | | 9S Number: 6972-00019 | Date of last issue: 09/30/2023 Date of first issue: 05/02/2016 |
|------------|---------------------------|---|------------|--|---|
| | Remarl | ks | : | Based on data fro | om similar materials |
| | - | tion toxicity ssified based on availa | ble | information. | |
| | Experie | ence with human exp | osu | ire | |
| | Compo | onents: | | | |
| | Sodiun Ingestic | n [2-[(2,6-dichlorophe on | enyl) : | Symptoms: Abdor | etate: minal pain, Diarrhea, constipation, heartburn ess, Headache, Breathing difficulties, Rash |
| EC | TION 1 | 2. ECOLOGICAL INFO | DRN | IATION | |
| | Ecotox | vicity | | | |
| | | • | | | |
| | | onents: | | | |
| | Petrola Toxicity | atum: / to fish | : | Exposure time: 96 Test substance: V Method: OECD T | Vater Accommodated Fraction |
| | | / to daphnia and other invertebrates | : | Exposure time: 48 Test substance: V | nagna (Water flea)): > 10,000 mg/l 3 h Vater Accommodated Fraction on data from similar materials |
| | Toxicity plants | / to algae/aquatic | : | 100 mg/l Exposure time: 72 Test substance: V Method: OECD T | Vater Accommodated Fraction |
| ÷ | | / to daphnia and other invertebrates (Chron- ity) | : | Exposure time: 2 ² Test substance: V | nagna (Water flea)): 10 mg/l l d Vater Accommodated Fraction on data from similar materials |
| | Zinc o | xide: | | | |
| | | / to fish | : | Exposure time: 96 | |
| | Toxicity plants | / to algae/aquatic | : | ErC50 (Pseudokir mg/l Exposure time: 72 | rchneriella subcapitata (green algae)): 0.136 2 h |
| | | | | NOEC (Pseudoki | rchneriella subcapitata (green algae)): > 0.0° |



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| | | | - 0.1 mg/l Exposure time: 72 Remarks: Based o | 2 h on data from similar materials |
| To» icity | <pre>kicity to fish (Chronic tox- /)</pre> | : | Exposure time: 14 | a floridae (flagfish)): > 0.01 - 0.1 mg/l I Weeks on data from similar materials |
| aqu | cicity to daphnia and other natic invertebrates (Chron- oxicity) | : | Exposure time: 7 | nnia dubia (water flea)): > 0.01 - 0.1 mg/l d on data from similar materials |
| Me | thyl salicylate: | | | |
| | kicity to fish | : | mg/l Exposure time: 96 | s promelas (fathead minnow)): > 10 - 100 S h on data from similar materials |
| | cicity to daphnia and other atic invertebrates | : | Exposure time: 48 Method: OECD Te | |
| To» plai | cicity to algae/aquatic nts | : | ErC50 (Desmodes Exposure time: 72 Method: OECD Te | |
| | | | NOEC (Desmode: Exposure time: 72 Method: OECD Te | |
| То | cicity to microorganisms | : | EC10 (Pseudomo Exposure time: 16 | nas putida): 140 mg/l S h |
| So | dium [2-[(2,6-dichlorophe | enyl |)amino]phenyl]ac | etate: |
| То> | cicity to fish | : | LC50 (Pimephales Exposure time: 96 Method: OECD Te | |
| | cicity to daphnia and other atic invertebrates | : | EC50 (Daphnia m Exposure time: 48 Method: OECD Te | |
| To» plai | vicity to algae/aquatic nts | : | EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD Te | |
| | | | NOEC (Pseudokir mg/l Exposure time: 72 Method: OECD Te | |

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| ersion 5 | Revision Date: 09/28/2024 | | OS Number: 6972-00019 | Date of last issue: 09/30/2023 Date of first issue: 05/02/2016 |
|-----------------|---|-----|---|---|
| Toxic icity) | ity to fish (Chronic tox- | : | Exposure time: | nales promelas (fathead minnow)): 0.32 mg/l 32 d r Test Guideline 210 |
| | ity to daphnia and other tic invertebrates (Chron- icity) | : | Exposure time: | a magna (Water flea)): 10 mg/l 21 d Test Guideline 211 |
| (+)-B | ornan-2-one: | | | |
| Toxic | ity to fish | : | Exposure time: Method: OECD | erio (zebra fish)): > 10 - 100 mg/l 96 h 9 Test Guideline 203 ed on data from similar materials |
| | ity to daphnia and other tic invertebrates | : | Exposure time: Method: OECD | a magna (Water flea)): > 1 - 10 mg/l 48 h 9 Test Guideline 202 ed on data from similar materials |
| Toxic plants | ity to algae/aquatic | : | 10 mg/l Exposure time: Method: OECD | okirchneriella subcapitata (green algae)): > 1 - 72 h 9 Test Guideline 201 ed on data from similar materials |
| | | | - 0.1 mg/l Exposure time: Method: OECD | okirchneriella subcapitata (green algae)): > 0.0 72 h 9 Test Guideline 201 ed on data from similar materials |
| Toxic | ity to microorganisms | : | | |
| Persi | stence and degradabili | ity | | |
| <u>Com</u> | ponents: | | | |
| | egradability | : | Biodegradation Exposure time: Method: OECD | |
| Meth | yl salicylate: | | | |
| | gradability | : | Result: Readily Biodegradation Exposure time: | |
| | | | | |

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Methyl Salicylate / Diclofenac Formulation

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|----------------|---|-----------------------------|--|
| • • | ornan-2-one: gradability | Method: OEC | ly biodegradable. D Test Guideline 301F sed on data from similar materials |
| Bioad | cumulative potentia | I | |
| Com | oonents: | | |
| | oxide: cumulation | | orhynchus mykiss (rainbow trout) tion factor (BCF): 78 - 2,060 |
| Partiti | yl salicylate: ion coefficient: n- ol/water | : log Pow: 2.55 | |
| Sodiu | um [2-[(2,6-dichlorop | henyl)amino]pheny | l]acetate: |
| | ion coefficient: n- ol/water | : log Pow: 4.51 | |
| Partiti | ornan-2-one: ion coefficient: n- ol/water | : log Pow: 2.3 | |
| | l ity in soil ata available | | |
| | r adverse effects ata available | | |

| Disposal methods | |
|------------------------|---|
| Waste from residues | : Dispose of in accordance with local regulations. Do not dispose of waste into sewer. |
| Contaminated packaging | Empty containers should be taken to an approved waste handling site for recycling or disposal. If not otherwise specified: Dispose of as unused product. |

SECTION 14. TRANSPORT INFORMATION

| UNRTDG UN number Proper shipping name | UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, S N.O.S. (Zinc oxide, Sodium [2-[(2,6- disblarenham/laminalnham/lagatata) | OLID, |
|--|--|-------|
| Class | dichlorophenyl)amino]phenyl]acetate) 9 | |



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|---|--|----------|---|--|
| Packir | ng group | : | III | |
| Labels | | : | 9 | |
| Enviro | onmentally hazardous | : | yes | |
| IATA- | DGR | | | |
| UN/ID | No. | : | UN 3077 | |
| Prope | r shipping name | : | Environmentally I | nazardous substance, solid, n.o.s. |
| | | | (Zinc oxide, Sodi | ium [2-[(2,6- nino]phenyl]acetate) |
| Class | | | 9 | ninojphenyijacetate) |
| | ng group | : | 9 III | |
| Labels | | : | Miscellaneous | |
| | ng instruction (cargo | : | 956 | |
| aircraf | | · | 330 | |
| Packir | ng instruction (passen- | : | 956 | |
| ger air | | | | |
| | onmentally hazardous | • | yes | |
| | -Code | | | |
| UN nu | | : | UN 3077 | |
| Prope | r shipping name | : | N.O.S. | ALLY HAZARDOUS SUBSTANCE, SOLID, |
| | | | | um [2] [/2 6 |
| | | | (Zinc oxide, Sodi | nino]phenyl]acetate) |
| Class | | : | 9 | |
| Packir | ng group | : | 111 | |
| Labels | | : | 9 | |
| EmS (| Code | : | F-A, S-F | |
| Marine | e pollutant | : | yes | |
| Trans | port in bulk according | j to | Annex II of MARF | OL 73/78 and the IBC Code |
| Trans | | | olied. | |
| | oplicable for product as | sup | 1 | |
| Not ap | oplicable for product as estic regulation | sup | | |
| Not ap Dome 49 CF | estic regulation | sup | | |
| Not ap Dome 49 CF UN/ID | restic regulation R /NA number | sup : | UN 3077 | |
| Not ap Dome 49 CF UN/ID | estic regulation | | UN 3077 Environmentally I | nazardous substance, solid, n.o.s. |
| Not ap Dome 49 CF UN/ID | restic regulation R /NA number | | UN 3077 Environmentally I (Zinc oxide, Sodi | ium [2-[(2,6- |
| Not ap Dome 49 CF UN/ID Prope | restic regulation R /NA number | | UN 3077 Environmentally I (Zinc oxide, Sodi dichlorophenyl)ar | |
| Not ap Dome 49 CF UN/ID Prope | estic regulation R /NA number r shipping name | | UN 3077 Environmentally I (Zinc oxide, Sodi dichlorophenyl)ar 9 | ium [2-[(2,6- |
| Not ap Dome 49 CF UN/ID Prope Class Packir | estic regulation R /NA number r shipping name | | UN 3077 Environmentally I (Zinc oxide, Sodi dichlorophenyl)ar 9 III | ium [2-[(2,6- |
| Not ap Dome 49 CF UN/ID Prope Class Packir Labels | estic regulation R /NA number r shipping name ng group | | UN 3077 Environmentally I (Zinc oxide, Sodi dichlorophenyl)ar 9 III CLASS 9 | ium [2-[(2,6- |
| Not ap Dome 49 CF UN/ID Prope Class Packir Labels ERG (| estic regulation R /NA number r shipping name ng group s Code | | UN 3077 Environmentally I (Zinc oxide, Sodi dichlorophenyl)ar 9 III CLASS 9 171 | ium [2-[(2,6- nino]phenyl]acetate) |
| Not ap Dome 49 CF UN/ID Prope Class Packir Labels ERG (| estic regulation R /NA number r shipping name ng group | | UN 3077 Environmentally f (Zinc oxide, Sodi dichlorophenyl)ar 9 III CLASS 9 171 yes(Zinc oxide, S | ium [2-[(2,6- nino]phenyl]acetate) odium [2-[(2,6- |
| Not ap Dome 49 CF UN/ID Prope Class Packir Labels ERG (Marine | estic regulation R /NA number r shipping name ng group S Code e pollutant | | UN 3077 Environmentally f (Zinc oxide, Sodi dichlorophenyl)ar 9 III CLASS 9 171 yes(Zinc oxide, S dichlorophenyl)ar | ium [2-[(2,6- nino]phenyl]acetate) odium [2-[(2,6- nino]phenyl]acetate) |
| Not ap Dome 49 CF UN/ID Prope Class Packir Labels ERG (| estic regulation R /NA number r shipping name ng group S Code e pollutant | | UN 3077 Environmentally I (Zinc oxide, Sodi dichlorophenyl)ar 9 III CLASS 9 171 yes(Zinc oxide, S dichlorophenyl)ar Above applies on | ium [2-[(2,6- nino]phenyl]acetate) odium [2-[(2,6- |
| Not ap Dome 49 CF UN/ID Prope Class Packir Labels ERG (Marine | estic regulation R /NA number r shipping name ng group S Code e pollutant | | UN 3077 Environmentally I (Zinc oxide, Sodi dichlorophenyl)ar 9 III CLASS 9 171 yes(Zinc oxide, S dichlorophenyl)ar Above applies on liters. | ium [2-[(2,6- nino]phenyl]acetate) odium [2-[(2,6- nino]phenyl]acetate) ly to containers over 119 gallons or 450 |
| Not ap Dome 49 CF UN/ID Prope Class Packir Labels ERG (Marine | estic regulation R /NA number r shipping name ng group S Code e pollutant | | UN 3077 Environmentally I (Zinc oxide, Sodi dichlorophenyl)ar 9 III CLASS 9 171 yes(Zinc oxide, S dichlorophenyl)ar Above applies on liters. Shipment by grou | ium [2-[(2,6- nino]phenyl]acetate) odium [2-[(2,6- nino]phenyl]acetate) |

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

according to the OSHA Hazard Communication Standard



Methyl Salicylate / Diclofenac Formulation

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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

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

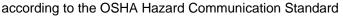
This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

| SARA 311/312 Hazards | | icity | r repeated exposure) |
|---|--|----------------------|---|
| SARA 313 | The following components are subject to reporting levels established by SARA Title III, Section 313: | | |
| | Zinc oxide | 1314-13-2 | >= 10 - < 20 % |
| US State Regulations | | | |
| Pennsylvania Right To Know Petrolatum Zinc oxide Methyl salicylate (+)-Bornan-2-one California List of Hazardous S Petrolatum | Substances | | 8009-03-8 1314-13-2 119-36-8 464-49-3 8009-03-8 |
| Zinc oxide Methyl salicylate (+)-Bornan-2-one | | | 1314-13-2 119-36-8 464-49-3 |
| California Permissible Expos | ure Limits for Chen | nical Contaminants | |
| Petrolatum Zinc oxide (+)-Bornan-2-one | | | 8009-03-8 1314-13-2 464-49-3 |
| The ingredients of this produ | ct are reported in tl | he following invente | ories: |
| AICS | not determined | | |
| DSL | : not determined | | |

IECSC : not determined





Methyl Salicylate / Diclofenac Formulation

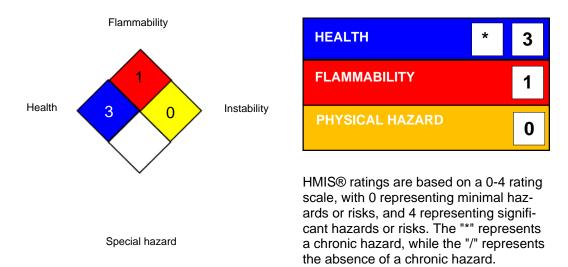
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SECTION 16. OTHER INFORMATION

Further information



HMIS® IV:



Full text of other abbreviations

| ACGIH NIOSH REL OSHA Z-1 | : | USA. ACGIH Threshold Limit Values (TLV) USA. NIOSH Recommended Exposure Limits USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim- its for Air Contaminants |
|---------------------------------|---|--|
| ACGIH / TWA ACGIH / STEL | | 8-hour, time-weighted average Short-term exposure limit |
| NIOSH REL / TWA | | Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek |
| NIOSH REL / ST | : | STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday |
| NIOSH REL / C OSHA Z-1 / TWA | | Ceiling value not be exceeded at any time. 8-hour time weighted average |

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% response; EMS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% response; EMS - 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 Chemical



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cals 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; 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

| Sources of key data used to : In | ternal technical data, data from raw material SDSs, OECD |
|----------------------------------|---|
| | Chem Portal search results and European Chemicals Agen- , http://echa.europa.eu/ |

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

US / Z8