

Permethrin Formulation

| Versior 4.0 | Revision Date: 28.09.2024 | | S Number: 9651-00018 | Date of last issue: 30.09.2023 Date of first issue: 02.08.2016 | | | |
|----------------|--------------------------------------|--------|-------------------------------------|-------------------------------------------------------------------|--|--|--|
| SECTI | SECTION 1. IDENTIFICATION | | | | | | |
| Pr | oduct identifier | : | Permethrin Form | nulation | | | |
| Ma | anufacturer or supplier's | s deta | ils | | | | |
| Co | ompany | : | MSD | | | | |
| Ac | ldress | : | Rua Coronel Ber Cruzeiro - Sao P | nto Soares, 530 Iaulo - Brazil CEP 12730-340 | | | |
| Τe | lephone | : | 908-740-4000 | | | | |
| Er | nergency telephone | : | 1-908-423-6000 | | | | |
| E- | mail address | : | EHSDATASTEW | /ARD@msd.com | | | |
| Re | commended use of the | chem | ical and restriction | ons on use | | | |
| | ecommended use estrictions on use | : | Veterinary produ Not applicable | ict | | | |

SECTION 2. HAZARDS IDENTIFICATION

| GHS Classification in accordance with ABNT NBR 14725 Standard | | | | | |
|---------------------------------------------------------------|---|------------------------------|--|--|--|
| Flammable liquids | · | Category 3 | | | |
| Acute toxicity (Oral) | : | Category 5 | | | |
| Skin irritation | : | Category 2 | | | |
| Eye irritation | : | Category 2A | | | |
| Skin sensitization | : | Category 1 | | | |
| Germ cell mutagenicity | : | Category 1B | | | |
| Carcinogenicity | : | Category 1B | | | |
| Reproductive toxicity | : | Category 2 | | | |
| Specific target organ toxicity - single exposure | : | Category 3 | | | |
| Specific target organ toxicity - repeated exposure | : | Category 2 (Auditory system) | | | |
| Aspiration hazard | : | Category 1 | | | |
| Short-term (acute) aquatic hazard | : | Category 1 | | | |



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| Long- hazar | term (chronic) aquatic d | : Category 1 | |
| - | label elements in acco rd pictograms | rdance with ABNT | NBR 14725 Standard |
| Signa | l Word | : Danger | · · · · |
| Hazaı | rd Statements | H303 May be H304 May be H315 Causes H317 May cau H319 Causes H336 May cau H340 May cau H350 May cau H361 Suspec H373 May cau prolonged or u | use an allergic skin reaction. serious eye irritation. use drowsiness or dizziness. use genetic defects. |
| Preca | utionary Statements | P210 Keep av and other igni P233 Keep co P264 Wash sl P271 Use on P272 Contam the workplace P273 Avoid re | elease to the environment. otective gloves/ protective clothing/ eye prote |
| | | CENTER/ doc P303 + P361 ly all contamir P304 + P340 and keep com doctor if you f P305 + P351 for several mi easy to do. Co P308 + P313 attention. P331 Do NOT | + P353 IF ON SKIN (or hair): Take off immentated clothing. Rinse skin with water. + P312 IF INHALED: Remove person to frest fortable for breathing. Call a POISON CENT |



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| | | vice/ attentior P337 + P313 tention. P391 Collect | If eye irritation persists: Get medical advice/ at- |
| | | Storage: P405 Store lo | ocked up. |

Other hazards which do not result in classification

Cutaneous sensations may occur, such as burning or stinging on the face and mucosae. However, these sensations cause no lesions and are of a transitory nature (max. 24 hours). Vapors may form explosive mixture with air.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Substance / Mixture | : | Mixture |
|---------------------|---|---------|
|---------------------|---|---------|

Components

| Chemical name | CAS-No. | Classification | Concentration (% w/w) |
|------------------------------------------------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| Solvent naphtha (petroleum), light aromatic | 64742-95-6 | Flam. Liq., 3 Skin Irrit., 2 Muta., 1B Carc., 1B STOT SE, 3 Asp. Tox., 1 Aquatic Acute, 2 Aquatic Chronic, 2 | 60 -70 |
| Xylene | 1330-20-7 | Flam. Liq., 3 Acute Tox. (Oral), 5 Acute Tox. (Inhala- tion), 5 Acute Tox. (Dermal), 5 Skin Irrit., 2 Eye Irrit., 2A STOT SE, 3 STOT RE, (Auditory system), 2 Asp. Tox., 1 Aquatic Acute, 2 Aquatic Chronic, 3 | 6 -16 |
| Permethrin (ISO) | 52645-53-1 | Acute Tox. (Oral), 4 Acute Tox. (Inhala- tion), 4 Skin Sens., 1 Aquatic Acute, 1 Aquatic Chronic, 1 | 11,76 |
| 4-Nonylphenol, branched, ethoxylated | 127087-87-0 | Repr., 2 Aquatic Acute, 1 Aquatic Chronic, 1 | 8,4 |
| Calcium bis(dodecylbenzenesulphonat | 70528-83-5 | Acute Tox. (Oral), 4 Acute Tox. (Dermal), 5 | 2,52 |



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| e), br | anched | | Skin Irrit., 2 Eye Dam., 1 Aquatic Acute, 2 | | |
| SECTION | 4. FIRST AID MEASU | RES | | | |
| Gene | ral advice | advice imm | of accident or if you feel u ediately. otoms persist or in all case | | |
| lf inha | aled | | emove to fresh air. | | |
| In cas | se of skin contact | : In case of c for at least and shoes. Get medica Wash cloth | ontact, immediately flush 15 minutes while removin | g contaminated clothing | |
| In cas | se of eye contact | : In case of c for at least If easy to d | contact, immediately flush 15 minutes. o, remove contact lens, if | eyes with plenty of water | |
| lf swa | allowed | If vomiting occurs have person lean forward. Call a physician or poison control center immediately Rinse mouth thoroughly with water. | | | |
| | important symptoms iffects, both acute and ed | : May be har May be fata Causes ski May cause Causes ser May cause May cause May cause Suspected May cause exposure. This produce | Never give anything by mouth to an unconscious person. May be harmful if swallowed. May be fatal if swallowed and enters airways. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause drowsiness or dizziness. May cause genetic defects. May cause genetic defects. May cause cancer. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure. This product contains a pyrethroid. Pyrethroid poisoning should not be confused with carbamate or organophosphate poisoning. | | |
| Prote | ction of first-aiders | : First Aid rea | sponders should pay atter recommended personal otential for exposure exist | protective equipment | |
| Notes | s to physician | | tomatically and supportive | | |

SECTION 5. FIRE-FIGHTING MEASURES

| Suitable extinguishing media | : | Water spray |
|------------------------------|---|------------------------|
| | | Alcohol-resistant foam |
| | | Carbon dioxide (CO2) |
| | | Dry chemical |



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| | Unsuita media | ble extinguishing | : | High volume wate | r jet |
| | Specific fighting | c hazards during fire | : | fire. Flash back possib Vapors may form | water stream as it may scatter and spread le over considerable distance. explosive mixtures with air. pustion products may be a hazard to health. |
| | Hazard ucts | ous combustion prod- | : | Chlorine compour Carbon oxides Sulfur oxides Metal oxides | nds |
| | Specific ods | c extinguishing meth- | : | cumstances and t Use water spray to | measures that are appropriate to local cir- he surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do |
| | • | protective equipment fighters | : | In the event of fire Use personal prot | e, wear self-contained breathing apparatus. ective equipment. |

SECTION 6. ACCIDENTAL RELEASE MEASURES

| Personal precautions, protec- tive equipment and emer- gency procedures | Remove all sources of ignition. 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. 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. |
| Methods and materials for containment and cleaning up | Non-sparking tools should be used. Soak up with inert absorbent material. Suppress (knock down) gases/vapors/mists with a water spray jet. For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. |



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| | | Sections 13 and 15 of this SDS provide information regarding certain local or national requirements. |
| SECTION | 7. HANDLING AND ST | TORAGE |
| Techr | nical measures | : See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section. |
| Local | /Total ventilation | If sufficient ventilation is unavailable, use with local exhaust ventilation. Use explosion-proof electrical, ventilating and lighting equip- ment. |
| Advic | e on safe handling | Do not get on skin or clothing. Do not breathe mist or vapors. Do not swallow. Do not get in eyes. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment Non-sparking tools should be used. Keep container tightly closed. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharges. Take care to prevent spills, waste and minimize release to th environment. |
| Hygie | ne measures | If exposure to chemical is likely during typical use, provide explanation of the state of the st |
| Cond | itions for safe storage | Keep in properly labeled containers. Store locked up. Keep tightly closed. Keep in a cool, well-ventilated place. Store in accordance with the particular national regulations. Keep away from heat and sources of ignition. |
| Mater | ials to avoid | Do not store with the following product types: Strong oxidizing agents Self-reactive substances and mixtures Organic peroxides Flammable solids Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures which in contact with water emit flammable gases Explosives Gases Very acutely toxic substances and mixtures |



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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 | |
|------------------------------------------------|----------------------------------------------------|-------------------------------------|--------------------------------------------------------|----------|--|
| Solvent naphtha (petroleum), light aromatic | 64742-95-6 | TWA | 200 mg/m ³ (total hydrocarbon vapor) | ACGIH | |
| Xylene | 1330-20-7 | LT | 78 ppm 340 mg/m³ | BR OEL | |
| | Further information: Degree of harmfulness: medium | | | | |
| | | TWA | 20 ppm | ACGIH | |
| Permethrin (ISO) | 52645-53-1 | TWA | 80 µg/m3 (OEB 3) | Internal | |
| | | Wipe limit | 800 µg/100 cm ² | Internal | |

Biological occupational exposure limits

| Components | CAS-No. | Control parameters | Biological specimen | Sam- pling time | Permissible concentra- tion | Basis | |
|--------------------------------|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|------------------------------------------------------------------------------------------|----------------------|--|
| Xylene | 1330-20-7 | methyl hippuric acid | Urine | End of workday | 1.5 mg/g creatinine | BR BEI | |
| | | Methylhippu ric acids | Urine | End of shift (As soon as possible after exposure ceases) | 0.3 g/g creatinine | ACGIH BEI | |
| Engineering measures | lf su ven Use | imize workpla ufficient ventila tilation. e explosion-pro ipment. | ation is unava | ailable, use | with local exh | aust | |
| Personal protective equ | ipment | | | | | | |
| Respiratory protection | exp | osure assessr | e local exhaust ventilation is not available or assessment demonstrates exposures outside the nded guidelines, use respiratory protection. | | | | |
| Filter type Hand protection | | mbined particu | | | | | |
| Material | : Che | emical-resistar | nt gloves | | | | |
| Remarks | on t time For resi glov | bose gloves to the concentrat is not determ special applic stance to cher ves with the gl duct is flamma | ion specific t nined for the ations, we re micals of the ove manufac | o place of v product. Cl ecommend aforement cturer. Take | work. Breakthr nange gloves of clarifying the ioned protective note that the | ough often! /e | |



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| Eye p | protection | workday. | h hands before breaks and at the end of ing personal protective equipment: |
| Skin a | and body protection | : Select appropria resistance data potential. Wear the follow If assessment d atmospheres or protective clothi Skin contact mu | ate protective clothing based on chemical and an assessment of the local exposure ing personal protective equipment: emonstrates that there is a risk of explosive flash fires, use flame retardant antistatic ng. ist be avoided by using impervious protective , aprons, boots, etc). |

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

| Physical state | : | liquid |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----------------------------------------------------------------------------------------------------|
| Color | : | clear |
| Odor | : | aromatic |
| Odor Threshold | : | No data available |
| рН | : | 6,69 |
| Melting point/freezing point | : | No data available |
| Initial boiling point and boiling range | : | No data available |
| Flash point | : | 51,1 °C |
| Evaporation rate | : | No data available |
| | | |
| Flammability (solid, gas) | : | Not applicable |
| Flammability (solid, gas) Flammability (liquids) | : | Not applicable No data available |
| | : | |
| Flammability (liquids) Upper explosion limit / Upper | : | No data available |
| Flammability (liquids) Upper explosion limit / Upper flammability limit Lower explosion limit / Lower | : | No data available No data available |
| Flammability (liquids) Upper explosion limit / Upper flammability limit Lower explosion limit / Lower flammability limit | : | No data available No data available No data available |
| Flammability (liquids) Upper explosion limit / Upper flammability limit Lower explosion limit / Lower flammability limit Vapor pressure | : | No data available No data available No data available 15 mmHg (25 °C) |
| Flammability (liquids) Upper explosion limit / Upper flammability limit Lower explosion limit / Lower flammability limit Vapor pressure Relative vapor density | :: | No data available No data available No data available 15 mmHg (25 °C) No data available |



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| Water solubility | | : | emulsifiable | |
| Partition coefficient: n- octanol/water | | : | Not applicable | |
| | gnition temperature | : | No data available |) |
| Deco | mposition temperature | : | No data available |) |
| Visco Vi | sity scosity, dynamic | : | No data available | 9 |
| Vi | scosity, kinematic | : | No data available | |
| Explo | Explosive properties | | Not explosive | |
| Oxidi | zing properties | : | The substance o | r mixture is not classified as oxidizing. |
| Moleo | cular weight | : | No data available | |
| | cle characteristics cle size | : | Not applicable | |

SECTION 10. STABILITY AND REACTIVITY

| Reactivity Chemical stability Possibility of hazardous reac- tions | : | Not classified as a reactivity hazard. Stable under normal conditions. Flammable liquid and vapor. Vapors may form explosive mixture with air. Can react with strong oxidizing agents. |
|--------------------------------------------------------------------------------------|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Conditions to avoid Incompatible materials Hazardous decomposition products | : | Heat, flames and sparks. Oxidizing agents No hazardous decomposition products are known. |

SECTION 11. TOXICOLOGICAL INFORMATION

| : | Inhalation Skin contact Ingestion Eye contact |
|---|------------------------------------------------------------------------------------------------------------------|
| | |
| | |
| | |
| : | Acute toxicity estimate: 3.022 mg/kg Method: Calculation method |
| : | Acute toxicity estimate: > 40 mg/l Exposure time: 4 h Test atmosphere: vapor Method: Calculation method |
| | : |



| Acute | | | 9651-00018 | Date of first issue: 02.08.2016 |
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| Acute | dermal toxicity | : | Acute toxicity es Method: Calcula | timate: > 5.000 mg/kg tion method |
| <u>Comp</u> | onents: | | | |
| Solver | nt naphtha (petroleu | ım), li | ght aromatic: | |
| Acute | oral toxicity | : | LD50 (Rat): > 5.0 | 000 mg/kg |
| Acute | inhalation toxicity | : | LC50 (Rat): > 5, Exposure time: 4 Test atmosphere | 1 h |
| Acute | dermal toxicity | : | LD50 (Rabbit): > | 2.000 mg/kg |
| Xylene | e: | | | |
| Acute | oral toxicity | : | LD50 (Rat): 3.52 Method: Directive | 23 mg/kg e 67/548/EEC, Annex V, B.1. |
| Acute | inhalation toxicity | : | LC50 (Rat): 27,5 Exposure time: 4 Test atmosphere | 4 h |
| Acute | dermal toxicity | : | LD50 (Rabbit): > | • 4.200 mg/kg |
| Perme | ethrin (ISO): | | | |
| Acute | oral toxicity | : | LD50 (Rat): 480 | - 554 mg/kg |
| Acute | inhalation toxicity | : | LC50 (Rat): 2,3 r Exposure time: 4 Test atmosphere | 4 h |
| | dermal toxicity | : | LD50 (Rabbit): > | • 2.000 mg/kg |
| II 4-Non | ylphenol, branched, | etho | xylated: | |
| | oral toxicity | | LD50 (Rat): > 2.0 | 000 mg/kg |
| Calciu | ım bis(dodecylbenze | enesı | Ilphonate), branc | ched: |
| Acute | oral toxicity | : | LD50 (Rat): 404 Remarks: Based | - 1.980 mg/kg I on data from similar materials |
| Acute | dermal toxicity | : | LD50 (Rat): > 2.0 Remarks: Based | 000 mg/kg I on data from similar materials |
| | corrosion/irritation | | | |
| <u>Comp</u> | onents: | | | |
| Solver | nt naphtha (petroleu | ım), li | ght aromatic: | |
| Specie Metho | | : | Rabbit OECD Test Guid | deline 404 |



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| Result | t | : Skin irritation | |
| Vedee | - | | |
| Xylen | | D 11 1 | |
| Specie Result | | : Rabbit : Skin irritation | |
| Perme | ethrin (ISO): | | |
| Specie | | : Rabbit | |
| Result | | : No skin irritation | |
| 4-Non | ylphenol, branched | l, ethoxylated: | |
| Specie | es | : Rabbit | |
| Metho | | : OECD Test Guid | deline 404 |
| Result | | : No skin irritation | |
| Rema | rks | : Based on data f | rom similar materials |
| Calciu | um bis(dodecylbenz | enesulphonate), brand | ched: |
| Specie | | : Rabbit | |
| Metho | | : OECD Test Guid | deline 404 |
| Result | | : Skin irritation | |
| Roma | rks | Based on data ti | rom similar materials |
| | us eye damage/eye | irritation | |
| Seriou Cause <u>Comp</u> | us eye damage/eye es serious eye irritatio ponents: | irritation on. | |
| Seriou Cause <u>Comp</u> Solve | us eye damage/eye es serious eye irritatio ponents: nt naphtha (petrole | irritation on. um), light aromatic: | |
| Seriou Cause <u>Comp</u> Solve | us eye damage/eye es serious eye irritatio ponents: nt naphtha (petrole es | irritation on. um), light aromatic: : Rabbit | |
| Seriou Cause <u>Comp</u> Solve | us eye damage/eye es serious eye irritatio ponents: nt naphtha (petrole es t | irritation on. um), light aromatic: | deline 405 |
| Seriou Cause <u>Comp</u> Solve Specie Result Metho | us eye damage/eye es serious eye irritatio ponents: nt naphtha (petrole es t od | irritation on. um), light aromatic: : Rabbit : No eye irritation | deline 405 |
| Seriou Cause <u>Comp</u> Solve Specie Result Metho | us eye damage/eye es serious eye irritatio ponents: nt naphtha (petrole es t od | irritation on. um), light aromatic: : Rabbit : No eye irritation : OECD Test Guid | deline 405 |
| Seriou Cause <u>Comp</u> Solve Specie Result Metho | us eye damage/eye es serious eye irritatio ponents: nt naphtha (petrole es t od e: es | irritation on. um), light aromatic: : Rabbit : No eye irritation : OECD Test Guid : Rabbit | deline 405 , reversing within 21 days |
| Seriou Cause <u>Comp</u> Solve Specie Result Metho Xylen Specie Result | us eye damage/eye es serious eye irritatio ponents: nt naphtha (petrole es t od e: es | irritation on. um), light aromatic: : Rabbit : No eye irritation : OECD Test Guid : Rabbit | |
| Seriou Cause <u>Comp</u> Solve Specie Result Metho Xylen Specie Result | us eye damage/eye es serious eye irritatio ponents: nt naphtha (petrole es t es t es t es | irritation on. um), light aromatic: : Rabbit : No eye irritation : OECD Test Guid : Rabbit | |
| Seriou Cause Comp Solve Specie Result Metho Xylen Specie Result Perme | us eye damage/eye es serious eye irritatio ponents: nt naphtha (petrole es t es t es t es | irritation on. um), light aromatic: : Rabbit : No eye irritation : OECD Test Guid : Rabbit : Irritation to eyes | |
| Seriou Cause Comp Solve Specie Result Metho Xylen Specie Result Perme Result | us eye damage/eye es serious eye irritatio ponents: nt naphtha (petrole es t es t es t es | irritation on. um), light aromatic: : Rabbit : No eye irritation : OECD Test Guid : Rabbit : Irritation to eyes : Rabbit : No eye irritation | |
| Seriou Cause Comp Solve Specie Result Metho Xylen Specie Result Perme Result | us eye damage/eye es serious eye irritatio ponents: nt naphtha (petrole es t es t ethrin (ISO): es t aylphenol, branched | irritation on. um), light aromatic: : Rabbit : No eye irritation : OECD Test Guid : Rabbit : Irritation to eyes : Rabbit : No eye irritation | |
| Seriou Cause Comp Solve Specie Result Metho Xylen Specie Result Perme Specie Result | us eye damage/eye es serious eye irritatio ponents: nt naphtha (petrole es t od e: es t ethrin (ISO): es t mylphenol, brancheo es | irritation on. um), light aromatic: : Rabbit : No eye irritation : OECD Test Guid : Rabbit : Irritation to eyes : Rabbit : No eye irritation I, ethoxylated: : Rabbit : No eye irritation | , reversing within 21 days |
| Seriou Cause <u>Comp</u> Solve Specie Result Metho Xylen Specie Result Perme Specie Result 4-Non Specie Result | us eye damage/eye es serious eye irritatio <u>ponents:</u> nt naphtha (petrole es t od e: es t ethrin (ISO): es t pylphenol, branched es | irritation on. um), light aromatic: : Rabbit : No eye irritation : OECD Test Guid : Rabbit : Irritation to eyes : Rabbit : No eye irritation I, ethoxylated: : Rabbit : No eye irritation : OECD Test Guid | , reversing within 21 days deline 405 |
| Seriou Cause <u>Comp</u> Solve Specie Result Metho Xylen Specie Result Perme Specie Result 4-Non | us eye damage/eye es serious eye irritatio <u>ponents:</u> nt naphtha (petrole es t od e: es t ethrin (ISO): es t pylphenol, branched es | irritation on. um), light aromatic: : Rabbit : No eye irritation : OECD Test Guid : Rabbit : Irritation to eyes : Rabbit : No eye irritation I, ethoxylated: : Rabbit : No eye irritation : OECD Test Guid | , reversing within 21 days |
| Seriou Cause <u>Comp</u> Solve Specie Result Metho Xylen Specie Result Perme Specie Result 4-Non Specie Result | us eye damage/eye es serious eye irritatio <u>ponents:</u> nt naphtha (petrole es t od e: es t ethrin (ISO): es t nylphenol, branched es t od rks | irritation on. um), light aromatic: : Rabbit : No eye irritation : OECD Test Guid : Rabbit : Irritation to eyes : Rabbit : No eye irritation I, ethoxylated: : Rabbit : No eye irritation : OECD Test Guid | , reversing within 21 days deline 405 rom similar materials |
| Seriou Cause <u>Comp</u> Solve Specie Result Metho Xylen Specie Result Perme Specie Result 4-Non Specie Result | us eye damage/eye es serious eye irritatio ponents: nt naphtha (petrole es t d e: es t ethrin (ISO): es t nylphenol, branched es t od rks um bis(dodecylbenz es | irritation on. um), light aromatic: : Rabbit : No eye irritation : OECD Test Guid : Rabbit : Irritation to eyes : Rabbit : No eye irritation I, ethoxylated: : Rabbit : No eye irritation I, ethoxylated: : Rabbit : No eye irritation : OECD Test Guid : Based on data fr | , reversing within 21 days deline 405 rom similar materials |



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| Method Remarks | | : OECD Test Guideline 405: Based on data from similar materials | | | | |
| Respi | iratory or skin sensi | tization | | | | |
| ••••• | sensitization ause an allergic skin | reaction. | | | | |
| Respi | iratory sensitization | | | | | |
| Not cla | assified based on ava | ilable information. | | | | |
| <u>Comp</u> | oonents: | | | | | |
| Solve | ent naphtha (petrole | um), light aromatic: | | | | |
| Test T | Гуре | : Buehler Test | | | | |
| | s of exposure | : Skin contact | | | | |
| Specie Result | | : Guinea pig : negative | | | | |
| itesui | L | . negative | | | | |
| Xylen | e: | | | | | |
| Test T | Гуре | : Local lymph n | ode assay (LLNA) | | | |
| Route | s of exposure | : Skin contact | | | | |
| Specie | | : Mouse | | | | |
| Result | l | : negative | | | | |
| Perme | ethrin (ISO): | | | | | |
| Test T | Туре | : Buehler Test | | | | |
| | s of exposure | : Skin contact | | | | |
| Specie | | : Guinea pig | | | | |
| Result | t | : positive | | | | |
| Asses | ssment | : Probability or | evidence of skin sensitization in humans | | | |
| 4-Non | ylphenol, branched | , ethoxylated: | | | | |
| Test T | Гуре | : Maximization | Test | | | |
| Route | s of exposure | : Skin contact | | | | |
| Specie | | : Guinea pig | | | | |
| Result Rema | | : negative Based on data | a from similar materials | | | |
| | | . Buoda on data | | | | |
| Calciu | um bis(dodecylbenz | enesulphonate), bra | inched: | | | |
| Test T | | : Maximization | Test | | | |
| Route | s of exposure | : Skin contact | | | | |
| Specie Result | | : Guinea pig : negative | | | | |
| 1762ni | ırks | | a from similar materials | | | |

May cause genetic defects.



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|----------------|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|--|--|--|
| <u>Comp</u> | oonents: | | | | | |
| Solve | ent naphtha (petrole | um), light aromatic: | | | | |
| Genot | toxicity in vitro | : Test Type: Bacterial reverse mutation assay (AMI Result: negative | ES) | | | |
| | | Test Type: In vitro mammalian cell gene mutation Result: positive | test | | | |
| Genot | toxicity in vivo | : Test Type: Sister chromatid exchange analysis in gonia Species: Mouse Application Route: Intraperitoneal injection Result: positive | spermato- | | | |
| | cell mutagenicity - ssment | : Positive result(s) from in vivo heritable germ cell r tests in mammals | nutagenicity | | | |
| Xylen | e: | | | | | |
| | toxicity in vitro | : Test Type: Bacterial reverse mutation assay (AMI Result: negative | ES) | | | |
| | | Test Type: Chromosome aberration test in vitro Result: negative | | | | |
| | | Test Type: In vitro mammalian cell gene mutation Result: negative | test | | | |
| | | Test Type: In vitro sister chromatid exchange ass malian cells Result: negative | ay in mam- | | | |
| Genot | toxicity in vivo | : Test Type: Rodent dominant lethal test (germ cell Species: Mouse Application Route: Skin contact Result: negative |) (in vivo) | | | |
| Perm | ethrin (ISO): | | | | | |
| | toxicity in vitro | : Test Type: Bacterial reverse mutation assay (AMI Result: negative | ES) | | | |
| | | Test Type: In vitro mammalian cell gene mutation Result: negative | Test Type: In vitro mammalian cell gene mutation test Result: negative | | | |
| | | Test Type: Chromosome aberration test in vitro Result: negative | | | | |
| | | Test Type: DNA damage and repair, unscheduled thesis in mammalian cells (in vitro) Result: negative | I DNA syn- | | | |
| | | Test Type: Chromosome aberration test in vitro Result: positive | | | | |



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| Geno | toxicity in vivo | : Test Type: Ma cytogenetic as Species: Mou Result: negati | se |
| | | | |
| | | Test Type: Ro Species: Mou Result: negati | |
| | | cytogenetic as Species: Rat | oute: Intraperitoneal injection |
| | | cytogenetic te Species: Mou | pute: Ingestion |
| | cell mutagenicity - | : Weight of evic cell mutagen. | lence does not support classification as a germ |
| 4-No | nylphenol, branched, | ethoxylated: | |
| Geno | toxicity in vitro | Method: OEC Result: negati | cterial reverse mutation assay (AMES) D Test Guideline 471 ve sed on data from similar materials |
| | | Method: OEC Result: negati | rromosome aberration test in vitro D Test Guideline 473 ve sed on data from similar materials |
| | | Method: OEC Result: negati | vitro mammalian cell gene mutation test D Test Guideline 476 ve sed on data from similar materials |
| II A · · | | | web e de |
| | um bis(dodecylbenze toxicity in vitro | : Test Type: Ba Method: OEC Result: negati | cterial reverse mutation assay (AMES) D Test Guideline 471 |
| | | Test Type: Ch | romosome aberration test in vitro D Test Guideline 473 |
| | | | |



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| | | | Remarks: Base | ed on data from similar materials | |
| Genotoxicity in vivo | | : | Test Type: Mammalian erythrocyte micronucleus test (in viv cytogenetic assay) Species: Mouse Application Route: Ingestion Result: negative Remarks: Based on data from similar materials | | |
| Carc | inogenicity | | | | |
| May | cause cancer. | | | | |
| <u>Com</u> | ponents: | | | | |
| Solv | ent naphtha (petroleum | ı), lig | ght aromatic: | | |
| Spec | ies | : | Mouse | | |
| | cation Route | : | Skin contact | | |
| | sure time | : | 2 Years | | |
| Resu | lit | : | positive | | |
| Carci ment | inogenicity - Assess- | : | Sufficient evide | nce of carcinogenicity in animal experiments | |
| Xyle | | | | | |
| Spec | | : | Rat | | |
| | cation Route | ÷ | Ingestion | | |
| Resu | sure time It | : | 103 weeks negative | | |
| Perm | nethrin (ISO): | | | | |
| Spec | | : | Rat | | |
| Resu | llt | : | negative | | |
| Spec | ies | : | Mouse | | |
| Resu | lt | : | negative | | |
| Repr | oductive toxicity | | | | |
| - | ected of damaging fertili | ty or | the unborn child | J. | |
| - | ponents: | | | | |
| Solv | ent naphtha (petroleum | n). lie | ght aromatic: | | |
| | ts on fertility | : | - | roduction/Developmental toxicity screening | |
| | | | test Species: Rat Application Rou Result: negativ | ute: inhalation (vapor) e | |
| Effec | ts on fetal development | : | Species: Rat | oryo-fetal development ute: inhalation (vapor) e | |



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| Xylen | le: | | | | |
| | s on fertility | : | Test Type: One-generation reproduction toxicity study Species: Rat Application Route: inhalation (vapor) Result: negative | | |
| Effects on fetal development | | : | : Test Type: Embryo-fetal development Species: Rat Application Route: inhalation (vapor) Result: negative | | |
| Perm | ethrin (ISO): | | | | |
| Effect | s on fertility | : | Test Type: Two- Species: Rat Application Route Result: negative | generation reproduction toxicity study e: Ingestion | |
| Effect | s on fetal development | : | | nined repeated dose toxicity study with the elopmental toxicity screening test e: Ingestion | |
| 4-Nor | ylphenol, branched, e | tho | xylated: | | |
| | ductive toxicity - As- | : | | of adverse effects on sexual function and development, based on animal experimen | |
| Repro sessn | - | | iertinty, and/or or | i development, based on animal experimen | |
| sessn | - | esu | - | | |
| sessn Calcie | nent | esu : | Iphonate), branc Test Type: Three Species: Rat Application Route Result: negative | hed: -generation reproduction toxicity study | |

May cause drowsiness or dizziness.

Components:

Solvent naphtha (petroleum), light aromatic:

Assessment : May cause drowsiness or dizziness.



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|----------------------------------|----------------------------------------------------|---------------------------------------------------------------------------------|-------------------------------------------------------------------|
| Xyler | ne: | | |
| Asses | ssment | : May cause res | piratory irritation. |
| | F-repeated exposure cause damage to orga | | through prolonged or repeated exposure. |
| • | ponents: | | |
| Xyler | ne: | | |
| Route Targe | es of exposure et Organs ssment | : Auditory syster : Shown to prod | |
| Repe | ated dose toxicity | | |
| Com | ponents: | | |
| Solve | ent naphtha (petrole | um), light aromatic: | |
| Speci LOAE Applic Expos | | : Rat : 500 mg/kg : Ingestion : 28 Days | |
| Xyler | ne: | | |
| | EL cation Route sure time | : Rat : > 0,2 - 1 mg/l : inhalation (vap : 13 Weeks : Based on data | or) from similar materials |
| Speci LOAE Applic Expos | | : Rat : 150 mg/kg : Ingestion : 90 Days | |
| Perm | ethrin (ISO): | | |
| | | : Rat : 0,2201 mg/l : Inhalation : 90 Days | |
| | | : Rat : 175 mg/kg : Ingestion : 90 Days | |
| 4-Noi | nylphenol, branched | l, ethoxylated: | |
| | | : Rat : 150 mg/kg : Ingestion : 90 Days | |



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| Method | | : OPPTS 870.3100 | |
| Remarks | | : Based on data from similar materials | |
| • | ation toxicity e fatal if swallowed ar | nd enters airways. | |
| <u>Comp</u> | onents: | | |

Solvent naphtha (petroleum), light aromatic:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

Xylene:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Solvent naphtha (petroleum), light aromatic:

| Toxicity to fish | : | LC50 (Pimephales promelas (fathead minnow)): 8,2 mg/l Exposure time: 96 h Test substance: Water Accommodated Fraction |
|-----------------------------------------------------------------------------|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Toxicity to daphnia and other aquatic invertebrates | : | EL50 (Daphnia magna (Water flea)): 4,5 mg/l Exposure time: 48 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 202 |
| Toxicity to algae/aquatic plants | : | EL50 (Pseudokirchneriella subcapitata (microalgae)): 3,1 mg/l Exposure time: 96 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 201 |
| | | NOELR (Pseudokirchneriella subcapitata (microalgae)): 0,5 mg/l Exposure time: 96 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 201 |
| Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity) | : | NOELR (Daphnia magna (Water flea)): 2,6 mg/l Exposure time: 21 d Test substance: Water Accommodated Fraction Method: OECD Test Guideline 211 |
| Xylene: Toxicity to fish | : | LC50 (Oncorhynchus mykiss (rainbow trout)): 13,5 mg/l Exposure time: 96 h |



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|-----------------------------------------------------|------------------------------------------------------------------|---|-----------------------------------------------------------------------------|-------------------------------------------------------------------|
| Toxicity to daphnia and other aquatic invertebrates | | : | Exposure time: 24 Method: OECD To | |
| Toxic plants | ity to algae/aquatic s | : | EC50 (Skeletoner Exposure time: 72 | na costatum (marine diatom)): 10 mg/l 2 h |
| Toxic icity) | ity to fish (Chronic tox- | : | Exposure time: 35 Method: OECD To | |
| | ity to daphnia and other tic invertebrates (Chron- icity) | : | Exposure time: 21 Method: OECD Te | |
| Toxic | ity to microorganisms | : | NOEC: > 100 mg/ Exposure time: 3 Method: OECD To Remarks: Based of | h |
| Perm | nethrin (ISO): | | | |
| | ity to fish | : | LC50 (Lepomis m Exposure time: 96 | acrochirus (Bluegill sunfish)): 0,00079 mg/l Sh |
| | ity to daphnia and other tic invertebrates | : | EC50 (Daphnia m Exposure time: 48 | agna (Water flea)): 0,0001 mg/l 3 h |
| Toxic plants | ity to algae/aquatic s | : | ErC50 (Pseudokir mg/l Exposure time: 72 | chneriella subcapitata (green algae)): > 1,13 2 h |
| | | | EC10 (Pseudokiro mg/l Exposure time: 72 | chneriella subcapitata (green algae)): 0,0023 2 h |
| | ctor (Acute aquatic tox- | : | 10.000 | |
| icity) Toxic icity) | ity to fish (Chronic tox- | : | NOEC (Danio reri Exposure time: 35 Method: OECD Te | |
| | tity to daphnia and other tic invertebrates (Chron- icity) | : | NOEC (Daphnia r Exposure time: 21 Method: OECD To | |
| | ctor (Chronic aquatic | : | 10.000 | |
| toxici Toxic | ity to microorganisms | : | EC50: > 1.000 mg Exposure time: 3 | |
| | | | | |

4-Nonylphenol, branched, ethoxylated:



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| Toxicity to fish | | : | Exposure time: 96 | s promelas (fathead minnow)): > 0,1 - 1 mg/l 5 h on data from similar materials |
| | y to daphnia and other c invertebrates | : | Exposure time: 48 | nia dubia (water flea)): > 0,1 - 1 mg/l 3 h on data from similar materials |
| Toxicit plants | y to algae/aquatic | : | mg/l Exposure time: 72 Method: OECD Te | |
| | | | Exposure time: 72 Method: OECD Te | |
| | tor (Acute aquatic tox- | : | 1 | |
| icity) Toxicit icity) | y to fish (Chronic tox- | : | Exposure time: 10 | tipes (Japanese medaka)): > 0,1 - 1 mg/l 00 d on data from similar materials |
| | y to daphnia and other c invertebrates (Chron- tity) | : | mg/l Exposure time: 28 | s bahia (opossum shrimp)): > 0,001 - 0,01 3 d on data from similar materials |
| M-Fac toxicity | tor (Chronic aquatic ′) | : | 10 | |
| Calciu | m bis(dodecylbenzen | esu | Iphonate), branch | ed: |
| Toxicit | y to fish | : | LC50 : > 1 - 10 m Exposure time: 96 Remarks: Based o | |
| | y to daphnia and other c invertebrates | : | EC50 (Daphnia m Exposure time: 48 Method: OECD Te | |
| Toxicit plants | y to algae/aquatic | : | 100 mg/l Exposure time: 72 Method: OECD Te | |
| | | | mg/l Exposure time: 72 Method: OECD Te | |



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| Persi | stence and degrada | bility | | |
| Com | ponents: | | | |
| Solve | ent naphtha (petrole | um), lig | t aromatic: | |
| | egradability | : | - | |
| Xyler | ne: | | | |
| Biode | egradability | : | Biodegradation Exposure time Method: OECI | |
| Perm | ethrin (ISO): | | | |
| Biode | egradability | : | | adily biodegradable. D Test Guideline 301F |
| 4-No | nylphenol, branched | l, ethox | vlated: | |
| | egradability | : | Result: Not rea | adily biodegradable. ed on data from similar materials |
| Calci | um bis(dodecylbenz | zenesu | lphonate), bra | nched: |
| | egradability | : | Result: Readil | y biodegradable. ed on data from similar materials |
| Bioa | ccumulative potentia | al | | |
| - | ponents: | | | |
| Xyler | | | | |
| Partit | ion coefficient: n- ol/water | : | log Pow: 3,16 Remarks: Calo | culation |
| Perm | ethrin (ISO): | | | |
| | cumulation | : | | mis macrochirus (Bluegill sunfish) on factor (BCF): 570 |
| | ion coefficient: n- ol/water | : | log Pow: 4,67 | |
| | um bis(dodecylbenz | zenesu | | |
| | ion coefficient: n- ol/water | : | Remarks: Not | applicable |
| | lity in soil ata available | | | |
| Othe | r adverse effects | | | |
| No da | ata available | | | |
| | | | 21/2 | 4 |



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SECTION 13. DISPOSAL CONSIDERATIONS

| Disposal methods | | |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| Waste from residues | : Do not dispose of waste into sewer. Dispose of in accordance with local regulations. | |
| Contaminated packaging | Empty containers should be taken to an approved waste handling site for recycling or disposal. Empty containers retain residue and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury and/o death. If not otherwise specified: Dispose of as unused product. | ŗ |

SECTION 14. TRANSPORT INFORMATION

International Regulations

| UNRTDG | | |
|------------------------------------------------------------------------------------------|---|-----------------------------------------------------------------------------------------------------|
| UN number | : | UN 1993 |
| Proper shipping name | : | FLAMMABLE LIQUID, N.O.S. (Solvent naphtha (petroleum), light aromatic, Xylene) |
| Class Packing group Labels Environmentally hazardous | : | 3 III 3 no |
| | · | 10 |
| IATA-DGR UN/ID No. Proper shipping name | : | UN 1993 Flammable liquid, n.o.s. (Solvent naphtha (petroleum), light aromatic, Xylene) |
| Class Packing group Labels | : | 3 III Flammable Liquids |
| Packing instruction (cargo aircraft) Packing instruction (passen- ger aircraft) | : | 366 355 |
| IMDG-Code UN number Proper shipping name | : | UN 1993 FLAMMABLE LIQUID, N.O.S. (Solvent naphtha (petroleum), light aromatic, Xylene, Perme- |
| Class Packing group Labels EmS Code Marine pollutant | | thrin (ISO)) 3 III 3 F-E, <u>S-E</u> yes |

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable for product as supplied.

Domestic regulation

ANTT



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| UN number Proper shipping name | | : | UN 1993 FLAMMABLE LIG (Solvent naphtha | QUID, N.O.S. a (petroleum), light aromatic, Xylene) |
| Class Packing group Labels Hazard Identification Number | | : | 3 III 3 30 | |

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

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

| Group 2B: Possibly carcinogenic to humans Solvent naphtha (petroleum), light aromatic | 64742-95-6 |
|---------------------------------------------------------------------------------------|------------------------------------------------------------|
| Brazil. List of chemicals controlled by the Federal Police | : Xylene Solvent naphtha (petroleum), light aromatic |

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

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

SECTION 16. OTHER INFORMATION

| Revision Date | : | 28.09.2024 |
|---------------|---|------------|
| Date format | : | dd.mm.yyyy |

Further information

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

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

Full text of other abbreviations

| ACGIH | : | USA. ACGIH Threshold Limit Values (TLV) |
|-----------|---|----------------------------------------------------------------|
| ACGIH BEI | : | ACGIH - Biological Exposure Indices (BEI) |
| BR BEI | : | Brazil. NR7. Parameters for Biological Control of Occupational |
| | | Exposure to Some Chemical Agents |



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| BR OF | EL | : Brazil. NR 15 | - Unhealthy activities and operations |
| | H / TWA | : 8-hour, time-v | weighted average |
| | EL / LT | : Up to 48 hour | rs /week |

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration: NO(A)EL - No Observed (Adverse) Effect Level: NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

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.

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