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|--|---------------------------|------------------------------|---|--|---|--|--|--|--|
| SEC | SECTION 1. IDENTIFICATION | | | | | | | | |
| | Produc Produc | | : | MasterEmaco T 5 00000000005170 | 545 11276 00000000051701276 | | | | |
| I | Manufa | acturer or supplier's | deta | ails | | | | | |
| | | | : | 23700 CHAGRIN BLVD Beachwood OH 44122 ChemTel: +1-813-248-0585 USA: +1-800-255-3924 Contract | | | | | |
| | | _ | Number MIS9240 | | | | | | |
| Recommended use of the | | | hen | | | | | | |
| Recommended use Restrictions on use | | : | Concrete protection & repair Reserved for industrial and professional use. | | | | | | |
| SEC | TION 2 | . HAZARDS IDENTIF | | TION | | | | | |
| | GHS cl | assification in accor | dan | ce with 29 CFR 19 | 910.1200 | | | | |
| I | Reprod | luctive toxicity | : | Category 1B | | | | | |
| I | Reprod | luctive toxicity | : | Category 1B | | | | | |
| | Combu | stible dust | : | Combustible Dus | t (1) | | | | |
| | Carcino | ogenicity | : | Category 1A | | | | | |

Specific target organ toxicity : Category 2 (Kidney, Immune system) - repeated exposure (Inhala-

| tion) | | |
|---|---|--------------------------------------|
| Specific target organ toxicity - repeated exposure (Inhala- tion) | : | Category 1 |
| GHS label elements Hazard pictograms | : | |
| Signal Word | : | Danger |
| Hazard Statements | : | May form combustible dust concentrat |

Hazard Statements May form combustible dust concentration in air. H350 May cause cancer. H373 May cause damage to organs through prolonged or repeated exposure. H372 Causes damage to organs through prolonged or repeated exposure if inhaled. H360 May damage fertility or the unborn child. Precautionary Statements Prevention:

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|----------------|------------------------------|---|--|
| | | face protection P201 Obtain sp P260 Do not br P202 Do not ha and understood P270 Do not ea | pecial instructions before use. reathe dust or mist. andle until all safety precautions have been read |
| | | | ical advice/ attention if you feel unwell. F exposed or concerned: Call a POISON or. |
| | | Storage: P405 Store loc | ked up. |
| | | Disposal: P501 Dispose waste collection | of contents/container to appropriate hazardous n point. |

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical n | ature |
|------------|-------|
|------------|-------|

: inorganic compounds

| Components | |
|------------|--|
|------------|--|

| Chemical name | CAS-No. | Concentration (% w/w) |
|---------------------------|------------|-----------------------|
| Quartz (SiO2) | 14808-60-7 | >= 50 - < 100 |
| calcium oxide | 1305-78-8 | >= 0 - < 3 |
| boric acid | 10043-35-3 | >= 0 - < 3 |
| Tetrasodium pyrophosphate | 7722-88-5 | >= 0 - < 0.2 |
| magnesium oxide | 1309-48-4 | >= 5 - < 15 |
| Iron oxide | 1309-37-1 | >= 0 - < 3 |

SECTION 4. FIRST AID MEASURES

| General advice | First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Immediately remove contaminated clothing. Move out of dangerous area. Show this material safety data sheet to the doctor in attend- ance. Do not leave the victim unattended. |
|----------------|--|
| If inhaled | Keep patient calm, remove to fresh air, seek medical attention. Consult a physician after significant exposure. If unconscious, place in recovery position and seek medical advice. |

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| In case of skin contact | | | Immediately wash thoroughly with soap and water, seek me ical attention. | | | |
| In case of eye contact | | W FI R Pi K | Wash affected eyes for at least 15 minutes under running water with eyelids held open. Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist. | | | |
| If swallowed | | : In se In Ki D N | Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention. Induce vomiting immediately and call a physician. Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital. | | | |
| | important symptoms ffects, both acute and ed | : M M C ex M | lay cause cance lay damage ferti auses damage f xposure if inhale | r. lity or the unborn child. to organs through prolonged or repeated | | |
| Notes | to physician | | reat symptomati | cally. | | |

SECTION 5. FIRE-FIGHTING MEASURES

| Suitable extinguishing media Unsuitable extinguishing media | : | Foam Water spray Dry powder Carbon dioxide (CO2) water jet |
|---|---|---|
| Specific hazards during fire fighting | : | Do not allow run-off from fire fighting to enter drains or water courses. |
| Further information | : | Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. |
| Special protective equipment for fire-fighters | : | Wear self-contained breathing apparatus for firefighting if nec- essary. |

SECTION 6. ACCIDENTAL RELEASE MEASURES

| Personal precautions, protec- tive equipment and emer- gency procedures | : | Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Avoid the formation and build-up of dust - danger of dust ex- plosion. Dust in sufficient concentration can result in an explosive mix- ture in air Handle to minimize dusting and eliminate open |
|---|---|---|
| | | ture in air. Handle to minimize dusting and eliminate open |

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| | | | flame and other | sources of ignition. | | | |
| Envir | Environmental precautions | | Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains respective authorities. | | | | |
| | ods and materials for inment and cleaning up | : | : Keep in suitable, closed containers for disposal. | | | | |
| SECTION | 7. HANDLING AND ST | OR | AGE | | | | |
| | e on protection against nd explosion | : | Avoid dust form Provide approp is formed. | ation. riate exhaust ventilation at places where dust | | | |
| Advic | e on safe handling | : | Do not breathe Avoid exposure Avoid contact w For personal pr Smoking, eating plication area. Provide sufficie | of respirable particles. vapors/dust. - obtain special instructions before use. vith skin and eyes. otection see section 8. g and drinking should be prohibited in the ap- nt air exchange and/or exhaust in work rooms. e water in accordance with local and national | | | |
| Cond | litions for safe storage | : | Keep container place. Observe label p Electrical install | tightly closed in a dry and well-ventilated precautions. ations / working materials must comply with al safety standards. | | | |
| | er information on stor- conditions | : | Keep only in the | e original container in a cool, dry, well- away from ignition sources, heat or flame. | | | |
| Mate | rials to avoid | : | Observe TRGS | 509/510 storage rules. | | | |
| | er information on stor- stability | : | No decompositi | on if stored and applied as directed. | | | |

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 |
|---------------|-----------|-------------------------------------|--|------------------------------------|
| calcium oxide | 1305-78-8 | TWA value | 2 mg/m3 | ACGIHTLV |
| | | REL value | 2 mg/m3 | NIOSH |
| | | PEL | 5 mg/m3 | 29 CFR 1910.1000 (Table Z-1) |
| | | TWA value | 5 mg/m3 | 29 CFR 1910.1000 |

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| | | I | 1 | | |
| | | | | 0 | (Table Z-1- |
| | | | TWA | 2 mg/m3 | ACGIH |
| | | | TWA | 2 mg/m3 | NIOSH RE |
| | | | TWA | 5 mg/m3 | OSHA Z-1 |
| | | | TWA | 5 mg/m3 | OSHA P0 |
| Iron oxide | 1309-37-1 | TWA value (Respirable fraction) | 5 mg/m3 | ACGIHTLV | |
| | | | REL value (Dust and fume) | 5 mg/m3 (iron (Fe)) | NIOSH |
| | | | PEL (fumes/smok e) | 10 mg/m3 | 29 CFR 1910.1000 (Table Z-1) |
| | | | TWA value (fumes/smok e) | 10 mg/m3 | 29 CFR 1910.1000 (Table Z-1- |
| | | | TWA (Res- pirable par- ticulate mat- ter) | 5 mg/m3 | ACGIH |
| | | | TWA (dust and fume) | 5 mg/m3 (Iron) | NIOSH RE |
| | | | TWA (Fumes) | 10 mg/m3 | OSHA Z-1 |
| | | | TWA (total dust) | 15 mg/m3 | OSHA Z-1 |
| | | | TWÁ (respir- able fraction) | 5 mg/m3 | OSHA Z-1 |
| | | | TWA (Fumes) | 10 mg/m3 | OSHA P0 |
| magn | esium oxide | 1309-48-4 | TWA value (Inhalable fraction) | 10 mg/m3 | ACGIHTLV |
| | | | PEL (Total particulate) | 15 mg/m3 | 29 CFR 1910.1000 (Table Z-1) |
| | | | TWA value (Total partic- ulate) | 10 mg/m3 | 29 CFR 1910.1000 (Table Z-1- |
| | | | TWA (Inhal- able particu- late matter) | 10 mg/m3 | ACGIH |
| | | | TWA (fume, total particu- late) | 15 mg/m3 | OSHA Z-1 |
| | | | TWA (Fume - total particu- late) | 10 mg/m3 | OSHA P0 |
| Quart | z (SiO2) | 14808-60-7 | TWA value (Respirable fraction) | 0.025 mg/m3 | ACGIHTLV |
| | | | TWA value | 0.05 mg/m3 (Respirable dust) | 29 CFR 1910.1001- |

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| | | I | | | 1050 | |
| | | | OSHA Action level | 0.025 mg/m3 (Respirable dust) | 29 CFR 1910.1001- 1050 | |
| | | | REL value (Respirable dust) | 0.05 mg/m3 | NIOSH | |
| | | | TWÁ (Res- pirable dust) | 0.05 mg/m3 | OSHA Z-1 | |
| | | | TWA (respir- able) | 10 mg/m3 / %SiO2+2 | OSHA Z-3 | |
| | | | TWA (respir- able) | 250 mppcf / %SiO2+5 | OSHA Z-3 | |
| | | | TWA (respir- able dust fraction) | 0.1 mg/m3 | OSHA P0 | |
| | | | TWA (Res- pirable par- ticulate mat- ter) | 0.025 mg/m3 (Silica) | ACGIH | |
| | | | PEL (respir- able) | 0.05 mg/m3 | OSHA CAR | |
| | | | TWA (Res- pirable dust) | 0.05 mg/m3 (Silica) | NIOSH REI | |
| crysta | crystalline silica | 14808-60-7 | TWA value (Respirable fraction) | 0.025 mg/m3 | ACGIHTLV | |
| | | | REL value (Respirable dust) | 0.05 mg/m3 | NIOSH | |
| | | | TWA value | 0.05 mg/m3 (Respirable dust) | 29 CFR 1910.1001- 1050 | |
| | | | OSHA Action level | 0.025 mg/m3 (Respirable dust) | 29 CFR 1910.1001- 1050 | |
| | | | TWA (Res- pirable dust) | 0.05 mg/m3 | OSHA Z-1 | |
| | | | TWA (respir- able) | 10 mg/m3 / %SiO2+2 | OSHA Z-3 | |
| | | | TWA (respir- able) | 250 mppcf / %SiO2+5 | OSHA Z-3 | |
| | | | TWA (respir- able dust fraction) | 0.1 mg/m3 | OSHA P0 | |
| | | | TWA (Res- pirable par- ticulate mat- ter) | 0.025 mg/m3 (Silica) | ACGIH | |
| | | | PEL (respir- able) | 0.05 mg/m3 | OSHA CAR | |
| | | | TWA (Res- pirable dust) | 0.05 mg/m3 (Silica) | NIOSH REI | |

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| Engineering measures | | local exhaust volved in hand vents or an ex cient environm Ensure that du dust collectors signed in a ma work area (i.e. | ust-handling systems (such as exhaust ducts, s, vessels, and processing equipment) are de- anner to prevent the escape of dust into the , there is no leakage from the equipment). opriately classified electrical equipment and |
| Pers | onal protective equipr | nent | |
| | iratory protection protection | : Wear respirato | bry protection if ventilation is inadequate. |
| R | emarks | | for a specific workplace should be discussed cers of the protective gloves. |
| Eye p | protection | | le with pure water |
| Skin | and body protection | | protection according to the amount and con- ne dangerous substance at the work place. |
| Prote | ctive measures | stated persona Avoid exposur | bsed work clothing is required additionally to the al protection equipment. re - obtain special instructions before use. bordance with good building materials hygiene |
| Hygie | ene measures | When using do | o not eat or drink. o not smoke. before breaks and at the end of workday. |

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

| Appearance | : | powder |
|---|---|--------------------------------------|
| Color | : | gray |
| Odor | : | odorless |
| рН | : | slightly alkaline |
| Melting temperature | : | > 1,832 °F / > 1,000 °C |
| Boiling point | : | No applicable information available. |
| Flash point | : | does not flash |
| Evaporation rate | : | No applicable information available. |
| Flammability (solid, gas) | : | not determined |
| Upper explosion limit / Upper flammability limit | : | No applicable information available. |

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| | Lower explosion limit / Lower flammability limit | | : | No applicable info | ormation available. | |
| | Vapor p | pressure | : | No applicable info | prmation available. | |
| | Relative | e vapor density | : | No applicable info | ormation available. | |
| | Relative | e density | : | No applicable info | ormation available. | |
| | Bulk de Solubili | | : | 1,000 kg/m3 | | |
| | | er solubility | : | slightly soluble | | |
| | Solubility in other solvents | | : | No applicable info | ormation available. | |
| | | n coefficient: n- | : | No applicable info | ormation available. | |
| | octanol/water Autoignition temperature | | : | No applicable information available. | | |
| | Decomposition temperature | | : | No applicable info | ormation available. | |
| | Viscosity Viscosity, dynamic | | : | No applicable info | ormation available. | |
| | Visc | osity, kinematic | : | No applicable info | ormation available. | |
| | Explosi | ve properties | : | Not explosive Not explosive | | |
| | Oxidiziı | ng properties | : | not fire-propagati | ng | |
| | Self-he | ating substances | : | No data available | | |
| | Sublim | ation point | : | No applicable info | prmation available. | |
| | Molecu | lar weight | : | No data available | | |
| | Metal corrosion rate | | : | Corrosive effects | to metal are not anticipated. | |

SECTION 10. STABILITY AND REACTIVITY

| Reactivity | : | No hazardous reactions if stored and handled as pre- scribed/indicated. |
|--------------------------------|---|--|
| Chemical stability | : | The product is stable if stored and handled as pre- scribed/indicated. |
| Possibility of hazardous reac- | : | No applicable information available. |
| tions | | No decomposition if stored and applied as directed. |
| Conditions to avoid | : | See SDS section 7 - Handling and storage. |
| Incompatible materials | : | Strong acids |
| | | Strong bases |
| | | Strong oxidizing agents |
| | | Strong reducing agents |

SAFETY DATA SHEET

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| Haza produ | rdous decomposition | : | No hazardou as prescribec | s decomposition products if stored and handled d/indicated. |
| ECTION | 11. TOXICOLOGICAL | _ INFO | ORMATION | |
| Aout | e toxicity | | | |
| | assified based on avai | ilable | information. | |
| Produ | uct: | | | |
| Acute | oral toxicity | : | Remarks: No | applicable information available. |
| Acute | inhalation toxicity | : | Remarks: No | applicable information available. |
| Acute | e dermal toxicity | : | Remarks: No | applicable information available. |
| | corrosion/irritation lassified based on avai | ilable | information. | |
| | us eye damage/eye ir lassified based on avai | | | |
| Resp | iratory or skin sensit | izatio | n | |
| - | sensitization lassified based on avai | ilable | information. | |
| - | iratory sensitization lassified based on avai | ilable | information. | |
| | cell mutagenicity lassified based on avai | ilable | information. | |
| | nogenicity cause cancer. | | | |
| | oductive toxicity damage fertility or the u | unborr | n child. | |
| STOT | -single exposure lassified based on avai | | | |
| | -repeated exposure | labic | | |
| Cause | es damage to organs th | | | repeated exposure if inhaled. I or repeated exposure. |
| - | ration toxicity lassified based on avai | ilable | information. | |
| Furth | er information | | | |
| Produ | uct: | | | |
| Rema | | : | | as not been tested. The statement has been he properties of the individual components. |

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| SECTION | 12. ECOLOGICAL IN | IFORM <i>A</i> | TION | |
| | oxicity ata available | | | |
| Persi | istence and degrada | bility | | |
| Com | ponents: | | | |
| | a sodium pyrophosph egradability | | Remarks: Not | applicable |
| Bioad | ccumulative potentia | ıl | | |
| Com | ponents: | | | |
| Tetra | sodium pyrophosph | ate: | | |
| Bioac | cumulation | : F | Remarks: Not | applicable |
| | ion coefficient: n- ol/water | : 10 | og Pow: -10.4 | 5 |
| | lity in soil | | | |
| | ata available r adverse effects | | | |
| Prod | | | | |
| | ional ecological infor- | ר ד מ | harmful to aqu The product ha | n probability that the product is not acutely atic organisms. as not been tested. The statements on ecotoxi- een derived from the properties of the individual |

SECTION 13. DISPOSAL CONSIDERATIONS

| Disposal methods | | |
|------------------------|---|--|
| Waste from residues | Dispose of in accordance with national, state and local regutions. Do not discharge into drains/surface waters/groundwater. Do not contaminate ponds, waterways or ditches with chem cal or used container. | |
| Contaminated packaging | Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned. Contaminated packaging should be emptied as far as possil and disposed of in the same manner as the substance/product. | |

SECTION 14. TRANSPORT INFORMATION

International Regulations

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| | TDG regulated as a dangerou | is good | | |
| | A-DGR regulated as a dangerou | is good | | |
| | G-Code regulated as a dangerou | is good | | |
| | applicable for product as | | RPOL 73/78 and the | BC Code |
| Dom | estic regulation | | | |
| 49 C Not i | FR regulated as a dangerou | is good | | |
| SECTION | 15. REGULATORY IN | FORMATION | | |
| SAR | A 313 | | omponents are subj RA Title III, Section | ect to reporting levels es- 313: |
| | | Ammonium phosphate | 7722-76-1 | |
| US S | State Regulations | | | |
| Peni | nsylvania Right To Kno | w | | |
| | calcium oxide Iron oxide magnesium oxide Pentasodium triph Quartz (SiO2) | | | 1305-78-8 1309-37-1 1309-48-4 7758-29-4 14808-60-7 |
| New | Jersey Right To Know | / | | |
| | calcium oxide magnesium oxide crystalline silica | | | 1305-78-8 1309-48-4 14808-60-7 |
| Calif | iornia Prop. 65 | | | |

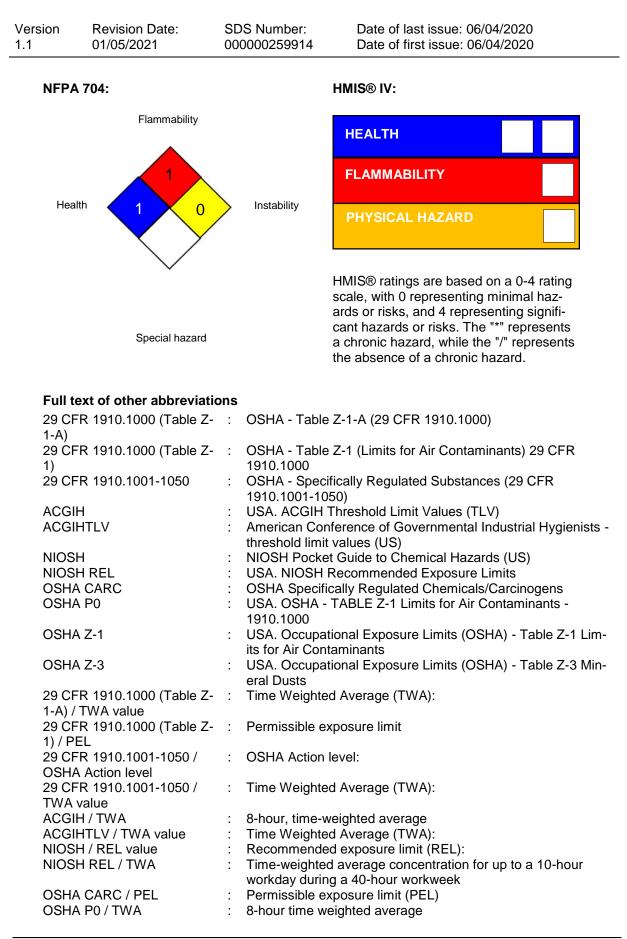
WARNING: This product can expose you to chemicals including Quartz (SiO2), which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

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

| TSCA | : | All chemical substances in this product are either listed as active on the TSCA Inventory or are in compliance with a |
|------|---|---|
| | | TSCA Inventory exemption. |
| DSL | : | All components of this product are on the Canadian DSL |

SECTION 16. OTHER INFORMATION

Further information



OSHA Z-3 / TWA

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| OSH | A Z-1 / TWA | : 8-hour time v | veighted average |

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

8-hour time weighted average

Revision Date

: 01/05/2021

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