



| Version 8.4 | Revision Date: 04/04/2023 | - | OS Number: 403-00026 | Date of last issue: 08/16/2022 Date of first issue: 10/29/2014 |
|-----------------------|---|-----|---|--|
| SECTION | 1. IDENTIFICATION | | | |
| Prod | uctname | : | Fenbendazole | (7%) Liquid Formulation |
| Man | ufacturer or supplier's | det | ails | |
| Addr Telep Emei | Company name of supplier Address Telephone Emergency telephone | | 126 E. Lincoln / Rahway, New J 908-740-4000 1-908-423-6000 | Avenue ersey U.S.A. 07065 |
| E-ma | ail address | : | EHSDATASTE | WARD@merck.com |
| | ommended use of the | | | |
| Reco | mmended use | : | Veterinary proc | uct |
| Resti | rictions on use | : | Not applicable | |
| GHS | I 2. HAZARDS IDENTII classification in acco | - | - | IA Hazard Communication Standard (29 CFR |
| | oductive toxicity | : | Category 2 | |
| | ific target organ toxicity eated exposure (Oral) | : | Category 2 (Liv | er, Stomach, Nervous system, Lymph nodes) |
| | label elements rd pictograms | : | | |
| Signa | al Word | : | Warning | |
| Haza | rd Statements | : | the unborn child H373 May caus | ted of damaging fertility. Suspected of damaging d. e damage to organs (Liver, Stomach, Nervous nodes) through prolonged or repeated exposure |
| Preca | autionary Statements | | | |

Storage:



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|--|--|--|--|
| | | P405 Store lo | cked up. |
| | | Disposal: | |
| | | • | e of contents and container to an approved waste t. |
| Other | hazards | | |
| | known. | | |
| ECTION | 3. COMPOSITION/IN | FORMATION ON IN | GREDIENTS |
| Subst | ance / Mixture | : Mixture | |
| Com | oonents | | |
| | ical name | CAS-No. | Concentration (% w/w) |
| | ndazole | 43210-67- | 9 >= 5 - < 10 |
| Silico | n, amorphous | 112945-52 | 2-5 >= 1 - < 5 |
| | 4. FIRST AID MEASU | | |
| | 4. FIRST AID MEASU al advice | : In the case of advice immed When sympto | accident or if you feel unwell, seek medical liately. Ims persist or in all cases of doubt seek medical |
| | al advice | In the case of advice immed When sympto advice. If inhaled, rem | liately. Ims persist or in all cases of doubt seek medical nove to fresh air. |
| Gener If inha | al advice | In the case of advice immed When sympto advice. If inhaled, rem Get medical a In case of corr of water. Remove conta Get medical a | diately. Ims persist or in all cases of doubt seek medical nove to fresh air. Attention. Intact, immediately flush skin with soap and plenty aminated clothing and shoes. Attention. In before reuse. |
| Gener If inha In cas | al advice led | In the case of advice immed When sympto advice. If inhaled, rem Get medical a In case of con of water. Remove conta Get medical a Wash clothing Thoroughly clip Flush eyes with the symptomic of the symptomic sym | diately. Ims persist or in all cases of doubt seek medical nove to fresh air. Attention. Intact, immediately flush skin with soap and plenty aminated clothing and shoes. Attention. In before reuse. ean shoes before reuse. th water as a precaution. |
| Gener If inha In cas | ral advice lled e of skin contact | In the case of advice immed When sympto advice. If inhaled, rem Get medical a In case of corrof water. Remove conta Get medical a Wash clothing Thoroughly cliphore in Get medical a Wash clothing Thoroughly cliphore in Get medical a If swallowed, Get medical a a | diately. Ims persist or in all cases of doubt seek medical nove to fresh air. Attention. Intact, immediately flush skin with soap and plenty aminated clothing and shoes. Attention. In before reuse. ean shoes before reuse. th water as a precaution. Attention if irritation develops and persists. DO NOT induce vomiting. Attention. |
| Gener If inha In cas If swa Most | ral advice led e of skin contact e of eye contact llowed important symptoms ffects, both acute and | In the case of advice immed When sympto advice. If inhaled, rem Get medical a In case of corrof water. Remove conta Get medical a Wash clothing Thoroughly cliphoroughly cliphor | diately. Image of the set of the |
| Gener If inha In cas In cas If swa Most and ef delaye | ral advice led e of skin contact e of eye contact llowed important symptoms ffects, both acute and | In the case of advice immed When sympto advice. If inhaled, rem Get medical a In case of con of water. Remove conta Get medical a Wash clothing Thoroughly cli Flush eyes wir Get medical a If swallowed, Get medical a Rinse mouth t Suspected of unborn child. May cause da exposure if sy First Aid respondent of the removed of the re | diately. Image of the set of the |

SECTION 5. FIRE-FIGHTING MEASURES

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



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| | Unsuitable extinguishing media Specific hazards during fire fighting | | None known. | | | |
| Spec | | | Exposure to com | oustion products may be a hazard to health. | | |
| | rdous combustion prod- | : | Carbon oxides Nitrogen oxides (Sulf ur oxides Metal oxides | NOx) | | |
| Spec ods | Specific extinguishing meth- ods | | Use extinguishing measures that are appropriate to local of cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe t so. Evacuate area. | | | |
| | ial protective equipment re-fighters | : | In the event of fire | e, wear self-contained breathing apparatus. tective equipment. | | |
| SECTION | 6. ACCIDENTAL RELE | AS | E MEASURES | | | |
| tivee | onal precautions, protec- equipment and emer- y procedures | : | Follow safe hand | tective equipment. Ing advice (see section 7) and personal nent recommendations (see section 8). | | |
| Envir | ronmental precautions | : | Prevent spreadin oil barriers). Retain and dispos | akage or spillage if safe to do so. g over a wide area (e.g., by containment or se of contaminated wash water. should be advised if significant spillages | | |
| | ods and materials for ainment and cleaning up | : | For large spills, p containment to ke can be pumped, s container. Clean up remainin absorbent. Local or national disposal of this m employed in the c determine which Sections 13 and | t absorbent material. rovide diking or other appropriate eep material from spreading. If diked material store recovered material in appropriate ng materials from spill with suitable 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 attional 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 breathe mist or vapors. Do not swallow. Avoid contact with eyes. |



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| | | Avoid prolonged or repeated contact with skin. Handle in accordance with good industrial hygiene and saf practice, based on the results of the workplace exposure assessment Take care to prevent spills, waste and minimize release to environment. | | | | |
| Conditions for safe storage | | : Keep in properly labeled containers. Store locked up. Store in accordance with the particular national regulations. | | | | |
| Materi | ials to avoid | | h the following product types: | | | |

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 |
|--------------------|-------------|-------------------------------------|--|-----------|
| fenbendazole | 43210-67-9 | TWA | 100 µg/m3 (OEB 2) | Internal |
| Silicon, amorphous | 112945-52-5 | TWA (Dust) | 20 Million particles per cubic foot (Silica) | OSHA Z-3 |
| | | TWA (Dust) | 80 mg/m3 / %SiO2 (Silica) | OSHA Z-3 |
| | | TWA | 6 mg/m³ (Silica) | NIOSH REL |

| Engineering measures : | Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., drip- less quick connections). All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment. Laboratory operations do not require special containment. |
|------------------------------|--|
| Personal protective equipmer | nt |
| | 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 | |



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| Material | | : | : Chemical-resistant gloves | | |
| Eye protection | | : | : Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols. | | |
| Skin and body protection : Hygiene measures : | | : | eye flushing syst working place. When using do n Wash contamina The effective ope engineering cont appropriate dego | emical is likely during typical use, provide tems and safety showers close to the not eat, drink or smoke. eted clothing before re-use. eration of a facility should include review of trols, proper personal protective equipment, owning and decontamination procedures, e monitoring, medical surveillance and the | |

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

| Appearance | : | suspension |
|---|---|-------------------|
| Color | : | white |
| Odor | : | characteristic |
| Odor Threshold | : | No data available |
| рН | : | 6 - 8 |
| 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 applicable |
| Flammability (liquids) | : | No data available |
| Upper explosion limit / Upper flammability limit | : | No data available |
| Lower explosion limit / Lower flammability limit | : | No data available |
| Vapor pressure | : | No data available |
| Relative vapor density | : | No data available |



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| Relative density | | : | No data availabl | e | |
| [| Density | | : | No data availabl | e |
| S | Solubility(ies) Water solubility | | : | insoluble | |
| | Partition coefficient: n- octanol/water Autoignition temperature | | : | No data availabl | e |
| | | | : | No data availabl | e |
| [| Decomposition temperature | | : | No data availabl | e |
| ١ | Viscosity Viscosity, kinematic Explosive properties | | : | No data availabl | e |
| E | | | : | Not explosive | |
| C | Oxidizi | ng properties | : | The substance of | or mixture is not classified as oxidizing. |
| Ν | Molecu | ular weight | : | No data availabl | е |
| F | Particle | esize | : | No data availabl | e |

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

Inhalation Skin contact Ingestion Eye contact

Acute toxicity

Not classified based on available information.

Components:

fenbendazole:

Acute oral toxicity

: LD50 (Rat): > 10,000 mg/kg

LD50 (Mouse): > 10,000 mg/kg

SAFETY DATA SHEET



Fenbendazole (7%) Liquid Formulation

| ersion 4 | Revision Date: 04/04/2023 | SDS Numb 26403-0002 | |
|--------------|---|--|--|
| Silic | on, amorphous: | | |
| | e oral toxicity | Method | Rat): > 5,000 mg/kg : OECD Test Guideline 401 s: Based on data from similar materials |
| Acute | e inhalation toxicity | Exposu Test atn Assess tion tox | at): > 2.08 mg/l re time: 4 h nosphere: dust/mist ment: The substance or mixture has no acute inhal icity s: Based on data from similar materials |
| Acute | e dermal toxicity | : LD50 (F Remark | Rabbit): > 5,000 mg/kg s: Based on data from similar materials |
| | corrosion/irritation | ailable informat | ion. |
| <u>Com</u> | ponents: | | |
| fenbe | endazole: | | |
| Spec | ies | : Rabbit | |
| Resu | lt | : No skin | irritation |
| Silic | on, amorphous: | | |
| Spec | | : Rabbit | |
| Meth | | | Test Guideline 404 |
| Resu Rema | | | irritation on data from similar materials |
| Not c | bus eye damage/eye classified based on ava | | ion. |
| | ponents: | | |
| | endazole: | | |
| Spec Resu | | : Rabbit : No eye | irritation |
| Silic | on, amorphous: | | |
| Spec | • | : Rabbit | |
| Resu | lt | : No eye | irritation |
| Meth | | | Test Guideline 405 |
| Rema | arks | : Based of | on data from similar materials |
| Resp | iratory or skin sensi | tization | |
| Skin | sensitization | | |
| Not c | lassified based on av | ailable informat | ion. |
| Poen | iratory consitization | | |

Respiratory sensitization

Not classified based on available information.

SAFETY DATA SHEET



Fenbendazole (7%) Liquid Formulation

| ersion .4 | Revision Date: 04/04/2023 | SDS Number: 26403-00026 | Date of last issue: 08/16/2022 Date of first issue: 10/29/2014 |
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| | cell mutagenicity lassified based on av | ailable information. | |
| <u>Com</u> | <u>ponents:</u> | | |
| fenbe | endazole: | | |
| Geno | toxicity in vitro | : Test Type: Bao Result: negativ | cterial reverse mutation assay (AMES) re |
| | | Test Type: DN Result: negativ | |
| | | Test Type: Chr Result: negativ | omosomal aberration re |
| | | | nouse lymphoma cells vation: Metabolic activation |
| Silico | on, amorphous: | | |
| | toxicity in vitro | Method: OEC | cterial reverse mutation assay (AMES) D Test Guideline 471 re ed on data from similar materials |
| Geno | toxicity in vivo | cytogenetic tes Species: Rat Application Ro Result: negativ | |

Not classified based on available information.

Components:

| fenbendazole: Species Application Route Exposure time NOAEL Result | Mouse oral (feed) 2 Years 405 mg/kg body weight negative |
|---|---|
| Species Application Route Exposure time NOAEL Result Target Organs | Rat Oral 2 Years 5 mg/kg body weight negative Lymph nodes, Liver |



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| Silicon, amor Species Application Ro Exposure time Result Remarks | ute | : | Rat Ingestion 103 weeks negative Based on data fro | om similar materials |
| IARC | | | | t at levels greater than or equal to 0.1% is onfirmed human carcinogen by IARC. |
| OSHA | | | this product prese regulated carcino | nt at levels greater than or equal to 0.1% is jens. |
| NTP | | | | t at levels greater than or equal to 0.1% is carcinogen by NTP. |
| Reproductive Suspected of c Components: | damaging fertility | y. S | Suspected of dama | ging the unborn child. |
| fenbendazole | | | | |
| Effects on ferti | | : | Species: Rat Application Route General Toxicity I | Parent: NOAEL: 15 mg/kg body weight 45 mg/kg body weight |
| Effects on feta | I development | : | Result: Embryoto offspring were de Test Type: Embry Species: Rabbit Application Route | nale e: Oral oxicity: LOAEL: 100 mg/kg body weight xic effects and adverse effects on the tected., No teratogenic effects. vo-fetal development e: Oral |
| | | | Result: Fetotoxici | |
| | | | Species: Rabbit Application Route | vo-fetal development e: Oral oxicity: LOAEL: 63 mg/kg body weight |
| | | | Species: Rat Application Route Developmental To | vo-fetal development e: Oral oxicity: NOAEL: 120 mg/kg body weight s on fetal development. |
| Reproductive t sessment | toxicity - As- | : | | f adverse effects on sexual function and animal experiments., Some evidence of |



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| | | | | adverse effects o experiments. | n development, based on animal |
| | | n, amorphous: s on fetal development | : | Species: Rat Application Route Result: negative | yo-fetal development e: Ingestion on data from similar materials |
| | | -single exposure assified based on availa | able | information. | |
| | May ca | -repeated exposure ause damage to organs d or repeated exposure | | | vous system, Lymph nodes) through pro- |
| | <u>Comp</u> | <u>onents:</u> | | | |
| | Routes | ndazole: s of exposure Organs sment | : | | Vervous system, Lymph nodes ge to organs through prolonged or repeated |
| | - | ted dose toxicity onents: | | | |
| | fenber | ndazole: | | | |
| | Expos | | : | Rat 500 mg/kg Oral 2 Weeks Kidney, Liver | |
| | | L ation Route ure time | : | Rat > 2,500 mg/kg Oral 30 Days No significant adv | verse effects were reported |
| | Expos | _ ation Route ure time Organs | : | Rat 1,600 mg/kg Oral 90 Days Central nervous s Tremors | system |
| | | L | : | Dog 4 mg/kg 8 mg/kg 6 Months Stomach, Nervou | ıs system, Lymph nodes |





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| Spo NO App Exp | i con, amorphous: ecies AEL plication Route posure time narks | : | Rat 1.3 mg/l inhalation (dust/n 13 Weeks Based on data fro | nist/fume) om similar materials |
| | piration toxicity t classified based on availa | able | information. | |
| <u>Co</u> | mponents: | | | |
| - | bendazole: aspiration toxicity classific | atic | on | |
| Ex | perience with human exp | os | ure | |
| <u>Co</u> | mponents: | | | |
| - | bendazole: estion | : | Symptoms: Rapid | d respiration, Salivation, anorexia, Diarrhea |
| SECTIO | N 12. ECOLOGICAL INF | OR | MATION | |
| Fo | otoxicity | | | |
| | mponents: | | | |
| | bendazole: | | | |
| - | cicity to fish | : | LC50 (Lepomis n Exposure time: 2 | nacrochirus (Bluegill sunfish)): 0.009 mg/l 1 d |
| | cicity to daphnia and other latic invertebrates | : | Exposure time: 4 | nagna (Water flea)): 0.008 mg/l 8 h Test Guideline 202 |
| aqı | cicity to daphnia and other natic invertebrates (Chron- oxicity) | | Exposure time: 2 | magna (Water flea)): 0.00113 mg/l 1 Days est Guideline 211 |
| Sil | icon, amorphous: | | | |
| | cicity to fish | : | Exposure time: 9 Method: OECD T | o (zebra fish)): > 10,000 mg/l 6 h ēst Guideline 203 on data from similar materials |
| | cicity to daphnia and other latic invertebrates | : | Exposure time: 2 Method: OECD T | nagna (Water flea)): > 1,000 mg/l 4 h Test Guideline 202 on data from similar materials |
| Тох | cicity to algae/aquatic | : | EC50 (Desmodes | smus subspicatus (green algae)): > 10,000 |
| | | | 11 / 16 | |



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| plants | | | | 2 h Fest Guideline 201 I on data from similar materials |
| | | | mg/l Exposure time: 7 Method: OECD | esmus subspicatus (green algae)): 10,000 2 h Fest Guideline 201 on data from similar materials |
| | stence and degradabi ta available | ility | | |
| Bioad | cumulative potential | | | |
| <u>Com</u> | oonents: | | | |
| Partiti | n dazole: on coefficient: n- ol/water | : | log Pow: 3.32 | |
| Mobi | lity in soil | | | |
| <u>Com</u> | oonents: | | | |
| Distri | ndazole: oution among environ- ll compartments | : | log Koc: 3.8 - 4.7 Method: FDA 3.0 | |
| Other | adverse effects | | | |
| No da | ta available | | | |
| SECTION | 13. DISPOSAL CONS | IDE | RATIONS | |
| Dispo | osal methods | | | |
| • | from residues | : | | cordance with local regulations. |
| Conta | minated packaging | : | Empty containers handling site for | of waste into sewer. s should be taken to an approved waste recycling or disposal. specified: Dispose of as unused product. |

SECTION 14. TRANSPORT INFORMATION

International Regulations

| UNRTDG | | |
|----------------------|---|--|
| UN number | : | UN 3082 |
| Proper shipping name | : | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (fenbendazole) |
| Class | : | 9 |
| Packing group | : | |
| Labels | : | 9 |



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| IATA-I UN/ID Prope | - | : | | nazardous substance, liquid, n.o.s. |
| Labels | ng instruction (cargo | : | (fenbendazole) 9 III Miscellaneous 964 | |
| Packir ger air | g instruction (passen- | : | 964 yes | |
| IMDG- UN nu Prope | | : | UN 3082 ENVIRONMENT/ N.O.S. (fenbendazole) | ALLY HAZARDOUS SUBSTANCE, LIQUID, |
| Labels EmS (| | : | 9 III 9 F-A, S-F yes | |
| | port in bulk according | - | | POL 73/78 and the IBC Code |
| Dome | stic regulation | | | |
| | R /NA number r shipping name | : | UN 3082 Environmentally I (fenbendazole) | nazardous substance, liquid, n.o.s. |
| Class Packir | na aroup | : | 9 | |

| Class | • | 9 |
|------------------|---|--|
| Packing group | : | III |
| Labels | : | CLASS 9 |
| ERG Code | : | 171 |
| Marine pollutant | : | yes(fenbendazole) |
| Remarks | : | Above applies only to containers over 119 gallons or 450 liters. |
| | | Shipment by ground under DOT is non-regulated; however it may be shipped per the applicable hazard classification to |
| | | facilitate multi-modal transport involving ICAO (IATA) or IMO. |

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

CERCLA Reportable Quantity

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



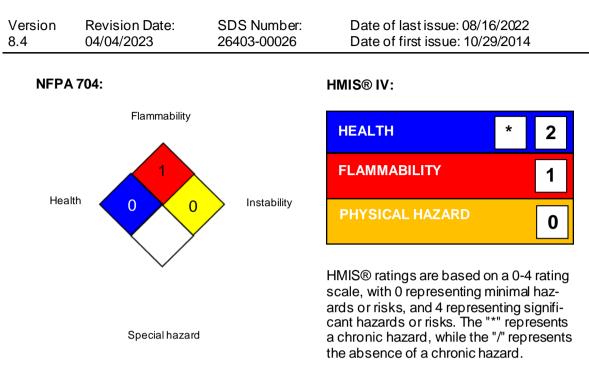


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| | • | | es Reportable Quantity Its with a section 304 EHS RQ. |
| | • | | es Threshold Planning Quantity Its with a section 302 EHS TPQ. |
| SAR | A 311/312 Hazards | : Reproduct Specific ta | ve toxicity rget organ toxicity (single or repeated exposure) |
| SAR | A 313 | known CAS | al does not contain any chemical components with S numbers that exceed the threshold (De Minimis) evels established by SARA Title III, Section 313. |
| US S | tate Regulations | | |
| Penn | sylvania Right To Kn Water fenbendazole Silicon, amorphou | | 7732-18-5 43210-67-9 112945-52-5 |
| Calif | ornia Permissible Exp Silicon, amorphou | | Chemical Contaminants 112945-52-5 |
| The i AICS | • | oduct are reporte : not determ | ed in the following inventories: ined |
| DSL | | : not determ | ined |
| IECS | С | : not determ | ined |

SECTION 16. OTHER INFORMATION

Further information





Full text of other abbreviations

| NIOSH REL OSHA Z-3 | | USA. NIOSH Recommended Exposure Limits USA. Occupational Exposure Limits (OSHA) - Table Z-3 Min- eral Dusts |
|-----------------------|---|---|
| NIOSH REL / TWA | : | Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek |
| OSHA Z-3 / TWA | : | 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% 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 concern-





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ing 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 : | Internal technical data, data from raw material SDSs, OECD |
|-------------------------------|--|
| | eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/ |

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