

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

| 1.1 Product identifier | |
|---|--|
| Product Name | Hafnium Disulfide Powder |
| Synonyms | Hafnium sulphide, Bis(sulfanylidene)hafnium |
| Chemical Name | Hafnium Disulfide |
| Chemical Formula | HfS2 |
| CAS No. | 18855-94-2 |
| EC No. | 242-629-5 |
| Index No. | Not available. |
| REACH Registration No. | Not applicable. |
| 1.2 Relevant identified uses of the sub | stance or mixture and uses advised against |
| Identified Use(s) | PC21 Laboratory chemicals, Research and development use only |
| 1.3 Details of the supplier of the safety | / data sheet |
| Company Identification | Ossila Limited |
| Address of Supplier | Solpro Business Park |

| Address of Supplier | Solpro Business Park |
|--------------------------------|---------------------------------|
| | Windsor Street |
| | Sheffield |
| Postal code | S4 7WB, UK |
| Telephone: | +441142999180 |
| E-mail | info@ossila.com |
| Office hours | 08:00 - 17:00 |
| 1.4 Emergency telephone number | |
| Emergency Phone # | +44 (0) 20 3885 0382 (CHEMTREC) |
| | |

| Other Regions | Emergency Phone Number (CHEMTREC) | |
|-----------------------------|-----------------------------------|--|
| Europe, Middle East, Africa | +44 20 3885 0382 | |
| North America | +1 703 527 3887 | |
| Central America | +52 55 8526 4930 | |
| South America | +55 11 4349 1359 | |
| Asia, India, and Oceania | +65 3163 8374 | |

SECTION 2: HAZARDS IDENTIFICATION

| 2.1 Classification of the substance or Regulation (EC) No. 1272/2008 (CLP) | mixture Skin Irrit. 2: Causes skin irritation Eye Irrit. 2: Causes serious eye irritation STOT SE 3: May cause respiratory irritation |
|--|--|
| 2.2 Label elements | |
| Product Name | According to Regulation (EC) No. 1272/2008 (CLP) Hafnium Disulfide Powder |
| Hazard Pictogram(s) | GHS07 |
| Signal Word(s) | Warning |
| Hazard Statement(s) | H315: Causes skin irritation H319: Causes serious eye irritation H335: May cause respiratory irritation |
| Precautionary Statement(s) | P302 + P352: IF ON SKIN: Wash with plenty of water. P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P312: Call a POISON CENTER or doctor if you feel unwell. P337 + P313: If eye irritation persists: Get medical advice/attention. |
| 2.3. Other hazards | |

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. 2.4 Additional Information

Not applicable.



SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

| Hazardolle indredientiet | CAS No. | EC No. | %W/W | Hazard Statement(s) |
|---|--|---|--|---|
| Hazardous ingredient(s) Hafnium Disulfide | 18855-94-2 | 242-629-5 | <= 100 | Skin Irrit. 2 H315 |
| | 10033-34-2 | 242-025-5 | <= 100 | Eye Irrit. 2 H319 |
| | | | | STOT SE 3 H335 |
| | | | | |
| 0 Mistage | | | | |
| 8.2 Mixtures | | | | |
| Not applicable. | | | | |
| SECTION 4: FIRST AID MEAS | SURES | | | |
| | | | | |
| I.1 Description of first aid m General Advice | | lere chould encure th | ev have taken ad | equate steps to protect themselves |
| | | | | equate steps to protect memserves ed personal protection equipment) |
| | | his safety data sheet | | |
| nhalation | | | | able for breathing. Get medical |
| | advice/a | attention if you feel ui | nwell. | - |
| Skin Contact | | | | get medical advice/attention. |
| Eye Contact | | | | s. Remove contact lenses, if present |
| ngaation | | sy to do. Continue ring | | odattantian if you feel wowell |
| ngestion .2 Most important sympton | | | | ce/attention if you feel unwell. |
| | | | | ute and delayed, are included on |
| | labelling | g (Section 2.2) and in | Section 11. | |
| 4.3 Indication of any immedi | iate medical attenti | ion and special trea | | |
| | Treat sy | mptomatically. | | |
| SECTION 5: FIREFIGHTING | | | | |
| COTION J. FIREFIGHTING | ILAJUNEJ | | | |
| 5.1 Extinguishing media | | | | |
| Suitable Extinguishing media | | opriate for surroundin | | |
| Unsuitable extinguishing media | | opriate for surroundin | ng fire. | |
| 5.2 Special hazards arising f | | | | |
| | | | | |
| | | n oxides | | |
| 3 Advice for firefighters | Hafnium Sulfur o | | | |
| 5.3 Advice for firefighters | Sulfur o | xides | nplete protective (| clothing including self-contained |
| 5.3 Advice for firefighters | Sulfur o Fire figh | xides | nplete protective | clothing including self-contained |
| | Sulfur o Fire figh breathir | xides nters should wear cor ng apparatus. | nplete protective | clothing including self-contained |
| 5.3 Advice for firefighters SECTION 6: ACCIDENTAL RI | Sulfur o Fire figh breathir | xides nters should wear cor ng apparatus. | nplete protective | clothing including self-contained |
| SECTION 6: ACCIDENTAL RI | Sulfur o Fire figh breathir ELEASE MEASURE | xides nters should wear cor ng apparatus. E S | | clothing including self-contained |
| SECTION 6: ACCIDENTAL RI | Sulfur o Fire figh breathir ELEASE MEASURE rotective equipmen | xides nters should wear cor ng apparatus. ES nt and emergency pi | rocedures | |
| SECTION 6: ACCIDENTAL RI | Sulfur o Fire figh breathir ELEASE MEASURE rotective equipmen Follow s | xides nters should wear cor ng apparatus. ES nt and emergency pi | ocedures and personal prot | ective equipment recommendations |
| | Sulfur o Fire figh breathin ELEASE MEASURE rotective equipmen Follow s (as per ms | xides hters should wear cor hg apparatus. ES ht and emergency pro- safe handling advice section 8). Provide advice | ocedures and personal prot dequate ventilatio | ective equipment recommendations |
| SECTION 6: ACCIDENTAL RI 5.1 Personal precautions, pr 5.2 Environmental precautio | Sulfur o Fire figh breathin ELEASE MEASURE rotective equipmen Follow s (as per ons Avoid re | xides hters should wear cor hg apparatus. ES ht and emergency prisate handling advice section 8). Provide ar elease to the environm | ocedures and personal prot dequate ventilatio | ective equipment recommendations |
| SECTION 6: ACCIDENTAL RI | Sulfur o Fire figh breathin ELEASE MEASURE rotective equipmen Follow s (as per bns Avoid re r containment and | xides hters should wear cor hg apparatus. ES ht and emergency prise safe handling advice section 8). Provide an elease to the environmal cleaning up | ocedures and personal prot dequate ventilatio ment. | ective equipment recommendations n. |
| SECTION 6: ACCIDENTAL RI 5.1 Personal precautions, pr 5.2 Environmental precautio | Sulfur o Fire figh breathin ELEASE MEASURE Totective equipmen Follow s (as per sons Avoid re r containment and Sweep | xides hters should wear cor ng apparatus. ES It and emergency pr safe handling advice section 8). Provide a elease to the environr cleaning up up spilled substance | rocedures and personal prot dequate ventilatio nent. - avoid making du | ective equipment recommendations n. ust. Use vacuum equipment for |
| SECTION 6: ACCIDENTAL RI 5.1 Personal precautions, pr 5.2 Environmental precautio | Sulfur o Fire figh breathin ELEASE MEASURE Totective equipmen Follow s (as per sons Avoid re r containment and Sweep collectir | xides hters should wear cor hg apparatus. ES It and emergency pr safe handling advice section 8). Provide a belease to the environr cleaning up up spilled substance hg spilt materials, who | rocedures and personal prot dequate ventilatio nent. - avoid making du ere practicable. D | ective equipment recommendations n. |
| SECTION 6: ACCIDENTAL RI 5.1 Personal precautions, pr 5.2 Environmental precautio 5.3 Methods and material for | Sulfur o Fire figh breathin ELEASE MEASURE rotective equipmen Follow s (as per sons Avoid re r containment and Sweep collectin local, st | xides hters should wear cor ng apparatus. ES It and emergency pr safe handling advice section 8). Provide a elease to the environr cleaning up up spilled substance | rocedures and personal prot dequate ventilatio nent. - avoid making du ere practicable. D | ective equipment recommendations n. ust. Use vacuum equipment for |
| ECTION 6: ACCIDENTAL RI 1 Personal precautions, pr 2 Environmental precautio 3 Methods and material for | Sulfur o Fire figh breathin ELEASE MEASURE rotective equipmen Follows (as per Sons Avoid re r containment and Sweep collectin local, st | xides hters should wear cor hg apparatus. ES It and emergency pr safe handling advice section 8). Provide a belease to the environr cleaning up up spilled substance hg spilt materials, who | rocedures and personal prot dequate ventilatio nent. - avoid making du ere practicable. D | ective equipment recommendations n. ust. Use vacuum equipment for |
| SECTION 6: ACCIDENTAL RI 5.1 Personal precautions, pr 5.2 Environmental precautio 5.3 Methods and material for 5.4 Reference to other sectio | Sulfur o Fire figh breathin ELEASE MEASURE rotective equipmen Follow s (as per as Avoid re r containment and Sweep collectin local, st See Als | xides hters should wear cor- ng apparatus. ES At and emergency pro- safe handling advice section 8). Provide and clease to the environing cleaning up up spilled substance ng spillt materials, where ate or national legisla | rocedures and personal prot dequate ventilatio nent. - avoid making du ere practicable. D | ective equipment recommendations n. ust. Use vacuum equipment for |
| SECTION 6: ACCIDENTAL RI 5.1 Personal precautions, pr 5.2 Environmental precautio 5.3 Methods and material for 5.4 Reference to other sectio | Sulfur o Fire figh breathin ELEASE MEASURE rotective equipmen Follow s (as per as Avoid re r containment and Sweep collectin local, st See Als | xides hters should wear cor- ng apparatus. ES At and emergency pro- safe handling advice section 8). Provide and clease to the environing cleaning up up spilled substance ng spillt materials, where ate or national legisla | rocedures and personal prot dequate ventilatio nent. - avoid making du ere practicable. D | ective equipment recommendations n. ust. Use vacuum equipment for |
| SECTION 6: ACCIDENTAL RI 5.1 Personal precautions, pr 5.2 Environmental precautio 5.3 Methods and material for 5.4 Reference to other section SECTION 7: HANDLING AND | Sulfur o Fire figh breathin ELEASE MEASURE rotective equipmen Follow s (as per collective collectin local, st StorAGE | xides hters should wear cor- ng apparatus. ES At and emergency pro- safe handling advice section 8). Provide and clease to the environing cleaning up up spilled substance ng spillt materials, where ate or national legisla | rocedures and personal prot dequate ventilatio nent. - avoid making du ere practicable. D | ective equipment recommendations n. ust. Use vacuum equipment for |
| SECTION 6: ACCIDENTAL RI 5.1 Personal precautions, pr 5.2 Environmental precautio 5.3 Methods and material for 5.4 Reference to other section SECTION 7: HANDLING AND 7.1 Precautions for safe han | Sulfur o Fire figh breathin ELEASE MEASURE rotective equipmen Follow s (as per (as per collection r containment and Sweep collection local, st StorAGE dling | xides hters should wear cor- ng apparatus. ES It and emergency pr safe handling advice section 8). Provide an elease to the environ cleaning up up spilled substance ng spill materials, whe ate or national legisla- to Section 8, 13. | rocedures and personal prot dequate ventilatio ment. - avoid making du ere practicable. D ttion. | ective equipment recommendations n. ust. Use vacuum equipment for ispose of contents in accordance with |
| SECTION 6: ACCIDENTAL RI 5.1 Personal precautions, pr 5.2 Environmental precautio | Sulfur o Fire figh breathin ELEASE MEASURE rotective equipmen Follow s (as per Sons Avoid re r containment and Sweep collectir local, st See Als STORAGE dling Avoid in | xides hters should wear cor- ng apparatus. ES At and emergency pro- safe handling advice section 8). Provide and clease to the environ cleaning up up spilled substance ng spill materials, when ate or national legisla- to Section 8, 13. whalation, ingestion, a | rocedures and personal prot dequate ventilatio ment. - avoid making du ere practicable. D tition. | ective equipment recommendations n. ust. Use vacuum equipment for ispose of contents in accordance with kin and eyes. Use only in a well- |
| SECTION 6: ACCIDENTAL RI 5.1 Personal precautions, pr 5.2 Environmental precautio 5.3 Methods and material for 5.4 Reference to other section SECTION 7: HANDLING AND 7.1 Precautions for safe han Advice on safe handling | Sulfur o Fire figh breathin ELEASE MEASURE rotective equipmen Follow s (as per Solow s (as per collectin local, st collectin local, st See Als STORAGE dling Avoid in ventilate | xides hters should wear cor- ng apparatus. ES At and emergency pro- safe handling advice section 8). Provide and clease to the environer- cleaning up up spilled substance- ng spill materials, when ate or national legisla- to Section 8, 13. Analation, ingestion, a ed area. Wear protec | rocedures and personal prot dequate ventilatio ment. - avoid making du ere practicable. D tition. | ective equipment recommendations n. ust. Use vacuum equipment for ispose of contents in accordance with kin and eyes. Use only in a well- er section 8. |
| SECTION 6: ACCIDENTAL RI 5.1 Personal precautions, pr 5.2 Environmental precautio 5.3 Methods and material for 5.4 Reference to other section SECTION 7: HANDLING AND 7.1 Precautions for safe han Advice on safe handling | Sulfur o Fire figh breathin ELEASE MEASURE rotective equipmen Follow s (as per ons Avoid re r containment and Sweep collectin local, st ons See Als STORAGE dling Avoid in ventilate Keep av | xides hters should wear cor- ng apparatus. ES At and emergency pro- safe handling advice section 8). Provide and clease to the environer- cleaning up up spilled substance- ng spill materials, when ate or national legisla- to Section 8, 13. Analation, ingestion, a ed area. Wear protec | rocedures and personal prot dequate ventilatio ment. - avoid making du ere practicable. D tition. | ective equipment recommendations n. ust. Use vacuum equipment for ispose of contents in accordance with kin and eyes. Use only in a well- |
| SECTION 6: ACCIDENTAL RI 5.1 Personal precautions, pr 5.2 Environmental precautio 5.3 Methods and material for 5.4 Reference to other section SECTION 7: HANDLING AND 7.1 Precautions for safe han Advice on safe handling Hygiene measures | Sulfur o Fire figh breathin ELEASE MEASURE rotective equipmen Follow s (as per ons Avoid re r containment and Sweep collectin local, st ons See Als STORAGE dling Avoid in ventilate Keep av the end | Axides hters should wear cor- ng apparatus. ES At and emergency pro- safe handling advice section 8). Provide and elease to the environer- cleaning up up spilled substance ng spill materials, when ate or national legisla to Section 8, 13. Analation, ingestion, a ed area. Wear protect way from food and dr of workday. | rocedures and personal prot dequate ventilatio ment. - avoid making du ere practicable. D tition. | ective equipment recommendations n. ust. Use vacuum equipment for ispose of contents in accordance with kin and eyes. Use only in a well- er section 8. |
| SECTION 6: ACCIDENTAL RI 5.1 Personal precautions, pr 5.2 Environmental precautio 5.3 Methods and material for 5.4 Reference to other section SECTION 7: HANDLING AND 7.1 Precautions for safe han Advice on safe handling Hygiene measures | Sulfur o Fire figh breathin ELEASE MEASURE rotective equipmen Follow s (as per ons Avoid re r containment and Sweep collectin local, st ons See Als STORAGE dling Avoid in ventilate Keep av the end | Axides hters should wear cor- ng apparatus. ES At and emergency pro- safe handling advice section 8). Provide and elease to the environer- cleaning up up spilled substance ng spill materials, when ate or national legisla to Section 8, 13. Analation, ingestion, a ed area. Wear protect way from food and dr of workday. | rocedures and personal prot dequate ventilatio ment. - avoid making du ere practicable. D tition. | ective equipment recommendations n. ust. Use vacuum equipment for ispose of contents in accordance with kin and eyes. Use only in a well- er section 8. after handling, before breaks, and at |
| SECTION 6: ACCIDENTAL RI 5.1 Personal precautions, pr 5.2 Environmental precautio 5.3 Methods and material for 5.4 Reference to other sectio SECTION 7: HANDLING AND 7.1 Precautions for safe han Advice on safe handling Hygiene measures 7.2 Conditions for safe stora Storage temperature | Sulfur o Fire figh breathin ELEASE MEASURE rotective equipmen Follow s (as per ons Avoid re r containment and Sweep collectin local, st ons SEE Als STORAGE dling Avoid in ventilate Keep av the end age, including any i Store in Ambien | Axides hters should wear cor- ng apparatus. ES At and emergency pro- safe handling advice section 8). Provide and elease to the environer- cleaning up up spilled substance ing spilt materials, where ate or national legislation to Section 8, 13. Analation, ingestion, are ded area. Wear protect way from food and dr of workday. a well-ventilated place t. | rocedures and personal prot dequate ventilatio ment. - avoid making du ere practicable. D tion. nd contact with sl tive clothing as pe ink. Wash hands ce. Keep containe | ective equipment recommendations n. ust. Use vacuum equipment for ispose of contents in accordance with kin and eyes. Use only in a well- er section 8. after handling, before breaks, and at |
| SECTION 6: ACCIDENTAL RI 5.1 Personal precautions, pr 5.2 Environmental precautio 5.3 Methods and material for 5.4 Reference to other sectio SECTION 7: HANDLING AND 7.1 Precautions for safe han Advice on safe handling Hygiene measures 7.2 Conditions for safe stora Storage temperature Storage temperature Storage life | Sulfur o Fire figh breathin ELEASE MEASURE rotective equipmen Follow s (as per ons Avoid re r containment and Sweep collectin local, st StoraGE dling Avoid in ventilate Keep av the end age, including any Store in Ambien Stable u | Axides hters should wear cor- ng apparatus. ES It and emergency pro- safe handling advice section 8). Provide and elease to the environer- cleaning up up spilled substance ng spilt materials, whe ate or national legisla to Section 8, 13. Analation, ingestion, a ed area. Wear protect way from food and dr of workday. incompatibilities a well-ventilated plant. under normal condition | rocedures and personal prot dequate ventilatio ment. - avoid making du ere practicable. D tion. nd contact with sl tive clothing as pe ink. Wash hands ce. Keep containe | ective equipment recommendations n. ust. Use vacuum equipment for ispose of contents in accordance with kin and eyes. Use only in a well- er section 8. after handling, before breaks, and at |
| SECTION 6: ACCIDENTAL RI 5.1 Personal precautions, pr 5.2 Environmental precautio 5.3 Methods and material for 5.4 Reference to other section SECTION 7: HANDLING AND 7.1 Precautions for safe han Advice on safe handling | Sulfur o Fire figh breathin ELEASE MEASURE rotective equipmen Follow s (as per ons Avoid re r containment and Sweep collectin local, st ons SEE Als STORAGE dling Avoid in ventilate Keep av the end age, including any i Store in Ambien | Axides hters should wear cor- ng apparatus. ES It and emergency pro- safe handling advice section 8). Provide and elease to the environer- cleaning up up spilled substance ng spilt materials, whe ate or national legisla to Section 8, 13. Analation, ingestion, a ed area. Wear protect way from food and dr of workday. incompatibilities a well-ventilated plant. under normal condition | rocedures and personal prot dequate ventilatio ment. - avoid making du ere practicable. D tion. nd contact with sl tive clothing as pe ink. Wash hands ce. Keep containe | ective equipment recommendations n. ust. Use vacuum equipment for ispose of contents in accordance with kin and eyes. Use only in a well- er section 8. after handling, before breaks, and at |



SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

| | - | |
|----|---------|------------|
| 81 | Control | parameters |
| | | |

8.1.1 Occupational Exposure Limits

| No Occupational Exposure Limit assigned. |
|--|
| |
| Ensure adequate ventilation and/or exhaust. A washing facility/water for eye and skin cleaning purposes should be present. |
| |
| Wear eye protection with side protection tested and approved under appropriate government standards such as EN166 (EU). |
| Handle with gloves. Gloves must be inspected prior to use and proper glove removal techniques should be used. The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it. |
| Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. |
| Where risk assessment shows air-purifying respirators are appropriate use a full- face particle respirator type N99 (US) or type P2 (EN 143) respirator cartridges as a backup to engineering controls. |
| None known. |
| Avoid release to the environment. |
| |

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

| 9.1 Information on basic physical and | chemical properties |
|---|--------------------------------|
| Physical State | Solid: Powder. |
| Colour | Dark Red. |
| Odour | Not known. |
| Odour threshold | Not known. |
| Melting point/freezing point | Not known. |
| Initial boiling point and boiling range | Not known. |
| Flammability | Not known. |
| Lower and upper explosion limit | Not known. |
| Flash Point | Not known. |
| Auto-ignition temperature (°C) | Not known. |
| Decomposition temperature (°C) | Not known. |
| рН | Not known. |
| Kinematic viscosity | Not known. |
| Solubility(ies) | Solubility (Water): Not known. |
| | Solubility (Other): Not known. |
| Partition coefficient: n-octanol/water (log | Not known. |
| value) | Not known. |
| Vapour pressure | |
| Density | Not known. |
| Relative density | Not known. |
| Relative vapour density | Not known. |
| Particle characteristics | Not known. |
| 9.2 Other information | Alexa. |
| | None. |
| | |

| SECTION 10: STABILITY AND RE | EACTIVITY |
|-----------------------------------|--|
| 10.1 Reactivity | |
| 2 | None anticipated. |
| 10.2 Chemical Stability | · |
| | Stable under recommended storage conditions. |
| 10.3 Possibility of hazardous rea | actions |
| | Not known. |
| 10.4 Conditions to avoid | |
| | Not known. |
| 10.5 Incompatible materials | |
| | Not known. |
| 10.6 Hazardous decomposition | products |
| | In the event of fire: see Section 5 |

SECTION 11: TOXICOLOGICAL INFORMATION

| 11.1 Information on toxicologica | leffects |
|----------------------------------|--------------------|
| Acute toxicity - Ingestion | No data available. |
| Acute toxicity - Skin Contact | No data available. |
| Acute toxicity - Inhalation | No data available. |
| Skin corrosion/irritation | No data available. |
| Serious eye damage/irritation | No data available. |



| Skin sensitization data | No data available. |
|--|---|
| Respiratory sensitization data | No data available. |
| Germ cell mutagenicity | No data available. |
| Carcinogenicity | No data available. |
| Reproductive toxicity Lactation | No data available. No data available. |
| STOT - single exposure | No data available. |
| STOT - repeated exposure | No data available. |
| Aspiration hazard | No data available. |
| 11.2 Information on other hazards | |
| 11.2.1 Endocrine disrupting properties | |
| | None known. |
| 11.2.2. Information on other hazards | None Iroun |
| | None known. |
| SECTION 12: ECOLOGICAL INFORMA | TION |
| 12.1 Toxicity | |
| | No data available. |
| Toxicity - Aquatic invertebrates | No data available. |
| Toxicity - Fish | No data available. |
| Toxicity - Algae | No data available. |
| Toxicity - Sediment Compartment | Not classified. |
| Toxicity - Terrestrial Compartment | Not classified. |
| 12.2 Persistence and Degradation | Not known. |
| 12.3 Bioaccumulative potential | |
| 12.5 Dioaccumulative potential | Not known. |
| 12.4 Mobility in soil | |
| - | Not known. |
| 12.5 Results of PBT and vPvB assess | |
| | This substance/mixture contains no components considered to be either persistent, |
| | bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative |
| 12.6 Endocrine disrupting properties | (vPvB) at levels of 0.1% or higher. |
| 12.0 Endocrine disrupting properties | Not known. |
| | |
| 12.7 Other adverse effects | |
| 12.7 Other adverse effects | Not known. |
| 12.7 Other adverse effects SECTION 13: DISPOSAL CONSIDERAT | Not known. |
| SECTION 13: DISPOSAL CONSIDERAT | Not known. |
| | Not known. |
| SECTION 13: DISPOSAL CONSIDERAT | Not known. TIONS Dispose of contents in accordance with local, state or national legislation. Recycle |
| SECTION 13: DISPOSAL CONSIDERAT | Not known. TIONS Dispose of contents in accordance with local, state or national legislation. Recycle only completely emptied packaging. Normal disposal is via incineration operated by |
| SECTION 13: DISPOSAL CONSIDERAT | Not known. TIONS Dispose of contents in accordance with local, state or national legislation. Recycle only completely emptied packaging. Normal disposal is via incineration operated by an accredited disposal contractor. Send to a licensed recycler, reclaimer or |
| SECTION 13: DISPOSAL CONSIDERAT | Not known. TIONS Dispose of contents in accordance with local, state or national legislation. Recycle only completely emptied packaging. Normal disposal is via incineration operated by |
| SECTION 13: DISPOSAL CONSIDERAT | Not known. TIONS Dispose of contents in accordance with local, state or national legislation. Recycle only completely emptied packaging. Normal disposal is via incineration operated by an accredited disposal contractor. Send to a licensed recycler, reclaimer or |
| SECTION 13: DISPOSAL CONSIDERAT 13.1 Waste treatment methods 13.2 Additional Information | Not known. TIONS Dispose of contents in accordance with local, state or national legislation. Recycle only completely emptied packaging. Normal disposal is via incineration operated by an accredited disposal contractor. Send to a licensed recycler, reclaimer or incinerator. Disposal should be in accordance with local, state or national legislation. |
| SECTION 13: DISPOSAL CONSIDERAT | Not known. TIONS Dispose of contents in accordance with local, state or national legislation. Recycle only completely emptied packaging. Normal disposal is via incineration operated by an accredited disposal contractor. Send to a licensed recycler, reclaimer or incinerator. Disposal should be in accordance with local, state or national legislation. |
| SECTION 13: DISPOSAL CONSIDERAT 13.1 Waste treatment methods 13.2 Additional Information | Not known. TIONS Dispose of contents in accordance with local, state or national legislation. Recycle only completely emptied packaging. Normal disposal is via incineration operated by an accredited disposal contractor. Send to a licensed recycler, reclaimer or incinerator. Disposal should be in accordance with local, state or national legislation. |
| SECTION 13: DISPOSAL CONSIDERAT 13.1 Waste treatment methods 13.2 Additional Information SECTION 14: TRANSPORT INFORMAT | Not known. TIONS Dispose of contents in accordance with local, state or national legislation. Recycle only completely emptied packaging. Normal disposal is via incineration operated by an accredited disposal contractor. Send to a licensed recycler, reclaimer or incinerator. Disposal should be in accordance with local, state or national legislation. ION Not classified as hazardous for transport. |
| SECTION 13: DISPOSAL CONSIDERAT 13.1 Waste treatment methods 13.2 Additional Information SECTION 14: TRANSPORT INFORMAT IATA/IMO/RID/ADR SECTION 15: REGULATORY INFORMA | Not known. TIONS Dispose of contents in accordance with local, state or national legislation. Recycle only completely emptied packaging. Normal disposal is via incineration operated by an accredited disposal contractor. Send to a licensed recycler, reclaimer or incinerator. Disposal should be in accordance with local, state or national legislation. ION Not classified as hazardous for transport. TION |
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concerning the export and import of hazardous chemicals **National regulations** Other **15.2 Chemical Safety Assessment**

A REACH chemical safety assessment has not been carried out.

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements:

Not known.

LEGEND

Disclaimers

| ADN : European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
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| ADR : European Agreement concerning the International Carriage of Dangerous Goods by Road |
| CAS : Chemical Abstracts Service |
| CLP : Regulation (EC) No 1272/2008 on classification, labelling and packaging of |
| substances and mixtures |
| DNEL : Derived No Effect Level |
| EC : European Community |
| EINECS : European Inventory of Existing Commercial Chemical Substances |
| IATA : International Air Transport Association |
| IBC : Intermediate Bulk Container |
| ICAO : International Civil Aviation Organization |
| IMDG : International Maritime Dangerous Goods |
| LTEL : Long term exposure limit |
| PBT : Persistent, Bioaccumulative and Toxic |
| PNEC : Predicted No Effect Concentration |
| REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals |
| RID : Regulations concerning the International Carriage of Dangerous Goods by Rail |
| STEL : Short term exposure limit |
| STOT : Specific Target Organ Toxicity |
| UN : United Nations |
| vPvB : very Persistent and very Bioaccumulative |
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