Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878

SAFETY DATA SHEET

Copper



SECTION 1: Identification of the substance/mixture and of the company/ undertaking

| 1.1 Product identifier | |
|----------------------------------|---|
| Product name | : Copper |
| EC number | : 231-159-6 |
| CAS number | : 7440-50-8 |
| Product code | : Not applicable |
| Product description | : solid: bulk |
| Product type | : Metal. |
| Other means of identification | : Copper Cathode, Electrowon Copper Cathode |
| Chemical formula | : Cu |

1.2 Relevant identified uses of the substance or mixture and uses advised against

| Identified uses | | | |
|--|---------------------------------------|--|--|
| Production of copper fire-refined ingots, and unwrought shape | | | |
| Production of copper particulates and powder | | | |
| Production of alloys in which copper is the main constituent as well | as where it is minor alloying element | | |
| Production of copper powder containing preparations | | | |
| Production of copper containing articles | | | |
| Production of article made from copper and copper containing parti | culates | | |
| Use as an intermediate in the production of other copper containing | substances | | |
| Use as brazing paste | | | |
| Use as catalyst | | | |
| Used in articles | | | |
| Use as spray coating agent | | | |
| Use of article made from copper and copper containing particulates | | | |
| Uses advised against | Reason | | |
| None Identified | | | |

1.3 Details of the supplier of the safety data sheet

Vale Canada Limited, 200 Bay Street, Royal Bank Plaza, Suite 1500, South Tower, PO Box 70, Toronto, Ontario, Canada, M5J 2K2, Email: msds@vale.com

e-mail address of person : msds@vale.com responsible for this SDS

National contact

Manufacturer

Vale Canada Limited, Ontario Operations, Sudbury, Ontario, Canada P0M 1N0, Email: msds@vale.com Vale Canada Newfoundland and Labrador, 1 Nickel Road, PO Box 39, Long Harbour, NL, Canada, A0B 2J0, Email: msds@vale.com

Distribution

Vale Canada Limited, 200 Bay Street, Royal Bank Plaza, Suite 1500, South Tower, PO Box 70, Toronto, Ontario, Canada, M5J 2K2, Email: msds@vale.com

Importer

Vale Americas Inc., 140 E. Ridgewood Avenue, Suite 415, South Tower, Paramus, NJ 07652, U.S.A, Email: msds@vale.com

Vale Base Metals Asia Pacific PTE. Limited, One Temasek Avenue #39-01, Millenia Tower, Singapore, 039192, Email: msds@vale.com

Vale International SA, Route de Pallatex 29, 1162 Saint-Prex, Switzerland, Email: msds@vale.com Vale Holdings BV, Piet Heinkade 55, 1019GM, Amsterdam, The Netherlands, Telephone Number 31 20 308 5644

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|---|------------------------|-------------|--------------------|----|
|---|------------------------|-------------|--------------------|----|

SECTION 1: Identification of the substance/mixture and of the company/ undertaking

214, Email: msds@vale.com

1.4 Emergency telephone number

National advisory body/Poison Center

| Telephone number | : None identified. |
|-------------------------|---|
| Supplier | |
| Telephone number | : For Fire, Spill, or Chemical Emergency call CHEMTREC: +1 703 527-3887; for Europe call CHEMTREC: +(44) 870 8200418 |
| Hours of operation | : 24-hour telephone and/or website |
| Information limitations | : Emergency essential information |

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture Product definition : Mono-constituent substance Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Not applicable

See Section 16 for the full text of the H statements declared above. See Section 11 for more detailed information on health effects and symptoms.

2

2.2 Label elements

Hazard pictograms

| Signal word | No signal word. | |
|---|---|--------|
| Hazard statements | No known significant effects or critical hazards. | |
| Precautionary statements | | |
| Prevention | Avoid release to the environment. | |
| Response | Collect spillage. | |
| Storage | Not applicable. | |
| Disposal | Dispose of contents and container in accordance with all local, regional, nat and international regulations. | tional |
| Hazardous ingredients | copper | |
| Supplemental label elements | Not applicable. | |
| Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles | Not applicable. | |
| Special packaging requirem | <u>s</u> | |
| Containers to be fitted with child-resistant fastenings | Not applicable. | |
| Tactile warning of danger | Not applicable. | |

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878

Copper

SECTION 2: Hazards identification

5

2.3 Other hazards

| Product meets the criteria for PBT or vPvB according | |
|--|--|
| to Regulation (EC) No. 1907/2006, Annex XIII | |

| PBT | Р | В | Т | vPvB | vP | vB | |
|----------------------------------|-----|-----|-----|----------------------------------|-----|-----|--|
| Not applicable (Inorganic) | N/A | N/A | N/A | Not applicable (Inorganic) | N/A | N/A | |

Other hazards which do not result in classification

: None known.

SECTION 3: Composition/information on ingredients

| 3.1 Substances | : Mono-constitu | ent substan | се | | |
|-------------------------|---------------------------------|-------------|---|---|------|
| Product/ingredient name | Identifiers | % | Classification | Specific Conc. Limits, M-factors and ATEs | Туре |
| copper | EC: 231-159-6 CAS: 7440-50-8 | 100 | See Section 16 for the full text of the H statements declared above. | - | [1] |

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

Туре

[1] Constituent

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Skin contact : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Ingestion ÷. Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training.

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

| Eye contact | : Adverse symptoms may include the following: irritation redness |
|--------------|---|
| Inhalation | Adverse symptoms may include the following: respiratory tract irritation coughing |
| Skin contact | : No specific data. |
| Ingestion | : No specific data. |

| 4.3 Indication of any imme | diate medical att | ention and special treat | ment needed | |
|--------------------------------|-------------------|--|-------------|--------------------------|
| Notes to physician | | tomatically. Contact poise ave been ingested or inha | | ist immediately if large |
| Specific treatments | : No specific | treatment. | | |
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SECTION 5: Firefighting measures

| - | - |
|---|---|
| 5.1 Extinguishing media | |
| Suitable extinguishing media | : Use an extinguishing agent suitable for the surrounding fire. |
| Unsuitable extinguishing media | None known. |
| 5.2 Special hazards arising f | m the substance or mixture |
| Hazards from the substance or mixture | No specific fire or explosion hazard. |
| Hazardous combustion products | Decomposition products may include the following materials: metal oxide/oxides |
| 5.3 Advice for firefighters | |
| Special protective actions for fire-fighters | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. |
| Special protective equipment for fire-fighters | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents. |

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

| For non-emergency personnel | : | No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing dust. Put on appropriate personal protective equipment. |
|---------------------------------|-----|--|
| For emergency responders | : | If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". |
| 6.2 Environmental precautions | : | Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage. |
| 6.3 Methods and materials for | r c | ontainment and cleaning up |
| Small spill | : | Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. |
| Large spill | : | Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Avoid creating dusty conditions and prevent wind dispersal. Dispose of via a licensed waste disposal contractor. |
| 6.4 Reference to other sections | : | See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information. |

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

| Protective measures | : Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing dust. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. |
|--|--|
| Advice on general occupational hygiene | : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. |

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Keep container tightly closed and sealed until ready for use. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Seveso Directive - Reporting thresholds

Danger criteriaCategoryNotification and MAPP
thresholdSafety report thresholdNot applicableNot applicableNot applicable

7.3 Specific end use(s)

Recommendations

Not available.

Industrial sector specific solutions

: Not available.

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

8.1 Control parameters

Occupational exposure limits

No exposure limit value known.

Biological exposure indices

No exposure indices known.

Recommended monitoring procedures

 Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

SECTION 8: Exposure controls/personal protection

| Product/ingredient name | Туре | Exposure | Value | Population | Effects |
|-------------------------|------|--------------------------|------------------------|--------------------|----------|
| copper | DNEL | Short term Inhalation | 20 mg/m ³ | Workers | Systemic |
| | DNEL | Long term Oral | 0.041 mg/ kg bw/day | General population | Systemic |
| | DNEL | Short term Inhalation | 1 mg/m ³ | General population | Local |
| | DNEL | Long term Inhalation | 1 mg/m³ | General population | Local |
| | DNEL | Long term Dermal | 137 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Dermal | 137 mg/kg bw/day | Workers | Systemic |
| | DNEL | Short term Dermal | 273 mg/kg bw/day | General population | Systemic |
| | DNEL | Short term Dermal | 273 mg/kg bw/day | Workers | Systemic |

PNECs

| Product/ingredient name | Compartment Detail | Value | Method Detail |
|-------------------------|---|----------------------------------|---------------|
| copper | Fresh water Fresh water sediment Marine water | 7.8 μg/l 87 mg/kg 5.2 μg/l | - |
| | Marine water sediment Soil | 676 mg/kg 65 mg/kg | - |

8.2 Exposure controls

| Appropriate engineering controls | apor or mist, use process | ntilation. If user operations ge enclosures, local exhaust ven p worker exposure to airborne limits. | tilation or other |
|----------------------------------|---|---|--|
| Individual protection meas | | | |
| Hygiene measures | efore eating, smoking and appropriate techniques sho | face thoroughly after handling using the lavatory and at the puld be used to remove potent g before reusing. Ensure that the workstation location. | end of the working period. ially contaminated clothing. |
| Eye/face protection | assessment indicates this i pases or dusts. If contact i inless the assessment ind | with an approved standard sho s necessary to avoid exposure s possible, the following prote cates a higher degree of prote onditions cause high dust con | e to liquid splashes, mists, ction should be worn, ection: safety glasses with |
| Skin protection | | | |
| Hand protection | e worn at all times when h his is necessary. Conside heck during use that the g hould be noted that the tin lifferent for different glove | ious gloves complying with an andling chemical products if a ring the parameters specified loves are still retaining their parameters to breakthrough for any glo manufacturers. In the case of otection time of the gloves can | a risk assessment indicates by the glove manufacturer, rotective properties. It ve material may be f mixtures, consisting of |
| Body protection | | ent for the body should be se sks involved and should be ap t. | |
| Other skin protection | elected based on the task | ny additional skin protection n being performed and the risks fore handling this product. | |
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| SECTION 8: Exposur | e controls/personal protection |
|---------------------------------|---|
| Respiratory protection | : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. |
| Environmental exposure controls | : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels. |

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

| 9.1 Information on basic physical | a | nd chemical properties |
|--|---|---|
| Appearance | | |
| Physical state | : | Solid. |
| Color | 1 | Yellow. Brown. Red. Green. [Dark] |
| Odor | : | Not available. |
| Odor threshold | : | Not available. |
| Melting point/freezing point | : | 1057 to 1058°C [EU A.1] |
| Initial boiling point and | ; | 2595°C (4703°F) |
| boiling range | | |
| Flammability | ÷ | |
| Lower and upper explosion limit | • | Not applicable. |
| Flash point | : | Not applicable. |
| Auto-ignition temperature | : | Not applicable. |
| Decomposition temperature | : | Not available. |
| рН | : | Not available. |
| Viscosity | 1 | Not applicable. |
| Solubility in water | : | Not available. |
| Partition coefficient: n-octanol/ water | : | Not available. |
| Vapor pressure | : | Not available. |
| Relative density | : | 8.9 |
| Density | : | 8.78 g/cm ³ [20°C (68°F)] [EU A.3] |
| Vapor density | 3 | Not applicable. |
| Explosive properties | ÷ | Not available. |
| Oxidizing properties | ÷ | Not available. |
| Particle characteristics | | |
| Median particle size | ÷ | Not available. |
| 9.2 Other information | | |
| 9.2 Other information Molecular weight | | 63.55 g/mole |
| wolecular weight | 1 | 03.03 g/mole |

SECTION 10: Stability and reactivity

| 10.1 Reactivity | : | No specific test data related to reactivity available for this product or its ingredients. |
|--|---|--|
| 10.2 Chemical stability | : | The product is stable. |
| 10.3 Possibility of hazardous reactions | : | Under normal conditions of storage and use, hazardous reactions will not occur. |
| 10.4 Conditions to avoid | : | No specific data. |
| 10.5 Incompatible materials | : | No specific data. |
| 10.6 Hazardous decomposition products | : | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|-------------------------|---------------------------------|--------------|--------------------------|----------|
| copper | LC50 Inhalation Dusts and mists | Rat | 5.11 mg/l | 4 hours |
| | LD50 Dermal LD50 Oral | Mouse Rat | 2000 mg/kg 5000 mg/kg | - |
| Conclusion/Summary | Not available. | | | |

Conclusion/Summary

Acute toxicity estimates

| Product/ingredient name | Oral (mg/ kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapors) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|-------------------------|------------------|-------------------|--------------------------------|----------------------------------|--|
| copper | 5000 | N/A | N/A | N/A | 5.11 |

| Irritation/Corrosion | |
|-----------------------------|---------------------------|
| Conclusion/Summary | : Not available. |
| Sensitization | |
| Conclusion/Summary | : Not available. |
| Mutagenicity | |
| Conclusion/Summary | : Not available. |
| Carcinogenicity | |
| Conclusion/Summary | : Not available. |
| Reproductive toxicity | |
| Conclusion/Summary | : Not available. |
| Teratogenicity | |
| Conclusion/Summary | : Not available. |
| Specific target organ toxic | ity (single exposure) |
| Not available. | |
| Constitution to vis | ity (non-onto-dio-second) |
| Specific target organ toxic | ity (repeated exposure) |

Not available.

Aspiration hazard

Not available.

SECTION 11: Toxicological information

| Information on the likely routes of exposure | : | Not available. |
|--|---|--|
| Potential acute health effects | | |
| Eye contact | : | Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes. |
| Inhalation | : | Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs. |
| Skin contact | ÷ | No known significant effects or critical hazards. |
| Ingestion | : | No known significant effects or critical hazards. |
| | | |

Symptoms related to the physical, chemical and toxicological characteristics

| Eye contact | : Adverse symptoms may include the following: irritation redness |
|--------------|---|
| Inhalation | : Adverse symptoms may include the following: respiratory tract irritation coughing |
| Skin contact | : No specific data. |
| Ingestion | : No specific data. |

Delayed and immediate effects and also chronic effects from short and long term exposure

| Short term exposure | |
|--------------------------------|---|
| Potential immediate effects | : Not available. |
| Potential delayed effects | : Not available. |
| Long term exposure | |
| Potential immediate effects | : Not available. |
| Potential delayed effects | : Not available. |
| Potential chronic health eff | ects |
| Not available. | |
| Conclusion/Summary | : Not available. |
| General | : Repeated or prolonged inhalation of dust may lead to chronic respiratory irritati |
| Carcinogenicity | : No known significant effects or critical hazards. |
| Mutagenicity | : No known significant effects or critical hazards. |
| Reproductive toxicity | : No known significant effects or critical hazards. |
| | |

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available. 11.2.2 Other information Not available.

SECTION 12: Ecological information

12.1 Toxicity

| Product/ingredient name | Result | Species | Exposure |
|-------------------------|--------------------------------|---------|----------|
| copper | Not classified as hazardous. | - | - |
| Conclusion/Summary | : Not classified as hazardous. | | · |

| Date of issue/Date of | revision |
|-----------------------|----------|
|-----------------------|----------|

SECTION 12: Ecological information

12.2 Persistence and degradability

Conclusion/Summary

: The methods for determining the biological degradability are not applicable to inorganic substances.

12.3 Bioaccumulative potential

| Product/ingredient name | LogPow | BCF | Potential |
|-------------------------|--------|-----|-----------------|
| Copper | | | Not expected to |
| | | | bioaccumulate. |

| 12.4 Mobility in soil | |
|-----------------------|-------------------------|
| Soil/water partition | : Insoluble |
| coefficient (Koc) | |
| Mobility | : No results available. |

12.5 Results of PBT and vPvB assessment

| Product/ingredient name | PBT | Р | В | Т | vPvB | vP | vB |
|-------------------------|----------------------------------|-----|-----|-----|----------------------------------|-----|-----|
| copper | Not applicable (Inorganic) | N/A | N/A | N/A | Not applicable (Inorganic) | N/A | N/A |

12.6 Endocrine disrupting properties

Not available.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

| Product | |
|---------------------|---|
| Methods of disposal | : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. |
| Hazardous waste | : Not applicable. |
| Packaging | |
| Methods of disposal | The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. |
| Special precautions | : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. |

SECTION 14: Transport information

| | ADR/RID | ADN | IMDG | IATA |
|------------------------------------|----------------|----------------|----------------|----------------|
| 14.1 UN number or ID number | Not regulated. | Not regulated. | Not regulated. | Not regulated. |
| 14.2 UN proper shipping name | - | - | - | - |
| 14.3 Transport hazard class(es) | - | - | - | - |
| 14.4 Packing group | - | - | - | - |
| 14.5 Environmental hazards | No. | No. | No. | No. |

14.6 Special precautions for user

: **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Maritime transport in bulk according to IMO instruments Remarks

: Solid bulk cargoes

Harmful to the marine environment with regard to MARPOL Annex V: No

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorization

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

| Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles | : Not applicable. |
|---|-------------------|
| Other EU regulations | |
| Industrial emissions (integrated pollution prevention and control) - Air | : Listed |
| Industrial emissions (integrated pollution prevention and control) - Water | : Listed |
| Ozone depleting substanc | es (1005/2009/EU) |
| Not listed. | |
| Prior Informed Consent (P Not listed. | IC) (649/2012/EU) |

SECTION 15: Regulatory information

Persistent Organic Pollutants

Not listed.

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

Category

Not applicable

National regulations

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

| Australia | ÷ | This material is listed or exempted. |
|------------------------------------|---|--|
| Canada | : | This material is listed or exempted. |
| China | 1 | This material is listed or exempted. |
| Eurasian Economic Union | : | Russian Federation inventory: This material is listed or exempted. |
| Japan | : | Japan inventory (CSCL): Not determined. Japan inventory (ISHL): Not determined. |
| New Zealand | : | This material is listed or exempted. |
| Philippines | : | This material is listed or exempted. |
| Republic of Korea | : | This material is listed or exempted. |
| Taiwan | : | This material is listed or exempted. |
| Thailand | : | This material is listed or exempted. |
| Turkey | 1 | This material is listed or exempted. |
| United States | 1 | Not determined. |
| Viet Nam | 1 | This material is listed or exempted. |
| 15.2 Chemical Safety Assessment | : | Not available. |

SECTION 16: Other information

| Indicates information th | has changed from previously issued version. |
|--------------------------------|---|
| Abbreviations and acronyms | ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement N/A = Not available PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration |
| Date of issue/Date of revision | : 1/11/2023 Date of previous issue : 1/11/2023 Version : 2.07 12/13 |

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Copper

SECTION 16: Other information

RRN = REACH Registration Number

SGG = Segregation Group

vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

| Classification | Justification | |
|----------------|---------------|--|
| | | |

Full text of abbreviated H statements

Not applicable

Full text of classifications [CLP/GHS]

| Not applicable | | |
|---------------------------------|-------------|--|
| Date of printing | : 1/11/2023 | |
| Date of issue/ Date of revision | : 1/11/2023 | |
| Date of previous issue | : 1/11/2023 | |
| Version | : 2.07 | |
| Notice to reader | | |

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.