

| Version | Revision Date: |
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| 5.0 | 05.06.2023 |

SDS Number: 102000023148

Print Date: 16.04.2024 Date of first issue: 16.06.2015

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

1.1 Product identifier

| Trade name | : STANDART RESIST ROTOFLEX Brillant Rich Gold Bronze Powder |
|--------------|--|
| Product code | : 069543BP0 |

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

| Use of the | |
|-------------------|--|
| Substance/Mixture | |

: Colouring agents, pigments

1.3 Details of the supplier of the safety data sheet

| Company | : ECKART GmbH Guentersthal 4 91235 Hartenstein |
|--|--|
| Telephone | : +499152770 |
| Telefax | : +499152777008 |
| E-mail address of person responsible for the SDS | : <u>msds.eckart@altana.com</u> |

1.4 Emergency telephone number

NCEC: +44 1235 239670 (Europe) Call and response in your language is possible. Contract no.: ECKART29003-NCEC.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

| Acute toxicity, Category 4 | H302: I |
|-------------------------------------|---------|
| Eye irritation, Category 2 | H319: (|
| Short-term (acute) aquatic hazard, | H400: \ |
| Category 1 | |
| Long-term (chronic) aquatic hazard, | H410: \ |
| Category 1 | effects |

H302: Harmful if swallowed. H319: Causes serious eye irritation. H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)



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| Hazaro | d pictograms | : | | |
| Signal | word | : | Warning | |
| Hazaro | d statements | : | H302 H319 H410 | Harmful if swallowed. Causes serious eye irritation. Very toxic to aquatic life with long lasting effects. |
| Preca | utionary statements | : | Prevention: P264 P273 P280 Response: P337 + P313 P391 Disposal: | Wash skin thoroughly after handling. Avoid release to the environment. Wear eye protection/face protection. If eye irritation persists: Get medical advice/ attention. Collect spillage. |
| | | | P501 | Dispose of contents/ container to an approved waste disposal plant. |

Hazardous components which must be listed on the label: Copper

2.3 Other hazards

Combustible Solids

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.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

| componenta | | | |
|---------------|---------------------|---------------------|----------------|
| Chemical name | CAS-No. | ClassificationREGUL | Concentration |
| | EC-No. | ATION (EC) No | (% w/w) |
| | Index-No. | 1272/2008 | |
| | Registration number | | |
| Copper | 7440-50-8 | Acute Tox. 4; H302 | >= 50 - <= 100 |
| | | Eye Irrit. 2; H319 | |
| | 231-159-6 | Aquatic Acute 1; | |
| | 01-2119480154-42 | H400 | |
| | | Aquatic Chronic 1; | |
| | | H410 | |
| | | | |



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|-------------|------------------------------|---|--|--------|--|
| | | | M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10 | | |
| | oowder — zinc dust lised) | 7440-66-6 231-175-3 030-001-01-9 01-2119467174 | Aquatic Acute 1; >= 25 H400 Aquatic Chronic 1; H410 -37 | - < 50 | |

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

| General advice | : | Move the victim to fresh air. | |
|---|---|---|--|
| | | Move out of dangerous area. Show this safety data sheet to the doctor in attendance. | |
| If inhaled | : | If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician. | |
| In case of skin contact | : | Wash off immediately with soap and plenty of water. | |
| In case of eye contact | : | Immediately flush eye(s) with plenty of water. Remove contact lenses. Keep eye wide open while rinsing. | |
| If swallowed | : | 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. | |
| 4.2 Most important symptoms and effects, both acute and delayed | | | |

| Risks | : | Harmful if swallowed. |
|-------|---|--------------------------------|
| | | Causes serious eye irritation. |

4.3 Indication of any immediate medical attention and special treatment needed This information is not available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Special powder against metal fire



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| | | | Dry sand ABC powder | |
| Unsui media | table extinguishing I | : | Water High volume wate Carbon dioxide (C | |
| - | II hazards arising from fic hazards during hting | | | xture off from fire fighting to enter drains or water |
| Speci | e for firefighters al protective equipment efighters | : | Wear self-contain necessary. | ed breathing apparatus for firefighting if |
| Furthe | er information | : | Standard procedu | ure for chemical fires. |
| | | | must not be disch Fire residues and | ted fire extinguishing water separately. This arged into drains. contaminated fire extinguishing water must accordance with local regulations. |

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

| Personal precautions | : | Use personal protective equipment. Evacuate personnel to safe areas. Use personal protective equipment. Avoid dust formation. Avoid breathing dust. |
|----------------------|---|---|
| | | |

6.2 Environmental precautions

| Environmental precautions | : | The product should not be allowed to enter drains, water courses or the soil. |
|---------------------------|---|--|
| | | Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities. |

6.3 Methods and material for containment and cleaning up

| Methods for cleaning up | : | Use mechanical handling equipment. |
|-----------------------------|---|------------------------------------|
| methodie i er eredining dip | - | |



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| | | Pick up and tr | ansfer to properly labelled containers. |
| | | Keep in suitat | ble, closed containers for disposal. |
| | ence to other sections nal protection see section | on 8. | |
| SECTIO | N 7: Handling and st | orage | |
| | utions for safe handlir e on safe handling | : Avoid creating Routine house dusts do not a Avoid formati Do not breath Avoid contact For personal | ekeeping should be instituted to ensure that accumulate on surfaces. on of respirable particles. e vapours/dust. : with skin and eyes. protection see section 8. ng and drinking should be prohibited in the |
| | e on protection against nd explosion | Dispose of rir regulations. | ures for preventive fire protection. |
| | | Avoid dust fo | rmation. |
| Hygie | ene measures | hands before from food and When using d | strial hygiene practice. Do not smoke. Wash breaks and at the end of workday. Keep away d drink. Keep away from tobacco products. o not eat or drink. When using do not smoke. before breaks and at the end of workday. |
| 7.2 Condi | tions for safe storage, | including any inc | ompatibilities |
| • | irements for storage and containers | | allations / working materials must comply with ical safety standards. |
| | | store near co closed in a co | om sources of ignition - No smoking. Do not mbustible materials. Keep containers tightly ool, well-ventilated place. To maintain product t store in heat or direct sunlight. |
| | | place. Electric | er tightly closed in a dry and well-ventilated cal installations / working materials must comply nological safety standards. |
| | er information on ge conditions | : Protect from I | numidity and water. |
| Advid | ce on common storage | : Keep awav fr | om oxidizing agents, strongly alkaline and |



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| | | | ••• | terials in order to avoid exothermic reactions. ether with oxidizing and self-igniting products. |
| Dam | pness | : | Keep in a dry, co | ol and well-ventilated place. |
| Further information on: Keep in a dry place.storage stabilityNo decomposition if stored and applied as d | | | | |
| | | | | |

7.3 Specific end use(s)

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

| Components | CAS-No. | Value type (Form of exposure) | Control parameters | Basis |
|--|--|-------------------------------|-----------------------|---------|
| Copper | 7440-50-8 | TWA (Fumes) | 0.2 mg/m3 (Copper) | GB EH40 |
| | | TWA (Dusts and mists) | 1 mg/m3 (Copper) | GB EH40 |
| | | STEL (Dusts and mists) | 2 mg/m3 (Copper) | GB EH40 |
| zinc powder — zinc dust (stabilised) | 7440-66-6 | TWA (Inhalable) | 10 mg/m3 | GB EH40 |
| | | TWA (Respirable fraction) | 4 mg/m3 | GB EH40 |
| silicon dioxide | 7631-86-9 | TWA (inhalable dust) | 6 mg/m3 (Silica) | GB EH40 |
| | inhalable dust are those fractions of airborne dust which will be collected when sampling is undertaken in accordance with the methods described in MDHS14/4 General methods for sampling and gravimetric analysis or respirable, thoracic and inhalable aerosols., The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m-3 8-hour TWA of inhalable dust or 4 mg.m-3 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed to dust above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limits., Most industrial dusts contain particles of a wide range of sizes. The behaviour, deposition and fate of any particular particle after entry into the human respiratory system, and the body response that it elicits, depend on the nature and size of the particle. HSE distinguishes two size fractions for limit-setting purposes termed 'inhalable' and 'respirable'., Inhalable dust approximates to the fraction of airborne material that enters the nose and mouth during breathing and is therefore available for deposition in the respiratory tract. Respirable dust approximates to the fraction that penetrates to the gas exchange region of the lung. Fuller | | | |

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006



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| | s | ontain components that hould be complied with. figure three times the lo | Where no speci | fic short-term expos | ure limit is listed, |
| | | TWA (Res dust) | pirable 2.4 mg (Silica) | | GB EH40 |
| | ir w M re s c c ir a le m p p re d a m d c s | urther information: For the halable dust are those to halable dust are those to hen sampling is undertated to the sampling is undertated to the sample, thoracic and in ubstance hazardous to the oncentration in air equal halable dust or 4 mg.m ny dust will be subject to evels. Some dusts have nust comply with the appearticles of a wide range articular particle after erresponse that it elicits, de istinguishes two size frand 'respirable'., Inhalable haterial that enters the notaterial that enters the notaterial that enters the notaterial that enters the notaterial components that hould be complied with. figure three times the located of the same the state to the same the state to the same the state to the same the same the same the same the state to the same t | ractions of airbo ken in accordan ods for sampling halable aerosols health includes d to or greater tha 3 8-hour TWA o been assigned s ropriate limits., N of sizes. The bel try into the huma pend on the nature ctions for limit-so a dust approxima- base and mouth d the respiratory to ates to the gas e ry material are g have their own a | rne dust which will be ce with the methods g and gravimetric and s., The COSHH defin ust of any kind when n 10 mg.m-3 8-hour f respirable dust. This ble are exposed to du pecific WELs and ex Most industrial dusts naviour, deposition a un respiratory system are and size of the p etting purposes term ates to the fraction of uring breathing and rract. Respirable dus xchange region of the iven in MDHS14/4., V ssigned WEL, all the fic short-term exposed | e collected described in alysis or nition of a present at a TWA of s means that ust above these posure to these contain and fate of any n, and the body article. HSE ed 'inhalable' f airborne is therefore t approximates ne lung. Fuller Where dusts e relevant limits ure limit is listed, |

| Substance name | End Use | Exposure routes | Potential health effects | Value |
|---|-----------|-----------------|-------------------------------|-------------|
| Copper | Workers | Skin contact | Long-term systemic effects | 137 mg/kg |
| | Workers | Skin contact | Acute systemic effects | 273 mg/kg |
| | Workers | Inhalation | Long-term systemic effects | 20 mg/m3 |
| | Consumers | Inhalation | Long-term local effects | 1 mg/m3 |
| | Consumers | Inhalation | Acute local effects | 1 mg/m3 |
| | Consumers | Skin contact | Long-term systemic effects | 137 mg/kg |
| | Consumers | Skin contact | Acute systemic effects | 273 mg/kg |
| | Consumers | Ingestion | Long-term systemic effects | 0.041 mg/kg |
| zinc powder — zinc dust (stabilised) | Workers | Inhalation | Long-term systemic effects | 5 mg/m3 |
| | Workers | Skin contact | Long-term systemic | 83 mg/kg |

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STANDART RESIST ROTOFLEX Brillant Rich Gold Bronze Powder

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| | | | 1 | effects | | 1 |
| | | Consumers | Inhalation | Long-term sys effects | temic | 2.5 mg/m3 |
| | | Consumers | Skin cont | act Long-term sys effects | temic | 83 mg/kg |
| | | Consumers | Ingestion | Long-term sys effects | temic | 0.83 mg/kg |
| silico | on dioxide | Workers | Inhalation | Long-term sys effects | temic | 4 mg/m3 |

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

| Substance name | Environmental Compartment | Value |
|---|---------------------------|-------------|
| Copper | Fresh water | 0.0078 mg/l |
| | Marine water | 0.0052 mg/l |
| | STP | 0.230 mg/l |
| | Fresh water sediment | 87 mg/kg |
| | Marine sediment | 676 mg/kg |
| | Soil | 65 mg/kg |
| zinc powder — zinc dust (stabilised) | Fresh water | 0.0206 mg/l |
| | Marine water | 0.0061 mg/l |
| | STP | 0.100 mg/l |
| | Fresh water sediment | 235.6 mg/kg |
| | Marine sediment | 121 mg/kg |
| | Soil | 35.6 mg/kg |

8.2 Exposure controls

| Personal protective equipment | | | | | |
|-------------------------------|---|--|--|--|--|
| Eye/face protection : | Safety glasses Wear face-shield and protective suit for abnormal processing problems. | | | | |
| Hand protection | | | | | |
| Material : | Leather | | | | |
| Remarks : | Leather gloves The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. The exact break through time can be obtained from the protective glove producer and this has to be observed. Recommended preventive skin protection The suitability for a specific workplace should be discussed with the producers of the protective gloves. | | | | |
| Skin and body protection : | Long sleeved clothing Safety shoes Dust impervious protective suit Choose body protection according to the amount and concentration of the dangerous substance at the work place. | | | | |
| Respiratory protection : | Use suitable breathing protection if workplace concentration | | | | |



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| | | requires. Respirator with P1 filter | n a dust filter |

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| Physical state | : | powder |
|---|---|---|
| Colour | : | gold |
| Odour | : | odourless |
| Odour Threshold | : | No data available |
| Melting point/freezing point | : | > 900 °C |
| Boiling point/boiling range | : | No data available |
| Flammability | : | Combustible Solids |
| Upper explosion limit / Upper flammability limit | : | No data available |
| Lower explosion limit / Lower flammability limit | : | No data available |
| Flash point | : | No data available |
| Auto-ignition temperature | : | Not relevant |
| Decomposition temperature | : | No data available |
| рН | : | substance/mixture is non-soluble (in water) |
| Viscosity, kinematic | : | No data available |
| Solubility(ies) Water solubility Solubility in other solvents | : | insoluble No data available |
| Partition coefficient: n- octanol/water | : | No data available |
| Vapour pressure | : | No data available |
| Relative density | : | No data available |
| Density | : | 8 - 9 g/cm3 |
| | | |



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| | density tive vapour density | : | ca. 0.55 g/cm3 No data available | 9 |
| | cle characteristics article Size Distribution | : | | |
| Flam | information mable solids urning number | : | 1 | |
| Self | ignition | : | No data available | 9 |
| Misc | ibility with water | : | immiscible | |

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : Stable under recommended storage conditions. No hazards to be specially mentioned. No decomposition if stored and applied as directed.

Dust may form explosive mixture in air.

10.4 Conditions to avoid

Conditions to avoid : No data available

10.5 Incompatible materials

10.6 Hazardous decomposition products

This information is not available.

SECTION 11: Toxicological information

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

Acute toxicity

Harmful if swallowed.

Product:

A member of **C ALTANA**



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| | Acute | oral toxicity | : Acute toxicity Method: Calcu | | imate: 753.3 mg/kg on method | | | |
| | Components: | | | | | | | |
| | Сорре | er: | | | | | | |
| | | oral toxicity | : | Assessment: The single ingestion. | component/mixture is moderately toxic after | | | |
| | zinc p | owder — zinc dust (s | tabi | lised): | | | | |
| | - | oral toxicity | : | | g/kg | | | |
| | Acute | inhalation toxicity | : | LC50 (Rat): 5.41 Exposure time: 4 Test atmosphere: | h | | | |
| | Skin corrosion/irritation | | | | | | | |
| | Not classified based on available information. | | | | | | | |
| | <u>Produ</u> | <u>ct:</u> | | | | | | |
| | Remar | ks | : | May cause skin ir | ritation in susceptible persons. | | | |
| | <u>Comp</u> | onents: | | | | | | |
| | Сорре | er: | | | | | | |
| | Remar | ks | : | May cause skin ir | ritation in susceptible persons. | | | |
| | Serious eye damage/eye irritation | | | | | | | |
| | Cause | s serious eye irritation. | | | | | | |
| | <u>Produ</u> | <u>ct:</u> | | | | | | |
| | Remar | ks | : | Eye irritation | | | | |
| | <u>Comp</u> | onents: | | | | | | |
| | Сорре | er: | | | | | | |
| | Result | | : | Eye irritation | | | | |
| | Respir | ratory or skin sensitis | atio | on | | | | |
| | | ensitisation assified based on availa | able | information. | | | | |
| | - | ratory sensitisation assified based on availa | able | information. | | | | |



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| Germ cell mutagenicity Not classified based on available information. | | | | | | |
| Carcinogenicity Not classified based on available information. | | | | | | |
| Reproductive toxicity Not classified based on available information. | | | | | | |
| STOT - single exposure Not classified based on available information. | | | | | | |
| STOT - repeated exposure Not classified based on available information. | | | | | | |
| Aspiration toxicity Not classified based on available information. | | | | | | |
| mation on other haz | ards | | | | | |
| er information | | | | | | |
| <u>ıct:</u> rks | : No data availab | ble | | | | |
| oonents: | | | | | | |
| er: | · No data availah | | | | | |
| - | | | | | | |
| bowder — zinc dust rks | (stabilised): : No data availab | | | | | |
| | 05.06.2023 cell mutagenicity assified based on av nogenicity assified based on av oductive toxicity assified based on av - single exposure assified based on av - repeated exposur assified based on av - repeated exposur assified based on av mation toxicity assified based on av mation on other haz er information <u>act:</u> rks | 05.06.2023 10200023148 cell mutagenicity assified based on available information. nogenicity assified based on available information. oductive toxicity assified based on available information single exposure assified based on available information repeated exposure - rep | | | | |

SECTION 12: Ecological information

| 12.1 Toxicity | | |
|---|---|--|
| Components: | | |
| Copper: M-Factor (Short-term (acute) aquatic hazard) M-Factor (Long-term (chronic) aquatic hazard) | | 10 10 |
| Ecotoxicology Assessment Acute aquatic toxicity Chronic aquatic toxicity | : | Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. |

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|---|---|-----------------------------|--|
| ziı | nc powder — zinc dust (st | abilised): | |
| Ecotoxicology Assessment Acute aquatic toxicity : Very toxic to aquatic life. | | | uatic life. |
| Ch | nronic aquatic toxicity | : Very toxic to aq | uatic life with long lasting effects. |
| | ersistence and degradabil | ity | |
| | o data available | | |
| | obility in soil o data available | | |
| 12.5 Re | esults of PBT and vPvB a | ssessment | |
| | oduct: ssessment | to be either pers | mixture contains no components considered istent, bioaccumulative and toxic (PBT), or and very bioaccumulative (vPvB) at levels of |
| | ndocrine disrupting prope | erties | |
| 12.7 Ot | ther adverse effects | | |
| Ac | oduct: Iditional ecological formation | unprofessional h | al hazard cannot be excluded in the event of nandling or disposal. uatic life with long lasting effects. |
| <u>Cc</u> | omponents: | | |
| Ac | opper: dditional ecological formation | unprofessional ł | al hazard cannot be excluded in the event of nandling or disposal. uatic life with long lasting effects. |
| ziı | nc powder — zinc dust (st | abilised): | |
| | ditional ecological ormation | unprofessional h | al hazard cannot be excluded in the event of nandling or disposal. uatic life with long lasting effects. |



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SECTION 13: Disposal considerations

| European Waste Catalogue European Waste Catalogue | : | 12 01 04 - non-ferrous metal dust and particles 10 03 21 - other particulates and dust (including ball-mill dust) containing hazardous substances |
|--|---|--|
| 13.1 Waste treatment methods | | |
| Product | : | The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company. In accordance with local and national regulations. |
| Contaminated packaging | : | Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. In accordance with local and national regulations. |

SECTION 14: Transport information

| 14.1 UN number or ID number | | | | |
|---------------------------------|---|---|-----------------------------|--|
| ADR | : | UN 3077 | | |
| IMDG | : | UN 3077 | | |
| ΙΑΤΑ | : | UN 3077 | | |
| 14.2 UN proper shipping name | | | | |
| ADR | : | ENVIRONMENTALLY N.O.S. (Copper metal powde | HAZARDOUS SUBSTANCE, SOLID, | |
| IMDG | : | ENVIRONMENTALLY N.O.S. (Copper metal powde | HAZARDOUS SUBSTANCE, SOLID, | |
| ΙΑΤΑ | : | Environmentally hazardous substance, solid, n.o.s. (Copper metal powder) | | |
| 14.3 Transport hazard class(es) | | | | |
| | | Class | Subsidiary risks | |
| ADR | : | 9 | | |
| IMDG | : | 9 | | |
| ΙΑΤΑ | : | 9 | | |



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14.4 Packing group

| ADR Packing grou Classificatior Hazard Ident Labels Tunnel restric | ification Number : | III M7 90 9 (-) |
|---|---------------------------------------|--|
| IMDG Packing grou Labels EmS Code Remarks | ip : : : | III 9 F-A, S-F IMDG Code segregation group 7 - Heavy metals and their salts |
| IATA (Cargo Packing instr aircraft) Packing instr Packing grou Labels | uction (cargo : uction (LQ) : | 956 Y956 III 9 |
| IATA (Passe Packing instr (passenger a Packing instr Packing grou Labels | uction : ircraft) uction (LQ) : | 956 Y956 III 9 |
| 14.5 Environmen | tal hazards | |
| ADR Environmenta | ally hazardous : | yes |
| IMDG Marine pollut | ant : | yes |
| 14.6 Special prec | autions for user | |
| Remarks | : | For single packagings <=5L / 5 kg, or combination packagings containing inner packagings <= 5L / 5 kg net per inner packaging, SV375 ADR, 2.10.2.7 IMDG-Code, A197 IATA-DGR may be applied. |

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.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.



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SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

| REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) | : | Not applicable |
|--|---|----------------|
| UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation | : | Not applicable |
| The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain) | : | Not applicable |
| Regulation (EC) No 1005/2009 on substances that deplete the ozone layer | : | Not applicable |
| UK REACH List of substances subject to authorisation (Annex XIV) | : | Not applicable |

15.2 Chemical safety assessment

No data available

SECTION 16: Other information

| Full text of H-Statements | | | | |
|----------------------------------|---|--|--|--|
| H302 | : | Harmful if swallowed. | | |
| H319 | : | Causes serious eye irritation. | | |
| H400 | : | Very toxic to aquatic life. | | |
| H410 | : | Very toxic to aquatic life with long lasting effects. | | |
| Full text of other abbreviations | | | | |
| Acute Tox. | : | Acute toxicity | | |
| Aquatic Acute | : | Short-term (acute) aquatic hazard | | |
| Aquatic Chronic | : | Long-term (chronic) aquatic hazard | | |
| Eye Irrit. | : | Eye irritation | | |
| GB EH40 | : | UK. EH40 WEL - Workplace Exposure Limits | | |
| GB EH40 / TWA | : | Long-term exposure limit (8-hour TWA reference period) | | |
| GB EH40 / STEL | : | Short-term exposure limit (15-minute reference period) | | |

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AllC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response;



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EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx -Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA -International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development: OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance: PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID -Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

| Classification of t | he mixture: | Classification procedure: |
|---------------------|-------------|---------------------------|
| Acute Tox. 4 | H302 | Calculation method |
| Eye Irrit. 2 | H319 | Calculation method |
| Aquatic Acute 1 | H400 | Calculation method |
| Aquatic Chronic 1 | H410 | Calculation method |

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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