

Rhodium Recycling Powder JE632

Revision date: 14.02.2020

Product code: 59

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

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1.2. Relevant identified uses of the substance or mixture and uses advised against**Use of the substance/mixture**

Sanitation agent

1.3. Details of the supplier of the safety data sheet

Company name: Jentner Plating Technology GmbH
 Street: Johann-Staib-Strasse 2
 Place: D-75179 Pforzheim
 Telephone: +49 (0)7231 418094 0 Telefax: +49 (0)7231 418094 77
 e-mail: info@jentner.de
 Contact person: Department of Chemistry
 Internet: www.jentner.de
 Responsible Department: Poison Information Center of the University of Freiburg.

1.4. Emergency telephone number: 0049 (0)761 19240 - 24 h german and english**SECTION 2: Hazards identification****2.2. Label elements**

Regulation (EC) No. 1272/2008

Special labelling of certain mixtures

EUH210 Safety data sheet available on request.

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients**3.2. Mixtures****Hazardous components**

| CAS No | Chemical name | | | Quantity |
|------------|-----------------------------|----------|----------|----------|
| | EC No | Index No | REACH No | |
| | GHS Classification | | | |
| 14808-60-7 | Quartz, (SiO ₂) | | | 5 % |
| | 238-878-4 | | | |

Full text of H and EUH statements: see section 16.

SECTION 4: First aid measures**4.1. Description of first aid measures****After inhalation**

Provide fresh air. Seek medical attention if problems persist.

After contact with skin

Wash with plenty of water. Take off contaminated clothing and wash it before reuse. In case of skin irritation, seek medical treatment.

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After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. If product gets into the eye, keep eyelid open and rinse immediately with large quantities of water, for at least 5 minutes. Subsequently consult an ophthalmologist.

After ingestion

Rinse mouth immediately and drink plenty of water.

4.2. Most important symptoms and effects, both acute and delayed

No information available.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media

none

5.2. Special hazards arising from the substance or mixture

Non-flammable. Silicon dioxide-smoke

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Use appropriate respiratory protection.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Wear personal protection equipment. Keep away from unprotected people.

Avoid dust formation.

Do not breathe dust.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Avoid dust formation.

Ensure suitable suction / aeration at the workplace or on the machines.

Advice on protection against fire and explosion

No special measures are necessary.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Keep container tightly closed. Observe in addition any national regulations!

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Hints on joint storage

No special measures are necessary.

Further information on storage conditions

Keep container tightly closed.
Store in a dry place.

7.3. Specific end use(s)

Sanitation agent

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Additional advice on limit values**

To date, no national critical limit values exist.

8.2. Exposure controls**Appropriate engineering controls**

General dust limit, respirable fraction: (E-dust): 10 mg/m³(Annual average)
respirable fraction (A-dust): 3 mg/m³

Protective and hygiene measures

Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink. Do not breathe dust.

Avoid contact with eyes.

When using do not eat, drink, smoke, sniff.

Eye/face protection

Wear eye protection/face protection. Tightly sealed safety glasses.

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Wear suitable gloves.

The required protective gloves have to be specified by the glove material and the penetration time of the glove material depending on strength and duration of dermal exposition.

Protective gloves have to be replaced at the first sign of deterioration.

Skin protection

Wear suitable protective clothing.

Respiratory protection

In case of inadequate ventilation wear respiratory protection. Dust mask when dust

In permanent certain compliance with the occupational exposure limit value and/or other occupational exposure limits no special measures required.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

| | |
|-----------------|------------|
| Physical state: | Powder |
| Colour: | light grey |
| Odour: | odourless |

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pH-Value (at 20 °C): (10g/l) 5-9,5

Changes in the physical state

Melting point: not determined

Flammability

Solid: not determined

Gas: not applicable

Lower explosion limits:

Upper explosion limits:

Auto-ignition temperature

Solid: not determined

Gas: not applicable

Decomposition temperature: not determined

Oxidizing properties

Not oxidising.

Density (at 20 °C): 4 g/cm³Water solubility:
(at 20 °C) ca. 1,6 g/L**Solubility in other solvents**

not determined

Partition coefficient: not determined

Vapour density: not determined

Evaporation rate: not determined

9.2. Other information

Solid content: not determined

SECTION 10: Stability and reactivity**10.1. Reactivity**

No decomposition if used as directed.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No dangerous decomposition products known.

10.4. Conditions to avoid

none

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Irritation and corrosivity**

On the skin: A mechanical irritation is possible due to the form of the product.

On the eye: Weak, reversible irritant effect.

A mechanical irritation is possible due to the form of the product.

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Sensitising effects

Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.

Carcinogenic/mutagenic/toxic effects for reproduction

Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.

STOT-single exposure

Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.

STOT-repeated exposure

Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.

Aspiration hazard

Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.

Additional information on tests

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP]. Sub acute and chronic toxicity:

Quartz as in lung moving fine dust has been classified by the Senate Commission of the DFG as clearly carcinogenic. Doubt as to this rating this was taken over by the AGS, nor by the EU. Reasons of principle interest inhalation of dust should be avoided in all activities through appropriate measures.

Additional toxicological information: Proper handling and intended use, according to our experience and us present information; the product causes no health effects.

SECTION 12: Ecological information**12.1. Toxicity**

The product is not: Ecotoxic.

12.2. Persistence and degradability

The product has not been tested.

12.3. Bioaccumulative potential

No information available.

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

not applicable

12.6. Other adverse effects

No information available.

Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation. Dispose of waste according to applicable legislation.

Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself. Dispose of waste according to applicable legislation.

SECTION 14: Transport information**Land transport (ADR/RID)****14.2. UN proper shipping name:**

Not a hazardous material with respect to these transportation regulations.

Inland waterways transport (ADN)

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14.2. UN proper shipping name: Not a hazardous material with respect to these transportation regulations.**Marine transport (IMDG)****14.2. UN proper shipping name:** Not a hazardous material with respect to these transportation regulations.**Air transport (ICAO-TI/IATA-DGR)****14.2. UN proper shipping name:** Not a hazardous material with respect to these transportation regulations.**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

No information available.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not applicable

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulatory information**

Water hazard class (D): 1 - slightly hazardous to water

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information**Abbreviations and acronyms**ADR: Accord européen sur le transport des marchandises dangereuses par Route
(European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

Relevant H and EUH statements (number and full text)

EUH210 Safety data sheet available on request.

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations. This information is based on the present state of knowledge, but they do not constitute a guarantee of product properties and establishes no contract legal rights. Existing laws and regulations are followed by the recipient of our products on their own responsibility. This MSDS contains only safety-related information and does not replace any information or product specifications.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)