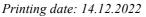
Safety data sheet

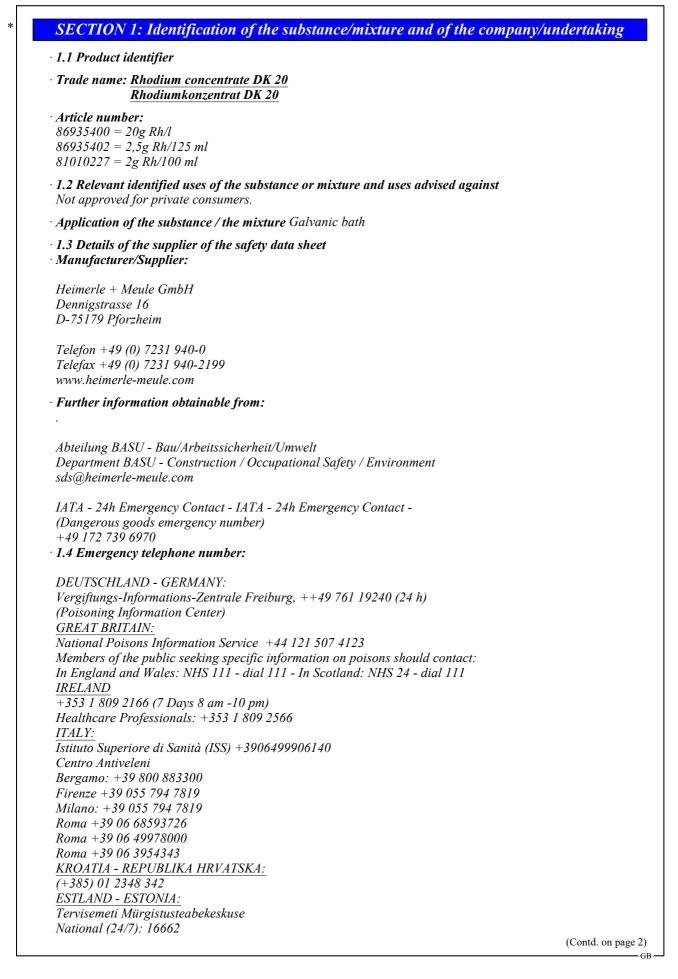
according to 1907/2006/EC, Article 31



Version number 7 (replaces version 6)



Revision: 21.10.2022





Revision: 21.10.2022

Printing date: 14.12.2022

Version number 7 (replaces version 6)

Trade name: Rhodium concentrate DK 20 Rhodiumkonzentrat DK 20

(Contd. of page 1)

(+372) 7943 794 <u>LETTLAND - LATVIA:</u> Valsts Toksikoloģijas centrs, Saindēšanās un zāļu informācijas centrs, (24h) 112 (24h) +371 67042473 <u>LITAUEN - LIETUVOS RESPUBLIKA:</u> Poison Information Bureau (24/7), Tel.: +8 5 236 20 52 Apsinuodijimų informacijos biuras



· 2.1 Classification of the substance or mixture · Classification according to Regulation (EC) No 1272/2008

health hazard

Muta. 2

C 🛃 corrosion

Skin Corr. 1A H314 Causes severe skin burns and eye damage.

*Eye Dam. 1* H318 Causes serious eye damage.

· 2.2 Label elements

### · Labelling according to Regulation (EC) No 1272/2008

*The product is classified and labelled according to the GB CLP regulation. • Hazard pictograms* 

H341 Suspected of causing genetic defects.



· Signal word Danger

Hazard-determining components of labelling: sulphuric acid Dirhodiumtrisulphate
Hazard statements H314 Causes severe skin burns and eye damage. H341 Suspected of causing genetic defects.
Precautionary statements P260 Do not breathe dusts or mists. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER/doctor.

(Contd. on page 3)

GB



Revision: 21.10.2022

#### Printing date: 14.12.2022

*Version number 7 (replaces version 6)* 

### Trade name: Rhodium concentrate DK 20 Rhodiumkonzentrat DK 20

|      | (Contd. of page 2)  |
|------|---|
| P321 | Specific treatment (see on this label).   |
| P405 | Store locked up.  |
| P501 | Dispose of contents/container in accordance with local/regional/national/international regulations. |

· 2.3 Other hazards

· Results of PBT and vPvB assessment

- **PBT:** Not applicable.
- · vPvB: Not applicable.

## **SECTION 3: Composition/information on ingredients**

· 3.2 Mixtures

· Description: Mixture of substances listed below with nonhazardous additions.

| · Dangerous components / Inf  | formation on ingredients:  |        |
|-------------------------------|--|--------|
| CAS: 7664-93-9                | sulphuric acid; sulfuric acid                                    | 25-50% |
| EINECS: 231-639-5             | Met. Corr.1, H290; Skin Corr. 1A, H314                           |        |
| Index number: 016-020-00-8    | Specific concentration limits: Skin Corr. 1A; H314: $C \ge 15$ % |        |
| Reg.nr.: 01-2119453338-20     | <i>Skin Irrit. 2; H315: 5 % ≤ C &lt; 15 %</i>                    |        |
|                               | <i>Eye Irrit. 2; H319: 5 % ≤ C &lt; 15 %</i>                     |        |
| CAS: 10489-46-0               | Dirhodiumtrisulphate   | 7–10%  |
| EINECS: 234-014-5             | <b>W</b> uta. 2, H341  |        |
|                               | in Met. Corr.1, H290; Skin Corr. 1A, H314; Eye Dam. 1, H318      |        |
| • Additional information: For | the wording of the listed hazard phrases refer to section 16.    |        |

## **SECTION 4: First aid measures**

• 4.1 Description of first aid measures

• General information:

Immediately remove any clothing soiled by the product.

Personal protection for the First Aider.

Take affected persons out of danger area and lay down.

Involve doctor immediately after a accident or unwell

- After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- After skin contact:

Immediately wash with water and soap and rinse thoroughly.

Immediately rinse with water.

If skin irritation continues, consult a doctor.

• *After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.* 

• After swallowing:

Drink plenty of water and provide fresh air. Call for a doctor immediately.

A person vomiting while laying on their back should be turned onto their side.

Rinse out mouth and then drink plenty of water.

• 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

· Hazards Danger of gastric perforation.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

# **SECTION 5: Firefighting measures**

• 5.1 Extinguishing media

• Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

(Contd. on page 4)

GB



Revision: 21.10.2022

(Contd. of page 3)

Printing date: 14.12.2022

Version number 7 (replaces version 6)

### Trade name: Rhodium concentrate DK 20 Rhodiumkonzentrat DK 20

- 5.2 Special hazards arising from the substance or mixture Under certain fire conditions, traces of other toxic gases cannot be excluded, e.g.: Sulphur dioxide (SO2)
- 5.3 Advice for firefighters
- Protective equipment:



Wear self-contained respiratory protective device.

# **SECTION 6:** Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures Mount respiratory protective device. Wear protective equipment. Keep unprotected persons away. Use respiratory protective device against the effects of fumes/dust/aerosol. Only handle and refill product in closed systems. · 6.2 Environmental precautions: Dilute with plenty of water. Do not allow to enter sewers/ surface or ground water. • 6.3 Methods and material for containment and cleaning up: Use neutralising agent. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation. · 6.4 Reference to other sections See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

## **SECTION 7: Handling and storage**

· 7.1 Precautions for safe handling

When diluting always pour product into water and not vice versa. Keep receptacles tightly sealed. Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. he usual precautionary measures are to be adhered to when handling chemicals. Prevent formation of aerosols. Wear suitable respiratory protective device when decanting larger quantities without extractor facilities. Do not dry clean dust covered objects and floors. Wash thoroughly with plenty of water.

· Information about fire - and explosion protection: Keep respiratory protective device available.

- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:

• Requirements to be met by storerooms and receptacles:

*Observe official regulations on storing packagings*. *Observe official regulations on storing packagings*.

Prevent any seepage into the ground.

· Information about storage in one common storage facility:

Store away from foodstuffs.

(Contd. on page 5)

GB



Revision: 21.10.2022

#### Printing date: 14.12.2022

*Version number 7 (replaces version 6)* 

### Trade name: Rhodium concentrate DK 20 Rhodiumkonzentrat DK 20

(Contd. of page 4)

| · Furthe | r information | about storage | conditions: |
|----------|---------------|---------------|-------------|
|          |               |               |             |

Keep container tightly sealed.

Store under lock and key and out of the reach of children.

• Storage class: 8 B

• 7.3 Specific end use(s) No further relevant information available.

# **SECTION 8: Exposure controls/personal protection**

| CAS: 7664-93-9 sulphuric   | ies that require monitoring at the workplace:   |
|----------------------------|---|
| WEL (Great Britain)        | Long-term value: 0.05* mg/m <sup>3</sup>  |
|                            | *mist: defined as thoracic fraction   |
| IOELV (European Union)     | Long-term value: 0.05 mg/m <sup>3</sup>   |
| AGW (Germany)              | Long-term value: 0.1 E mg/m <sup>3</sup><br>1(I);DFG, EU, Y   |
| Regulatory information     |   |
| WEL (Great Britain): EH4   |   |
| IOELV (European Union):    |   |
| AGW (Germany): TRGS 9      |   |
| Additional information: 1  | he lists valid during the making were used as basis.  |
| 8.2 Exposure controls      |   |
| Appropriate engineering of | controls No further data; see item 7.   |
|                            | sures, such as personal protective equipment  |
| General protective and hy  |   |
|                            | neasures are to be adhered to when handling chemicals.  |
| Keep away from foodstuffs  |   |
|                            | iled and contaminated clothing  |
| Wash hands before breaks   |   |
| Do not inhale gases / fume |   |
| Avoid contact with the eye |   |
| Avoid contact with the eye |   |
| According to EC Directive  | 89/686/EEC  |
| Respiratory protection:    | 11  |
| Not necessary if room is w |   |
|                            | r low pollution use respiratory filter device. In case of intensive or longer exposur   |
|                            | ory protective device.<br>ovide protection for a short period of time only. They should only be used i<br>f a small amount of the substance has spilled out or in order to fight spillages an |
| fire.                      |   |
| according EN 14387         |   |
| according to EN 143        |   |
|                            | e for short term use: Filter P2   |
| Hand protection            |   |
| Protective g               | gloves  |
| according to EN 374        |   |
|                            | luce the wearing of gloves to the required minimum.   |

To avoid skin problems reduce the wearing of gloves to the required minimum. Only use chemical-protective gloves with CE-labelling of category III.

(Contd. on page 6)

\_\_\_\_\_ GB

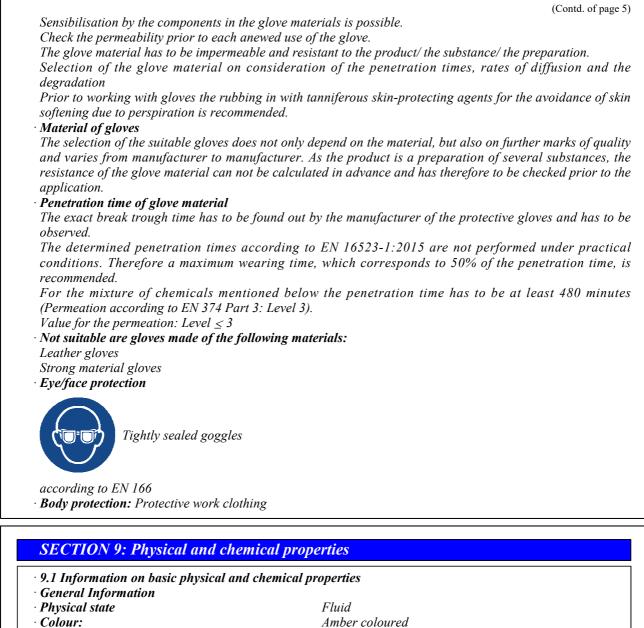


Revision: 21.10.2022

Printing date: 14.12.2022

*Version number 7 (replaces version 6)* 

### Trade name: Rhodium concentrate DK 20 Rhodiumkonzentrat DK 20



|  | 1 11111          |
|--|------------------|
| · Colour:  | Amber coloured   |
| · Odour:   | Product specific |
| · Odour threshold:                                   | Not determined.  |
| · Melting point/freezing point:                      | Undetermined.    |
| · Boiling point or initial boiling point and boiling |                  |
| range  | 100°C (212°F)    |
| · Flammability                                       | Not applicable.  |
| Lower and upper explosion limit                      |                  |
| · Lower:   | Not determined.  |
| · Upper:   | Not determined.  |
| · Flash point:                                       | Not applicable.  |
| Decomposition temperature:                           | Not determined.  |
| · pH at 20°C (68°F)                                  | 1                |
| · Viscosity:   |                  |
| Kinematic viscosity                                  | Not determined.  |
|  |                  |

(Contd. on page 7)

GB

Printing date: 14.12.2022

*Version number 7 (replaces version 6)* 

Page 7/11

Revision: 21.10.2022

## Trade name: Rhodium concentrate DK 20 Rhodiumkonzentrat DK 20

|   | (Contd. of page                               |
|---|---|
| Dynamic:  | Not determined.                               |
| Solubility  |   |
| water:  | Fully miscible.                               |
| Partition coefficient n-octanol/water (log value) | Not determined.                               |
| Vapour pressure:                                  | Not determined.                               |
| Density and/or relative density                   |   |
| Density:  | Not determined.                               |
| Relative density                                  | Not determined.                               |
| Vapour density                                    | Not determined.                               |
| 9.2 Other information                             |   |
| Appearance:                                       |   |
| Form:   | Fluid   |
| Important information on protection of health an  | d   |
| environment, and on safety.                       |   |
| Auto-ignition temperature:                        | Product is not selfigniting.                  |
| Explosive properties:                             | Product does not present an explosion hazard. |
| Change in condition                               |   |
| Evaporation rate                                  | Not determined.                               |
| Information with regard to physical hazard classe | 'S  |
| Explosives  | Void  |
| Flammable gases                                   | Void  |
| Aerosols  | Void  |
| Oxidising gases                                   | Void  |
| Gases under pressure                              | Void  |
| Flammable liquids                                 | Void  |
| Flammable solids                                  | Void  |
| Self-reactive substances and mixtures             | Void  |
| Pyrophoric liquids                                | Void  |
| Pyrophoric solids                                 | Void  |
| Self-heating substances and mixtures              | Void  |
| Substances and mixtures, which emit flammable     |   |
| gases in contact with water                       | Void  |
| Oxidising liquids                                 | Void  |
| Oxidising solids                                  | Void  |
| Organic peroxides                                 | Void  |
| Corrosive to metals                               | Void  |
| Desensitised explosives                           | Void  |

## **SECTION 10: Stability and reactivity**

· 10.1 Reactivity No further relevant information available.

- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · 10.3 Possibility of hazardous reactions
- Reacts with light alloys to form hydrogen.
- Reacts with acids, alkalis and oxidising agents.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: No dangerous decomposition products known.

(Contd. on page 8)

GB

Page 8/11

Revision: 21.10.2022

*Printing date: 14.12.2022* 

*Version number 7 (replaces version 6)* 

Trade name: Rhodium concentrate DK 20 Rhodiumkonzentrat DK 20

(Contd. of page 7)

## **SECTION 11: Toxicological information**

- · 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- Skin corrosion/irritation Causes severe skin burns and eye damage.
- Serious eye damage/irritation Causes serious eye damage.
- Germ cell mutagenicity Suspected of causing genetic defects.
- 11.2 Information on other hazards

#### • Endocrine disrupting properties

None of the ingredients is listed.

## **SECTION 12: Ecological information**

#### · 12.1 Toxicity

· Aquatic toxicity: No further relevant information available.

- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- · 12.5 Results of PBT and vPvB assessment Not applicable.
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · 12.6 Endocrine disrupting properties

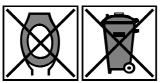
The product does not contain substances with endocrine disrupting properties.

- · 12.7 Other adverse effects
- Additional ecological information:
- · General notes: Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

## **SECTION 13: Disposal considerations**

### · 13.1 Waste treatment methods

· Recommendation



Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Contact manufacturer for recycling information.

• Waste disposal key:

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

- · Uncleaned packaging:
- · Recommendation:

Disposal must be made according to official regulations.

Packaging which is uncleaned or soiled with product remains is to be treated like the product itself Packaging free of product remains is to be supplied refuse for recycling. Only if no adequate collecting system is available, they may be disposed of through the domestic rubbish

• Recommended cleansing agents: Water, if necessary together with cleansing agents.

(Contd. on page 9)

GB

Printing date: 14.12.2022

\*

Version number 7 (replaces version 6)

Page 9/11

Revision: 21.10.2022

(Contd. of page 8)

Trade name: Rhodium concentrate DK 20 Rhodiumkonzentrat DK 20

| 14.1 UN number or ID number                      |   |
|--|---|
| ADR, IMDG, IATA                                  | UN3264  |
| 14.2 UN proper shipping name<br>ADR              | UN3264 CORROSIVE LIQUID, ACIDIC, INORGAI<br>N.O.S. (SULPHURIC ACID, Dirhodiumtrisulphate)           |
| IMDG, IATA                                       | CORROSIVE LIQUID, ACIDIC, INORGANIC, N.(<br>(SULPHURIC ACID, Dirhodiumtrisulphate)                  |
| 14.3 Transport hazard class(es)                  |   |
| ADR, IMDG, IATA                                  |   |
| Class<br>Label                                   | 8 Corrosive substances.<br>8  |
| 14.4 Packing group<br>ADR, IMDG, IATA            | II  |
| 14.5 Environmental hazards:<br>Marine pollutant: | No  |
| 14.6 Special precautions for user                | Warning: Corrosive substances.  |
| Hazard identification number (Kemler code):      | 80<br>5 4 5 P   |
| EMS Number:                                      | F-A,S-B   |
| Segregation groups<br>Stowage Category           | (SGG1) Acids<br>B   |
| Stowage Code                                     | SW2 Clear of living quarters.   |
| 14.7 Maritime transport in bulk according to IM  |   |
| instruments                                      | Not applicable.   |
| Transport/Additional information:                |   |
| ADR  |   |
| Limited quantities (LQ)                          | 1L  |
| Excepted quantities (EQ)                         | Code: E2  |
|  | Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 500 ml |
| Transport category                               | 2   |
| IMDG   |   |
| Limited quantities (LQ)                          | 1L  |
| Excepted quantities $(EQ)$                       | Code: E2  |
|  | Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 500 ml |
| IATA   |   |



Printing date: 14.12.2022

*Version number 7 (replaces version 6)* 

Revision: 21.10.2022

## Trade name: Rhodium concentrate DK 20 Rhodiumkonzentrat DK 20

(Contd. of page 9)

| · Remarks:               | 24h emergency contact -<br>(Dangerous goods emergency number)  |
|--------------------------|--|
|                          | +49 172 739 6970   |
| · UN "Model Regulation": | UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC,<br>N . O . S . (S U L P H U R I C A C I D ,<br>DIRHODIUMTRISULPHATE), 8, II |

## **SECTION 15: Regulatory information**

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

COUNCIL DIRECTIVE 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work (fourteenth individual Directive within the meaning of Article 16(1) of Directive 89/391/EEC)

DIRECTIVE 2012/18/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 on the control of major-accident hazards involving dangerous substances, amending and subsequently repealing Council Directive 96/82/EC

#### · GADSL - Global Automotive Declarable Substance List

None of the ingredients is listed.

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I None of the ingredients is listed.

· National regulations:

· Waterhazard class: .

· Other regulations, limitations and prohibitive regulations -

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

## **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### · Reasons for revise

If necessary, this saftey data sheet can revised according to legal guidelines.

*Our current version for your reference is available on our website www.heimerle-meule.com* 

#### · Relevant phrases

H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H341 Suspected of causing genetic defects.

• Department issuing SDS:

Abteilung BASU - Bau/Arbeitssicherheit/Umwelt Department BASU - Construction / Occupational Safety / Environment

sds@heimerle-meule.com

(Contd. on page 11)



*Printing date: 14.12.2022* 

Version number 7 (replaces version 6)

Revision: 21.10.2022

## Trade name: Rhodium concentrate DK 20 Rhodiumkonzentrat DK 20

|                       | (Contd. of pa   | age |
|-----------------------|---|-----|
| Contact:              |   |     |
| Herr Thomas Kn        | h   |     |
| thomas.knuth@h        | nerle-meule.com   |     |
| sds@heimerle-m        |   |     |
| Abbreviations an      |   |     |
|                       |   |     |
|                       | cilities for handling water-polluting substances (German regulation).                         |     |
|                       | for hazardous substances (German regulation)  |     |
|                       | u transport international des marchandises dangereuses par route (European Agreement Concerni | ing |
|                       | of Dangerous Goods by Road)   |     |
|                       | aritime Code for Dangerous Goods  |     |
|                       | Transport Association   |     |
|                       | ised System of Classification and Labelling of Chemicals                                      |     |
| 1                     | entory of Existing Commercial Chemical Substances   |     |
|                       | of Notified Chemical Substances   |     |
|                       | ts Service (division of the American Chemical Society)  |     |
| PBT: Persistent, Biod |   |     |
|                       | nd very Bioaccumulative   |     |
|                       | to metals – Category 1  |     |
|                       | rosion/irritation – Category 1A   |     |
|                       | e damage/eye irritation – Category 1  |     |
|                       | agenicity – Category 2  |     |
| * Data compared       | o the previous version altered.   |     |
| -                     |   |     |