Safety data sheet according to 1907/2006/EC, Article 31



Printing date: 26.05.2020

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Version number 12

*Revision:*_____26.05.2020

Trade name: Rodium pl.bath WhiteStar® DIP, 2 g Rh/l Rhodiumbad WhiteStar® DIP, 2 g Rh/l Article number: 81012103 81020426 - 1 Liter 1.2 Relevant identified uses of the substance or mixture and uses advised against Not approved for private consumers. Application of the substance / the mixture Galvanic bath 1.3 Details of the supplier of the safety data sheet Manufacturer/Supplier: Heimerle + Meule GmbH Demitgstrasse 16 D-75179 Pforcheim Telefon +49 (0) 7231 940-0 Telefax +49 (0) 7231 940-2199 www.heimerle-meule.com 	1.1 Product identifier		
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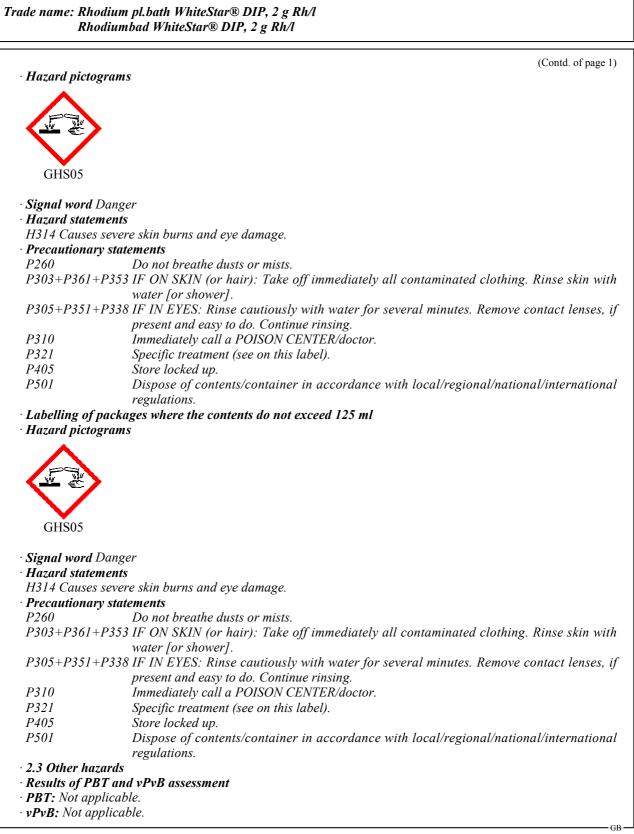


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SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterisation: Mixtures

• **Description:** Mixture of substances listed below with nonhazardous additions.

· Dangerous components / Inf	formation on ingredients:	
CAS: 7664-93-9	Sulphuric acid; Sulphuric acid 96 % chemically pure; sulfuric acid	<1%
EINECS: 231-639-5	<i>Met. Corr.1, H290; Skin Corr. 1A,</i>	
Index number: 016-020-00-8	H314	
Reg.nr.: 01-2119453338-20	Specific concentration limits: Skin Corr. 1A; H314: $C \ge 15 \%$	
	<i>Skin Irrit. 2; H315: 5 % ≤ C < 15 %</i>	
	<i>Eye Irrit. 2; H319: 5 % ≤ C < 15 %</i>	
CAS: 10489-46-0	Dirhodiumtrisulphate	<0.5%
EINECS: 234-014-5	Nin Corr. 1A, H314	
· Additional information · For	the wording of the listed hazard phrases refer to section 16	

· 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.

· 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: Use fire extinguishing methods suitable to surrounding conditions.
- For safety reasons unsuitable extinguishing agents: Water with full jet
- 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)

During heating or in case of fire poisonous gases are produced.

• 5.3 Advice for firefighters

• Protective equipment:

wear protective clothing

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Mount respiratory protective device.



Wear self-contained respiratory protective device.

Beware: Filter masks provide protection for a short period of time only. They should only be used in exceptional cases, that is if a small amount of the substance has spilled out or in order to fight spillages and fire

· Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations. Collect contaminated fire fighting water separately. It must not enter the sewage system.

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: No special measures required.
- 6.3 Methods and material for containment and cleaning up: 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

Keep receptacles tightly sealed.

Ensure good ventilation/exhaustion at the workplace.

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:

 \overline{S} tore away from foodstuffs.

- Further information about storage conditions:
- Keep container tightly sealed.

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

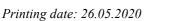
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• Storage class: 8 B

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

SECTION 8: Exposure controls/personal protection

• Additional information about design of technical facilities: No further data; see item 7.

·	8.1	Control	parameters
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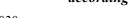
CAS: 7664-93-9 Sulphi	uric acid
	n) Long-term value: 0.05 mg/m ³
·	
AGW (Germany)	Long-term value: 0.1 E mg/m ³ 1(1);DFG, EU, Y
Regulatory information	
IOELV (European Unio	
AGW (Germany): TRGS	
Additional information	: The lists valid during the making were used as basis.
8.2 Exposure controls	
Personal protective equ	
General protective and	
	measures are to be adhered to when handling chemicals.
Keep away from foodstu	Iffs, beverages and feed.
Immediately remove all	soiled and contaminated clothing
Wash hands before brea	iks and at the end of work.
Do not inhale gases / fu	mes / aerosols.
Avoid contact with the e	yes.
Avoid contact with the e	yes and skin.
According to EC Direct	ive 89/686/EEC
Respiratory protection:	
Not necessary if room is	well-ventilated.
Use suitable respiratory	protective device only when aerosol or mist is formed.
In case of brief exposure	e or low pollution use respiratory filter device. In case of intensive or longer exposur
use self-contained respin	ratory protective device.
exceptional cases, that	provide protection for a short period of time only. They should only be used i is if a small amount of the substance has spilled out or in order to fight spillages an
fire.	
according EN 14387	
according to EN 143	
	vice for short term use: Combination filter B-P2
Protection of hands:	
Acid resistant gloves	
Check protective gloves	prior to each use for their proper condition.
Protectiv	ve gloves
EN 274	
	and a supervise of allower to the menuin 1 and the
Sensibilisation by the co	imponents in the glove materials is possible.
ly use chemical-prote	reduce the wearing of gloves to the required minimum. ective gloves with CE-labelling of category III. omponents in the glove materials is possible.

Check the permeability prior to each anewed use of the glove.

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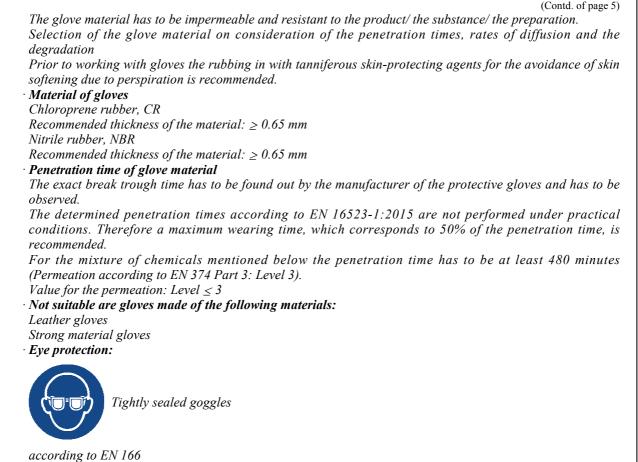
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Body protection: Protective work clothing

9.1 Information on basic physical and General Information Appearance:	d chemical properties	
Appearance. Form:	Fluid	
Colour:	Orange	
Odour:	Odourless	
Odour threshold:	Not determined.	
pH-value at 20°C (68°F):	1	
Change in condition Melting point/freezing point: Initial boiling point and boiling ran	Undetermined. ge: 100°C (212°F)	
Flash point:	Not applicable.	
Flammability (solid, gas):	Not applicable.	
Decomposition temperature:	Not determined.	
Auto-ignition temperature:	Product is not selfigniting.	
Explosive properties:	Product does not present an explosion hazard.	

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· Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
· Vapour pressure at 20°C (68°F):	23 hPa (17.3 mm Hg)	
Density at 20°C (68°F):	1.03 g/cm ³ (8.6 lbs/gal)	
· Relative density	Not determined.	
· Vapour density	Not determined.	
· Evaporation rate	Not determined.	
Solubility in / Miscibility with		
water:	Fully miscible.	
Partition coefficient: n-octanol/water:	Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
9.2 Other information	No further relevant information available.	

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.

SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects
- Acute toxicity Based on available data, the classification criteria are not met.
- Primary irritant effect:
- · Skin corrosion/irritation
- Causes severe skin burns and eye damage.
- · Serious eye damage/irritation
- Causes serious eye damage.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- *Reproductive toxicity Based on available data, the classification criteria are not met.*
- · STOT-single exposure Based on available data, the classification criteria are not met.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.

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GR

Heimerle+Meule

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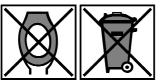
SECTION 12: Ecological information

- · 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.
- Additional ecological information:
- General notes: Not hazardous for water.
- · 12.5 Results of PBT and vPvB assessment Not applicable.
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

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.

· European	· European waste catalogue		
11 00 00	WASTES FROM CHEMICAL SURFACE TREATMENT AND COATING OF METALS AND OTHER MATERIALS; NON-FERROUS HYDRO-METALLURGY		
	wastes from chemical surface treatment and coating of metals and other materials (for example galvanic processes, zinc coating processes, pickling processes, etching, phosphating, alkaline degreasing, anodising)		
11 01 98*	other wastes containing hazardous substances		

· 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

· 14.1 UN-Number · ADR, IMDG, IATA	UN3264
14.2 UN proper shipping name ADR	UN3264 CORROSIVE LIQUID, ACIDIC, INORGANIC
ADK	N.O.S. (SULPHURIC ACID, Dirhodiumtrisulphate)

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IMDG, IATA	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O. (SULPHURIC ACID, Dirhodiumtrisulphate)
14.3 Transport hazard class(es)	
ADR, IMDG, IATA	
B B B B B B B B B B B B B B B B B B B	
Class	8 Corrosive substances.
Label	8
14.4 Packing group	
ADR, IMDG, IATA	III
14.5 Environmental hazards: Marine pollutant:	No
14.6 Special precautions for user	Warning: Corrosive substances.
Danger code (Kemler):	80
EMS Number:	F-A,S-B
Segregation groups Stowage Category	Acids A
Stowage Calegory Stowage Code	A SW2 Clear of living quarters.
14.7 Transport in bulk according to An Marpol and the IBC Code	Not applicable.
Transport/Additional information:	
ADR Limited quantities (LQ) Excepted quantities (EQ)	5L Code: E1
	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
Transport category Tunnel restriction code	3 E
IMDG	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: El
	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
IATA Remarks:	
	24h Emergency Contact - (Gefahrgut-Notrufnummer)
	+49 172 739 6970

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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

TSCA (Toxic Substances Control Act)

All ingredients are listed.

· GADSL

None of the ingredients is listed.

- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- · National regulations:
- · Waterhazard class: Generally not hazardous for water.
- · 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

- Date from last issue : 28.05.2019
- *Relevant phrases H290 May be corrosive to metals. H314 Causes severe skin burns and eye damage.*
- **Department issuing SDS:** Department BASU - Bau/Arbeitssicherheit/Umwelt

sds@heimerle-meule.com

Contact: Herr Thomas Knuth Knuth@heimerle-meule.com sds@heimerle-meule.com
Abbreviations and acronyms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organisation

ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)

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(Contd. of page 10) AwSV: Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (German regulation). TRGS: Technische Regeln für Gefahrstoffe (German regulation) 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 Harmonised 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 (division of the American Chemical Society) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Met. Corr.1: Corrosive to metals - Category 1 Skin Corr. 1: Skin corrosion/irritation – Category 1 Skin Corr. 1A: Skin corrosion/irritation - Category 1A Eye Dam. 1: Serious eye damage/eye irritation - Category 1 • * Data compared to the previous version altered. GB