

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

Printing date: 17.05.2023

Version number 7 (replaces version 6)

Revision: 16.05.2023

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

· **1.1 Product identifier**

· **Trade name:** Adhesive nickel plating bath 216 H  
Haftnickelbad Nr 216 H

· **Article number:** 86950500

· **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  
Dennigstrasse 16  
D-75179 Pforzheim

Telefon +49 (0) 7231 940-0  
Telefax +49 (0) 7231 940-2199  
www.heimerle-meule.com

· **Further information obtainable from:**

Abteilung BASU - Bau/Arbeitssicherheit/Umwelt  
Department BASU - Construction / Occupational Safety / Environment  
sds@heimerle-meule.com

IATA - 24h Emergency Contact - IATA - 24h Emergency Contact -  
(Dangerous goods emergency number)  
+49 172 739 6970

· **1.4 Emergency telephone number:**

DEUTSCHLAND - GERMANY:  
Vergiftungs-Informationen-Zentrale Freiburg, ++49 761 19240 (24 h)  
(Poisoning Information Center)

GREAT BRITAIN:  
National Poisons Information Service +44 121 507 4123  
Members of the public seeking specific information on poisons should contact:  
In England and Wales: NHS 111 - dial 111 - In Scotland: NHS 24 - dial 111

IRELAND  
+353 1 809 2166 (7 Days 8 am -10 pm)  
Healthcare Professionals: +353 1 809 2566

ITALY:  
Istituto Superiore di Sanità (ISS) +3906499906140  
Centro Antiveneni

Bergamo: +39 800 883300  
Firenze +39 055 794 7819  
Milano: +39 055 794 7819  
Roma +39 06 68593726  
Roma +39 06 49978000  
Roma +39 06 3954343

KROATIA - REPUBLIKA HRVATSKA:  
(+385) 01 2348 342

ESTLAND - ESTONIA:  
Tervisemeti Mürgistusteabekeskuse  
National (24/7): 16662  
(+372) 7943 794

LETTLAND - LATVIA:

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Valsts Toksikoloģijas centrs, Saīndēšanās un zāļu informācijas centrs,  
(24h) 112  
(24h) +371 67042473  
LITAUEN - LIETUVOS RESPUBLIKA:  
Poison Information Bureau (24/7), Tel.: +8 5 236 20 52  
Apsinuodījumu informācijas biuras

## SECTION 2: Hazards identification

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



skull and crossbones

Acute Tox. 3      H331    Toxic if inhaled.



health hazard

Resp. Sens. 1      H334    May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Muta. 2            H341    Suspected of causing genetic defects.

Carc. 1A            H350i    May cause cancer by inhalation.

Repr. 1B            H360D    May damage the unborn child.

STOT RE 1        H372    Causes damage to the respiratory system through prolonged or repeated exposure. Route of exposure: Inhalation.



corrosion

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

Eye Dam. 1        H318    Causes serious eye damage.



environment

Aquatic Acute 1    H400    Very toxic to aquatic life.

Aquatic Chronic 1 H410    Very toxic to aquatic life with long lasting effects.



Acute Tox. 4        H302    Harmful if swallowed.

Skin Sens. 1        H317    May cause an allergic skin reaction.

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STOT SE 3      H335    May cause respiratory irritation.

· **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**



GHS05

GHS06

GHS08

GHS09

· **Signal word** *Danger*

· **Hazard-determining components of labelling:**

*nickel dichloride*

*hydrogen chloride*

· **Hazard statements**

H302 *Harmful if swallowed.*

H331 *Toxic if inhaled.*

H314 *Causes severe skin burns and eye damage.*

H334 *May cause allergy or asthma symptoms or breathing difficulties if inhaled.*

H317 *May cause an allergic skin reaction.*

H341 *Suspected of causing genetic defects.*

H350i *May cause cancer by inhalation.*

H360D *May damage the unborn child.*

H335 *May cause respiratory irritation.*

H372 *Causes damage to the respiratory system through prolonged or repeated exposure. Route of exposure: Inhalation.*

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

· **Precautionary statements**

P272 *Contaminated work clothing should not be allowed out of the workplace.*

P273 *Avoid release to the environment.*

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.*

P321 *Specific treatment (see on this label).*

P362+P364 *Take off contaminated clothing and wash it before reuse.*

P405 *Store locked up.*

P501 *Dispose of contents/container in accordance with local/regional/national/international regulations.*

· **Additional information:**

*Restricted to professional users.*

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

GB

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### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture**  
In case of fire, the following can be released:  
Hydrogen chloride (HCl)
- **5.3 Advice for firefighters**
- **Protective equipment:**  
Do not inhale explosion gases or combustion gases.



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.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
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 section 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.  
Open and handle receptacle with care.  
The 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.

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· **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:**

Store only in unopened original 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:**

Do not store together with acids.

Store away from foodstuffs.

· **Further information about storage conditions:**

Keep container tightly sealed.



Store under lock and key and with access restricted to technical experts or their assistants only.

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

· **Storage class:** 6.1 D

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

## SECTION 8: Exposure controls/personal protection

· **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

**CAS: 7718-54-9 nickel dichloride**

WEL (Great Britain)	Long-term value: 0.1 mg/m <sup>3</sup> as Ni; Sk; Carc; Sen
BOELV (European Union)	Long-term value: 0.1* mg/m <sup>3</sup> as Ni; sens. dermal/resp. *inhalable
AGW (Germany)	Long-term value: 0.030E mg/m <sup>3</sup> 8(II); AGS, Sh, Y, 10, 24, 31
TRGS 910 (Germany)	Short-term value: 0.006 (A) mg/m <sup>3</sup> Long-term value: 0.006 (A) mg/m <sup>3</sup> 8, Konzentrationen beziehen sich auf Ni-Gehalt

**CAS: 7647-01-0 hydrogen chloride**

WEL (Great Britain)	Short-term value: 8 mg/m <sup>3</sup> , 5 ppm Long-term value: 2 mg/m <sup>3</sup> , 1 ppm (gas and aerosol mists)
IOELV (European Union)	Short-term value: 15 mg/m <sup>3</sup> , 10 ppm Long-term value: 8 mg/m <sup>3</sup> , 5 ppm
AGW (Germany)	Long-term value: 3 mg/m <sup>3</sup> , 2 ppm 2(I); DFG, EU, Y

· **Regulatory information**

WEL (Great Britain): EH40/2020

BOELV (European Union): EU 2022/431

AGW (Germany): TRGS 900

IOELV (European Union): (EU) 2019/1831

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· **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**

· **Appropriate engineering controls** No further data; see section 7.

· **Individual protection measures, such as personal protective equipment**

· **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

According to EC Directive 89/686/EEC

· **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use 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.

according EN 14387

according to EN 143

· **Recommended filter device for short term use:** Combination filter B-P3

· **Hand protection**



Protective gloves

according to EN 374

To avoid skin problems reduce the wearing of gloves to the required minimum.

Only use chemical-protective gloves with CE-labelling of category III.

Sensibilisation by the components in the glove materials is possible.

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

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Prior to working with gloves the rubbing in with tanniferous skin-protecting agents for the avoidance of skin softening due to perspiration is recommended.

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

The determined penetration times according to EN 16523-1:2015 are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

For the mixture of chemicals mentioned below the penetration time has to be at least 480 minutes (Permeation according to EN 374 Part 3: Level 3).

Value for the permeation: Level  $\leq 3$

· **Not suitable are gloves made of the following materials:** Leather gloves

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· **Eye/face protection**

Tightly sealed goggles

according to EN 166

· **Body protection:** Protective work clothing

### SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**· **General Information**

· <b>Physical state</b>	Fluid
· <b>Colour:</b>	Green
· <b>Odour:</b>	Product specific
· <b>Odour threshold:</b>	Not determined.
· <b>Melting point/freezing point:</b>	Undetermined.
· <b>Boiling point or initial boiling point and boiling range</b>	100°C (212°F)
· <b>Flammability</b>	Not applicable.
· <b>Lower and upper explosion limit</b>	
· <b>Lower:</b>	Not determined.
· <b>Upper:</b>	Not determined.
· <b>Flash point:</b>	Not applicable.
· <b>Decomposition temperature:</b>	Not determined.
· <b>pH at 20°C (68°F)</b>	<1
· <b>Viscosity:</b>	
· <b>Kinematic viscosity</b>	Not determined.
· <b>Kinematic viscosity</b>	
· <b>Dynamic:</b>	Not determined.
· <b>Solubility</b>	
· <b>water:</b>	Fully miscible.
· <b>Partition coefficient n-octanol/water (log value)</b>	Not determined.
· <b>Vapour pressure:</b>	Not determined.
· <b>Vapour pressure:</b>	
· <b>Density and/or relative density</b>	
· <b>Density at 20°C (68°F):</b>	1.18 g/cm <sup>3</sup> (9.85 lbs/gal)
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not determined.

· **9.2 Other information**

· <b>Appearance:</b>	
· <b>Form:</b>	Fluid
· <b>Important information on protection of health and environment, and on safety.</b>	
· <b>Ignition temperature:</b>	Product is not selfigniting.
· <b>Explosive properties:</b>	Product does not present an explosion hazard.
· <b>Change in condition</b>	
· <b>Evaporation rate</b>	Not determined.

· **Information with regard to physical hazard classes**

· <b>Explosives</b>	Void
· <b>Flammable gases</b>	Void

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· <b>Aerosols</b>	Void
· <b>Oxidising gases</b>	Void
· <b>Gases under pressure</b>	Void
· <b>Flammable liquids</b>	Void
· <b>Flammable solids</b>	Void
· <b>Self-reactive substances and mixtures</b>	Void
· <b>Pyrophoric liquids</b>	Void
· <b>Pyrophoric solids</b>	Void
· <b>Self-heating substances and mixtures</b>	Void
· <b>Substances and mixtures, which emit flammable gases in contact with water</b>	Void
· <b>Oxidising liquids</b>	Void
· <b>Oxidising solids</b>	Void
· <b>Organic peroxides</b>	Void
· <b>Corrosive to metals</b>	Void
· <b>Desensitised explosives</b>	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 and stored 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:** Reaktionen with metall
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

### SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity**  
Harmful if swallowed.  
Toxic if inhaled.

· **LD/LC50 values relevant for classification:**

**ATE (Acute Toxicity Estimates)**

Oral	LD50	333 mg/kg
Inhalative	LC50/4 h	1.67 mg/l

**CAS: 7718-54-9 nickel dichloride**

Oral	LD50	100 mg/kg (ATE)
Inhalative	LC50/4 h	0.5 mg/l (ATE)

- **Skin corrosion/irritation** Causes severe skin burns and eye damage.
- **Serious eye damage/irritation** Causes serious eye damage.
- **Respiratory or skin sensitisation**  
May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
May cause an allergic skin reaction.
- **Germ cell mutagenicity** Suspected of causing genetic defects.
- **Carcinogenicity** May cause cancer by inhalation.

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- **Reproductive toxicity** May damage the unborn child.
- **STOT-single exposure** May cause respiratory irritation.
- **STOT-repeated exposure**  
Causes damage to the respiratory system through prolonged or repeated exposure. Route of exposure: Inhalation.

· **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**

· **Remark:** Very toxic for fish

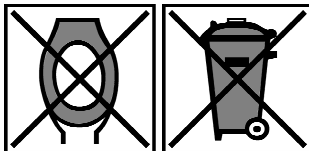
· **Additional ecological information:**

· **General notes:**

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water  
Do not allow product to reach ground water, water course or sewage system, even in small quantities.  
Danger to drinking water if even extremely small quantities leak into the ground.  
Also poisonous for fish and plankton in water bodies.  
Very toxic for aquatic organisms

## 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

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· **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

### SECTION 14: Transport information

· **14.1 UN number or ID number**  
· **ADR, IMDG, IATA**

UN3264

· **14.2 UN proper shipping name**  
· **ADR**

UN3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (HYDROCHLORIC ACID, Nickel(II)-chloride-hexahydrate), ENVIRONMENTALLY HAZARDOUS

· **IMDG**

CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (HYDROCHLORIC ACID, Nickel(II)-chloride-hexahydrate), MARINE POLLUTANT

· **IATA**

CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (HYDROCHLORIC ACID, Nickel(II)-chloride-hexahydrate)

· **14.3 Transport hazard class(es)**

· **ADR, IMDG**



· **Class**  
· **Label**

8 Corrosive substances.  
8

· **IATA**



· **Class**  
· **Label**

8 Corrosive substances.  
8

· **14.4 Packing group**

· **ADR, IMDG, IATA**

II

· **14.5 Environmental hazards:**

Product contains environmentally hazardous substances:  
Nickel(II)-chloride-hexahydrate

· **Marine pollutant:**

Yes  
Symbol (fish and tree)

· **Special marking (ADR):**

Symbol (fish and tree)

· **14.6 Special precautions for user**

Warning: Corrosive substances.

· **Hazard identification number (Kemler code):**

80

· **EMS Number:**

F-A,S-B

· **Segregation groups**

(SGG1) Acids

· **Stowage Category**

B

· **Stowage Code**

SW2 Clear of living quarters.

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· <b>14.7 Maritime transport in bulk according to IMO instruments</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>ADR</b>	
· <b>Limited quantities (LQ)</b>	1L
· <b>Excepted quantities (EQ)</b>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· <b>Transport category</b>	2
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	1L
· <b>Excepted quantities (EQ)</b>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· <b>IATA</b>	
· <b>Remarks:</b>	24h emergency contact - (Dangerous goods emergency number)  +49 172 739 6970
· <b>UN "Model Regulation":</b>	UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (HYDROCHLORIC ACID, NICKEL(II)-CHLORIDE - HEXAHYDRATE), 8, II, ENVIRONMENTALLY HAZARDOUS

### 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**

CAS: 7718-54-9	nickel dichloride	D(FI)
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· **Directive 2012/18/EU**

· **Qualifying quantity (tonnes) for the application of lower-tier requirements** 50 t

· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 200 t

· **National regulations:**

· **Additional classification according to Decree on Hazardous Materials, Annex II:**  
Carcinogenic hazardous material group III (dangerous).

· **Information about limitation of use:**

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.  
Employment restrictions concerning juveniles must be observed.

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*Employment restrictions concerning pregnant and lactating women must be observed.*  
*Employment restrictions concerning women of child-bearing age must be observed.*

· **Technical instructions (air):**

Class	Share in %
II	10-<25

· **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 safety data sheet can be revised according to legal guidelines.*

*Our current version for your reference is available on our website  
[www.heimerle-meule.com](http://www.heimerle-meule.com)*

· **Relevant phrases**

H301 Toxic if swallowed.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H331 Toxic if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

H341 Suspected of causing genetic defects.

H350i May cause cancer by inhalation.

H360D May damage the unborn child.

H372 Causes damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

· **Department issuing SDS:**

*Abteilung BASU - Bau/Arbeitssicherheit/Umwelt*

*Department BASU - Construction / Occupational Safety / Environment*

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· **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)*

*AwSV: Ordinance on facilities for handling water-polluting substances (German regulation).*

*TRGS: Technical rules for hazardous substances (German regulation)*

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

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**Trade name: Adhesive nickel plating bath 216 H**  
**Haftnickelbad Nr 216 H**

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*ADR: Accord relatif au transport international 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)*

*LC50: Lethal concentration, 50 percent*

*LD50: Lethal dose, 50 percent*

*PBT: Persistent, Bioaccumulative and Toxic*

*vPvB: very Persistent and very Bioaccumulative*

*Acute Tox. 3: Acute toxicity – Category 3*

*Acute Tox. 4: Acute toxicity – Category 4*

*Skin Corr. 1B: Skin corrosion/irritation – Category 1B*

*Skin Irrit. 2: Skin corrosion/irritation – Category 2*

*Eye Dam. 1: Serious eye damage/eye irritation – Category 1*

*Resp. Sens. 1: Respiratory sensitisation – Category 1*

*Skin Sens. 1: Skin sensitisation – Category 1*

*Muta. 2: Germ cell mutagenicity – Category 2*

*Carc. 1A: Carcinogenicity – Category 1A<sub>i</sub>*

*Repr. 1B: Reproductive toxicity – Category 1B*

*STOT SE 3: Specific target organ toxicity (single exposure) – Category 3*

*STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1*

*Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1*

*Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1*

**\* Data compared to the previous version altered.**