

*Printing date: 15.12.2022* 

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Version number 9 (replaces version 8)

Revision: 15.12.2022

1.1 Froduct usenifier Trade name: Brightener VG 100 G Ganzzusat; VG 100 G Ganzzusat; VG 100 G Article number: 80938140 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 Electroplating auxiliary 1.3 Details of the supplier of the safety data sheet Manufacturer/Supplier: Heimerle + Meule GmbH Dennigstrasse 16 D-73179 Flor-theim Telefon +49 (0) 7231 940-0 Telefax +49 (0) 7231 940-2199 www.heimerle-meule.com Further information obtainable from:	1 1 Product identifier	
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<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

# **SECTION 2: Hazards identification**

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

health hazard Carc. 1A H350i May cause cancer by inhalation. Repr. 1B H360D May damage the unborn child. STOT RE 2 H373 May cause damage to the respiratory system through prolonged or repeated exposure. corrosion Skin Corr. 1A H314 Causes severe skin burns and eye damage. Eye Dam. 1 *H318* Causes serious eye damage. environment Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects. H317 May cause an allergic skin reaction. Skin Sens. 1 · 2.2 Label elements · Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the GB CLP regulation. (Contd. on page 3) GB

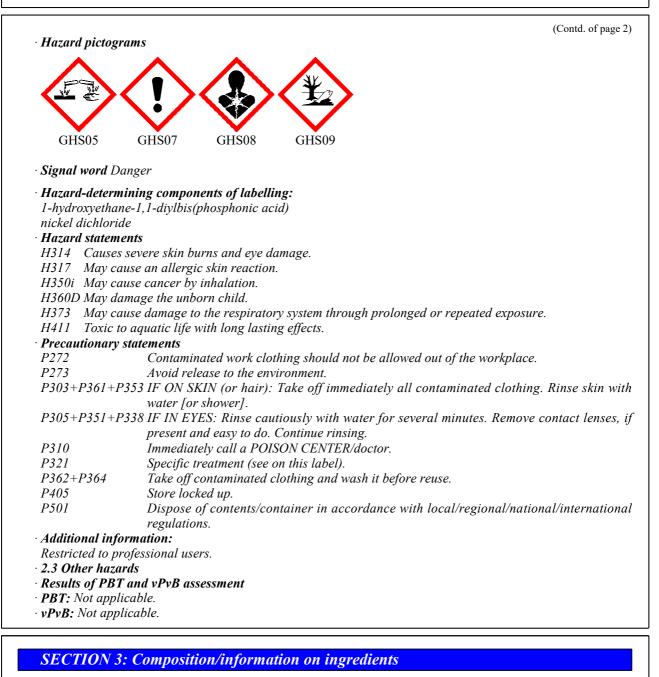


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· 3.2 Mixtures

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

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CAS: 2809-21-4	1-hydroxyethane-1,1-diylbis(phosphonic acid); Phosphonic	<5%
Reg.nr.: 01-2119510391-53	acid, (1-hydroxyethylidene)bis-	
	Eye Dam. 1, H318	
	Áquatic Chronic 1, H410	
CAS: 7718-54-9	nickel dichloride	≥0.3-<0.5%
EINECS: 231-743-0	<i>♦ Acute Tox. 3, H301; Acute Tox. 3, H331</i>	
Index number: 028-011-00-6		
	1B, H360D; STOT RE 1, H372	
	Aquatic Acute 1, H400; Aquatic Chronic 1, H410	
	Skin Irrit. 2, H315; Skin Sens. 1, H317	
	Specific concentration limits: STOT RE 1; H372: $C \ge 1$ %	
	STOT RE 2; H373: 0.1 % $\leq C < 1$	
	%	
	<i>Skin Irrit.</i> 2; <i>H315: C</i> ≥ 20 %	
	<i>Skin Sens.</i> 1; <i>H317</i> : $C \ge 0.01$ %	

# **SECTION 4: First aid measures**

- 4.1 Description of first aid measures
- General information:

Seek immediate medical advice.

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:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

• After skin contact:

Immediately wash with water and soap and rinse thoroughly.

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:

Rinse out mouth and then drink plenty of water.

Seek immediate medical advice.

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.

- 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.: Nitrogen oxides (NOx) Hydrogen chloride (HCl)

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- 5.3 Advice for firefighters
- Protective equipment:



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:
  Do not allow product to reach sewage system or any water course.
  Inform respective authorities in case of seepage into water course or sewage system.
  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: 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

Ensure that suitable extractors are available on processing machines

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.

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Prevent any seepage into the ground.

· Information about storage in one common storage facility:

*Store away from foodstuffs.* 

• *Further information about storage conditions: Keep container tightly sealed. 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 dichlorideWEL (Great Britain)Long-term value: 0.1 mg/m³<br/>as Ni; Sk; Carc; SenBOELV (European Union)Long-term value: 0.1\* mg/m³<br/>as Ni; sans\_darmal/resp\_\*inhalable

	as Ni; sens. aermai/resp. *innalable
AGW (Germany)	Long-term value: $0.030E \text{ mg/m}^3$
	8(II); AGS, Sh, Y, 10, 24, 31
TRGS 910 (Germany)	Short-term value: $0.006 (A) \text{ mg/m}^3$
•	Long-term value: $0.006$ (A) mg/m <sup>3</sup>
	8, Konzentrationen beziehen sich auf Ni-Gehalt

#### · Regulatory information

WEL (Great Britain): EH40/2020 BOELV (European Union): EU 2022/431

AGW (Germany): TRGS 900

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

· 8.2 Exposure controls

• Appropriate engineering controls No further data; see item 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. 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 **P**acommanded filter day

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

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	(Contd. of page
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	TT T
Lower:	Not determined.
Upper:	Not determined.
Flash point:	Not applicable.
Decomposition temperature:	Not determined.
pH at 20°C (68°F)	2
Viscosity:	-
Kinematic viscosity	Not determined.
Dynamic:	Not determined.
Solubility	1101 determined.
water:	Fully miscible.
<i>Partition coefficient n-octanol/water (log value)</i>	Not determined.
Vapour pressure:	Not determined.
	Noi delermined.
Density and/or relative density	1.06 g/cm <sup>3</sup> (8.85 lbs/gal)
Density at 20°C (68°F):	Not determined.
Relative density Vapour density	Not determined.
1 1	Not determined.
9.2 Other information	
Appearance:	
Form:	Fluid
Important information on protection of health an	d 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	
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
Desensaisen enprosires	

# SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

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· 10.2 Chemical stability

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- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** Reacts with acids, alkalis and oxidising agents.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: Reaktions with metalls
- 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

# · LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)

Oral LD50 23,810 mg/kg

Inhalative LC50/4 h 119 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 an allergic skin reaction.
- Carcinogenicity May cause cancer by inhalation.
- · Reproductive toxicity May damage the unborn child.
- STOT-repeated exposure
- May cause damage to the respiratory system through prolonged or repeated exposure.
- 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: Toxic for fish
- Additional ecological information:
- · General notes:
- At present there are no ecotoxicological assessments.

Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground. Also poisonous for fish and plankton in water bodies.

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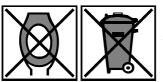
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Toxic for aquatic organisms

# 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

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

14.1 UN number or ID number ADR, IMDG, IATA	UN3082
14.2 UN proper shipping name ADR	UN3082 ENVIRONMENTALLY HAZARDO SUBSTANCE, LIQUID, N.O.S. (1-hydroxyethane-1 diylbis(phosphonic acid), nickel dichloride)
IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANC LIQUID, N.O.S. (1-hydroxyethane-1, diylbis(phosphonic acid), nickel dichloride), MARI POLLUTANT
IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANC LIQUID, N.O.S. (1-hydroxyethane-1, diylbis(phosphonic acid), nickel dichloride)
14.3 Transport hazard class(es) ADR, IMDG, IATA	

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· 14.4 Packing group · ADR, IMDG, IATA	III
· 14.5 Environmental hazards:	Product contains environmentally hazardous substances:
· Marine pollutant:	1-hydroxyethane-1,1-diylbis(phosphonic acid) No Symbol (fish and tree)
· Special marking (ADR): · Special marking (IATA):	Symbol (fish and tree) Symbol (fish and tree)
14.6 Special precautions for user	Warning: Miscellaneous dangerous substances and articles.
<ul> <li>Hazard identification number (Kemler code):</li> <li>EMS Number:</li> <li>Segregation groups</li> <li>Stowage Category</li> </ul>	90 F-A,S-F (SGG1) Acids A
14.7 Maritime transport in bulk according to IM instruments	10 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	3
IMDG 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
IATA Remarks:	
	24h emergency contact - (Dangerous goods emergency number)
	+49 172 739 6970
UN "Model Regulation":	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1-HYDROXYETHANE- 1,1-DIYLBIS(PHOSPHONIC ACID), NICKEL DICHLORIDE), 9, III

# **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

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# (Contd. of page 11) GADSL - Global Automotive Declarable Substance List CAS: 7718-54-9 nickel dichloride D(FI)· Directive 2012/18/EU · Named dangerous substances - ANNEX I None of the ingredients is listed. · Seveso category E2 Hazardous to the Aquatic Environment • Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t • Qualifying quantity (tonnes) for the application of upper-tier requirements 500 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. 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 % Π 0.4 · 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 H301 Toxic if swallowed. 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. 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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sds@heimerle-meule.com	(Contd. of page 12)
· Contact:	
Herr Thomas Knuth	
thomas.knuth@heimerle-meule.com	
sds@heimerle-meule.com	
Abbreviations and acronyms:	
AwSV: Ordinance on facilities for handling water-polluting substances (German regulation).	
TRGS: Technical rules for hazardous substances (German regulation)	
ADR: Accord relatif au transport international des marchandises dangereuses par route (Europ	ean 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	
Skin Corr. 1A: Skin corrosion/irritation – Category 1A	
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 1Ai	
Repr. 1B: Reproductive toxicity – Category 1B	
STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1	
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2	
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	
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2	
* Data compared to the previous version altered.	
	GB