

Nickel-HR No.2 Photometer

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

1.1 - Product identifier

Trade name/designation Nickel-HR No.2 Photometer

Chemical name

Product-type Mixture

Product code TbsPNickHR2

1.2 - Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses - Reagent for water analysis

Uses advised against - Other

1.3 - Details of the supplier of the safety data sheet

Water-I.D. GmbH

Daimlerstr. 20

76344 Eggenstein Germany

Telephone : +49 (0) 721 - 78 20 29 - 0 Fax +49 (0) 721 - 78 20 29 - 11

Website www.water-id.com

EHS / Compliance: lab@water-id.com

1.4 - Emergency telephone number

- Poison Control Center Munich

Tel: +49 (0) 89 / 19 24 0

Germany

24 hour service

Languages: German, English

please also call from: United Kingdom

SECTION 2: Hazards identification

2.1 - Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Acute Tox. 4 Dermal	Acute toxicity (dermal) - Category 4
Acute Tox. 4 Inhalation	Acute toxicity (inhalative) - Category 4
Repr. 1B	Reproductive toxicity - Category 1B

2.2 - Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Contains: boric acid (CAS No.: 10043-35-3)

Signal word : Danger

Hazard pictograms



Hazard statements

H312	Harmful in contact with skin
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Nickel-HR No.2 Photometer

H332	Harmful if inhaled
H360	May damage fertility or the unborn child
Precautionary statements	

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P261	Avoid breathing dust.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves, protective clothing, eye protection.
P302+P352	IF ON SKIN: Wash with plenty of water and soap.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P312	Call a a POISON CENTER, a doctor if you feel unwell.
P362+P364	Take off contaminated clothing and wash it before reuse.
P405	Store locked up.

EUH-phrases : None

2.3 - Other hazards

PBT-substance. - No information available.

vPvB-substance. - No information available.

Other hazards which do not result in classification - No information available.

SECTION 3: Composition / information on ingredients

3.1 - Substances

Not applicable

3.2 - Mixtures

- This mixture contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH:

- Boric Acid

Chemical name	No	%	Class	Spec. concentrations
boric acid	CAS No. : 10043-35-3 Index No. : 005-007-00-2 EC No. : 233-139-2	< 90	Repr. 1B - H360	Repr. 1B - H360 : 5,5>=%<=100
sodium dodecyl sulphate	CAS No. : 151-21-3 Index No. : EC No. : 205-788-1 REACH No. : 01-2119489461-32-XXXX	< 1	Acute Tox. 4 Inhalation - H332 Acute Tox. 4 Oral - H302 Aquatic Chronic 3 - H412 Flam. Sol. 2 - H228 Skin Irrit. 2 - H315 STOT SE 3 (H335) - H335	Eye Irrit. 2 - H319 : 10>=%<20 Eye Dam. 1 - H318 : 20>=%<100

SECTION 4: First aid measures

4.1 - Description of first aid measures

Following inhalation - Provide fresh air.
- After inhaling vapours, first symptoms of poisoning may develop hours later, so always consult a doctor.

Nickel-HR No.2 Photometer

	<ul style="list-style-type: none">- When in doubt or if symptoms are observed, get medical advice.- Medical examination necessary even merely on suspicion of intoxication.- Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours.
<u>Following skin contact</u>	<ul style="list-style-type: none">- After contact with skin, wash immediately with plenty of water and soap.- Remove contaminated, saturated clothing immediately.- In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).- Medical examination necessary even merely on suspicion of intoxication.

<u>After eye contact</u>	<ul style="list-style-type: none">- Rinse immediately carefully and thoroughly with eye-bath or water.
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<u>After ingestion</u>	<ul style="list-style-type: none">- Rinse mouth thoroughly with water.- Do NOT induce vomiting.
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4.2 - Most important symptoms and effects, both acute and delayed

<u>Symptoms and effects - Following inhalation</u>	<ul style="list-style-type: none">- No information available.
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<u>Symptoms and effects - Following skin contact</u>	<ul style="list-style-type: none">- No information available.
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<u>Symptoms and effects - After eye contact</u>	<ul style="list-style-type: none">- No information available.
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<u>Symptoms and effects - After ingestion</u>	<ul style="list-style-type: none">- No information available.
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4.3 - Indication of any immediate medical attention and special treatment needed

- Treat symptomatically. Antidotal dispensation.

SECTION 5: Firefighting measures

5.1 - Extinguishing media

<u>Suitable extinguishing media</u>	<ul style="list-style-type: none">- ABC-powder- Carbon dioxide (CO₂)- Foam- Extinguishing powder
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<u>Unsuitable extinguishing media</u>	<ul style="list-style-type: none">- Full water jet
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5.2 - Special hazards arising from the substance or mixture

<u>Special hazards arising from the substance or mixture</u>	<ul style="list-style-type: none">- Hazardous combustion products
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<u>Hazardous decomposition products</u>	<ul style="list-style-type: none">- Pyrolysis products, toxic- Carbon dioxide (CO₂)- Carbon monoxide- Sulphur oxides
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5.3 - Advice for firefighters

Nickel-HR No.2 Photometer

- Remove product from area of fire.
- Wear a self-contained breathing apparatus and chemical protective clothing.

SECTION 6: Accidental release measures

6.1 - Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

- Use personal protection equipment.
- Remove persons to safety.
- Wear breathing apparatus if exposed to vapours/dusts/aerosols.

For emergency responders

- Wear personal protection equipment (refer to section 8).
- Wear breathing apparatus if exposed to vapours/dusts/aerosols.

6.2 - Environmental precautions

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

6.3 - Methods and material for containment and cleaning up

Methods and material for containment

- No information available.
- Soak up inert absorbent and dispose as waste requiring special attention.

Methods and material for cleaning up

- Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).
- Clear contaminated areas thoroughly.
- Take up carefully when dry.
- Take up dust-free and set down dust-free.
- Ventilate affected area.
- Take up mechanically, placing in appropriate containers for disposal.

Inappropriate techniques

- No information available.

6.4 - Reference to other sections

- Disposal: see section 13
- Safe handling: see section 7
- Personal protection equipment: see section 8

SECTION 7: Handling and storage

7.1 - Precautions for safe handling

Recommendation

- All work processes must always be designed so that the following is excluded: Skin contact
- All work processes must always be designed so that the following is excluded: Generation/formation of dust
- Avoid exposure - obtain special instructions before use.
- Vapours/aerosols must be exhausted directly at the point of origin.
- All work processes must always be designed so that the following is excluded: Inhalation

Nickel-HR No.2 Photometer

- See section 8.

Advices on general occupational hygiene

- Immediately remove any contaminated clothing, shoes or stockings.
- Avoid contact with skin, eyes and clothes.
- Wash contaminated clothing prior to re-use.
- Thorough skin-cleansing after handling the product.
- Wash hands before breaks and after work.
- When using do not eat, drink, smoke, sniff.
- Work in well-ventilated zones or use proper respiratory protection.

7.2 - Conditions for safe storage, including any incompatibilities

- Storage class Non-combustible substances of acute toxicity, category 3 / hazardous substances that are toxic or produce chronic effects (solid)
- Storage class Non-combustible substances of acute toxicity, category 3 / hazardous substances that are toxic or produce chronic effects

7.3 - Specific end use(s)

- Reagent for water analysis

SECTION 8: Exposure controls/personal protection

8.1 - Control parameters

8.2 - Exposure controls

Appropriate engineering controls

- No information available.

Individual protection measures, such as personal protective equipment

- Suitable eye protection: Eye glasses with side protection



- Suitable protective clothing: lab coat



- When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits.



- Suitable material: NBR (Nitrile rubber)

- Suitable respiratory protection apparatus: Particle filter device (DIN EN 143)



Nickel-HR No.2 Photometer

- The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

SECTION 9: Physical and chemical properties

9.1 - Information on basic physical and chemical properties

<u>Physical state</u>	<u>Solid</u>	<u>Appearance</u>	<u>Tablets</u>
<u>Colour</u>	beige	<u>Odour</u>	odourless
Odour threshold		No data available	
pH		6,8 10,5 g/l	
Melting point		No data available	
Freezing point		No data available	
Boiling point		No data available	
Flash point		No data available	
Evaporation rate		No data available	
flammability		No data available	
Lower explosion limit		No data available	
Upper explosion limit		No data available	
Vapour pressure		No data available	
Vapour density		No data available	
Relative density		No data available	
Density		No data available	
Solubility (Water)		very soluble	
Solubility (Ethanol)		No data available	
Solubility (Acetone)		No data available	
Solubility (Organic solvents)		No data available	
Log KOC		No data available	
Auto-ignition temperature		No data available	
Decomposition temperature		No data available	
Kinematic viscosity		No data available	
Dynamic viscosity		No data available	

9.2 - Other information

VOC content	No data available
Minimum ignition energy	No data available
Conductivity	No data available

SECTION 10: Stability and reactivity

10.1 - Reactivity

- This material is considered to be non-reactive under normal use conditions.

10.2 - Chemical stability

Nickel-HR No.2 Photometer

- The product is chemically stable under recommended conditions of storage, use and temperature.

10.3 - Possibility of hazardous reactions

- No hazardous reaction when handled and stored according to provisions.

10.4 - Conditions to avoid

- No information available.

10.5 - Incompatible materials

- No information available.

10.6 - Hazardous decomposition products

- Does not decompose when used for intended uses.

SECTION 11: Toxicological information

11.1 - Information on toxicological effects

Acute toxicity - Acute toxicity (dermal) - Category 4 - Harmful in contact with skin
- Acute toxicity (inhalative) - Category 4 - Harmful if inhaled

Toxicity : Mixture

LD50 oral (rat)	No data available
LD50 dermal (rat)	No data available
LD50 dermal (rabbit)	No data available
LC50 inhalation (rat)	No data available
LC50 inhalation dusts and mists (rat)	No data available
LC50 inhalation vapours (rat)	No data available

- No information available.
- Harmful by inhalation.
- Toxic by inhalation.

Toxicity : Substances

boric acid (10043-35-3)	
LD50 oral (rat)	2600 mg/kg < V < 4080 mg/kg
LD50 dermal (rabbit)	2000 mg/kg
LC50 inhalation dusts and mists (rat)	2,12 mg/l 4h
sodium dodecyl sulphate (151-21-3)	
LD50 oral (rat)	977 mg/kg (OECD 401)
LC50 inhalation dusts and mists (rat)	> 3,9 mg/l 1h (RTECS)

Skin corrosion/irritation - Not classified

Serious eye damage/eye irritation - Not classified

Nickel-HR No.2 Photometer

<u>Respiratory or skin sensitisation</u>	- Not classified
<u>Germ cell mutagenicity</u>	- Not classified
<u>Carcinogenicity</u>	- Not classified
<u>Reproductive toxicity</u>	- Reproductive toxicity - Category 1B - May damage fertility or the unborn child
<u>STOT-single exposure</u>	- Not classified
<u>STOT-repeated exposure</u>	- Not classified
<u>Aspiration hazard</u>	- Not classified

SECTION 12: Ecological information

12.1 - Toxicity

Toxicity : Mixture

EC50 48 hr crustacea	No data available
LC50 96 hr fish	No data available
ErC50 algae	No data available
ErC50 other aquatic plants	No data available
NOEC chronic fish	No data available
NOEC chronic crustacea	No data available
NOEC chronic algae	No data available
NOEC chronic other aquatic plants	No data available

Toxicity : Substances

boric acid (10043-35-3)	
EC50 48 hr crustacea	91 mg/l < V < 165 mg/l
LC50 96 hr fish	74 mg/l < V < 79,7 mg/l
NOEC chronic fish	11,2 mg/l < V < 44,5 mg/l
NOEC chronic crustacea	16,6 mg/l < V < 43,3 mg/l
NOEC chronic other aquatic plants	3,6 mg/l < V < 19,5 mg/l
sodium dodecyl sulphate (151-21-3)	
EC50 48 hr crustacea	5,5 mg/l Daphnia dubia
LC50 96 hr fish	29 mg/l Pimephales promelas (OECD 203)
NOEC chronic crustacea	0,684 mg/l Daphnia dubia (7d)

- The substance/mixture does not fulfill the criteria of the acute aquatic toxicity according to Regulation (EC) No 1272/2008 [CLP], Annex I.

12.2 - Persistence and degradability

Biochemical oxygen demand (BOD)	No data available
Chemical oxygen demand (COD)	No data available
% of biodegradation in 28 days	No data available

Nickel-HR No.2 Photometer

- No information available.

12.3 - Bioaccumulative potential

Bioconcentration factor (BCF)	No data available
Log KOC	No data available

- No indication of bioaccumulation potential.

12.4 - Mobility in soil

- No information available.

12.5 - Results of PBT and vPvB assessment

- No information available.

- No information available.

12.6 - Other adverse effects

- No information available.

SECTION 13: Disposal considerations

13.1 - Waste treatment methods

Waste treatment methods - Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.
- Handle contaminated packages in the same way as the substance itself.

Sewage disposal - Do not empty into drains.

Special precautions for waste treatment - Waste requires special monitoring.
- Collect the waste separately.
- Send to a hazardous waste incinerator facility under observation of official regulations.
- Waste requires monitoring.
- The waste is to be kept separate from other types of waste until its disposal.

Community or national or regional provisions - Dispose according to legislation.

SECTION 14: Transport information

14.1 - UN number

Not applicable

14.2 - UN proper shipping name

14.3 - Transport hazard class(es)

14.4 - Packing group

14.5 - Environmental hazards

Additional information - No dangerous good in sense of these transport regulations.

14.6 - Special precautions for user

Nickel-HR No.2 Photometer

14.7 - Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

SECTION 15: Regulatory information

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

Substances REACH candidates boric acid (Index No.: 005-007-00-2 - EC No.: 233-139-2 - CAS No.: 10043-35-3)

Substances Annex XIV None

Substances Annex XVII None

VOC content No data available

15.2 - Chemical Safety Assessment

Chemical safety assessment carried out for the product - No information available.

SECTION 16: Other information

SDS versions

Version	Issue date	Description of the amendments
1	10.01.2019	MSDS creation

Abbreviations and acronyms - See overview table at www.euphrac.eu

Texts of the regulatory sentences

Acute Tox. 4 Dermal	Acute toxicity (dermal) - Category 4
Acute Tox. 4 Inhalation	Acute toxicity (inhalative) - Category 4
Acute Tox. 4 Oral	Acute toxicity (oral) - Category 4
Aquatic Chronic 3	Hazardous to the aquatic environment - Aquatic Chronic 3
Flam. Sol. 2	Flammable solid. - Category 2
H228	Flammable solid
H302	Harmful if swallowed
H312	Harmful in contact with skin
H315	Causes skin irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation
H360	May damage fertility or the unborn child
H360FD(U)	May damage fertility. May damage the unborn child
H412	Harmful to aquatic life with long lasting effects
Repr. 1B	Reproductive toxicity - Category 1B
Skin Irrit. 2	Irritation, Category 2
STOT SE 3 (H335)	STOT-single exposure - Category 3 (H335)

Nickel-HR No.2 Photometer

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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