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Italien / Italia: +39 (6) 490 663 Kroatien / Croatia: +385 (1) 222 302 Litauen / Lithuania: +370 (2) 269 583 Norwegen / Norway: +47 (22) 591 300		Türkei / Turkey: +90 (312) 433 70 01 Ungarn / Hungary: +36 (1) 215 215 Österreich / Austria: +43 (1) 406 43 43			

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

Classification of components of the whole preparation according to Regulation (EG) No. 1272/2008:

Not hazardous for human health or the environment in any way.

2.2. Label elements

Labelling and hazard notes according to Regulation (EG) No. 1272/2008:

Not hazardous. Labelling not required.

Signal word: none

Hazard-determining component for labelling: none

Hazard statements: none

Precautionary statements: none

Additionally Statements: -

2.3. Other hazards

Use the product by following the standard safety precautions in a lab.



Use appropriate protective clothing (gloves, lab coat, work shoes, safety goggles).

Behavior in the lab: DO NOT SMOKE! DO NOT DRINK! DO NOT EAT!

PBT: not applicable. / vPvB: not applicable.

SECTION 3. Composition/information on ingredients

3.1. Substances


Not applicable. Mixtures from substances listed below contain non-hazardous components like water or proteins.

3.2. Mixtures

Composition of the substances in the mixtures:

Table of hazardous substances in the mixture:

Kit Component	Substance	CAS No.	EC No.	Concentration in the mixture	H rules	P rules

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Buffer Solution		Sodium Azide NaN ₃	26628-22-8	247-852-1	≤ 0.02 %	H300 H310 H373 H410+ EUH032	P273 P310 P330-P302 P352-P310- P391-P501
Buffer Solution		Proclin-300	96118-96-6	247-500-7/ 220-239-6	0.03 %	H331 H311 H301 H314 H317 H410	P261 P273 P280 P305+351+338 P310

Substances with prescribed EC limit values:

Full description of H- and P-rules: refer to section 16.

Substances, which are listed in the "Candidate List of Substances of Very High Concern (SVHC) for authorisation" of European Chemicals Agency (ECHA) are not intended to be part of this product. Therefore, it is not expected that the concentration of such substances is > 0.1 % in the product.

SECTION 4. First-aid measures



4.1. Description of first-aid measures

General advice: Remove contaminated clothing immediately. Consult a physician. Show this safety data sheet to the doctor in attendance. Move out the dangerous area. Hand out the medical doctor this MSDS.

If inhaled: Inhaling is not possible. If there should occur any troubles (e.g., shortness of breath): land the person on fresh air. In case of breathing difficulties transmit oxygen. Consult a doctor. Remove person to fresh air and keep comfortable for breathing.


Skin contact: Wash off with plenty of water and soap, rinse.

Eye contact: Rinse cautiously with water for minimum 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice.

If swallowed: Immediately vigorous rinsing of the mouth. Drink plenty of water (200 - 300 mL) in small sips (dilution effect). Avoid vomiting. No neutralization experiments. Seek medical or contact emergency call.

Increased troubles because of excessive reaction: During recurring or continual reaction there is no expected aggravation of state of health.

4.2. Most important symptoms and effects, both acute and delayed

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Skin contact: no symptoms expected.

Eye contact: no symptoms expected.

If swallowed: no symptoms expected.

If inhaled: it is not possible to inhale the test components under normal conditions of use. No symptoms expected.

4.3. Indication of any immediate medical attention and special treatment needed

Not available.

SECTION 5. Fire fighting measures

5.1. Extinguishing media

Every extinguishing agent, which is suitable for the controlling fire. Gear extinguishing agent to the surrounding.

For safety reasons unsuitable extinguishing agents: none

5.2. Special hazards arising from the substance or mixture

There are no known special risks, which can be caused by the substance or the mixture. Generally: toxic vapours (Carbon monoxide, carbon dioxide) can be released in case of fire (see 10.1)

5.3. Advice for firefighters

Wear self-contained breathing apparatus and suitable protective clothing for fighting against a fire, whereby chemicals are involved.

Move container from fire area if it can be done without risk. Use water spray to keep fire exposed containers cool.

Evacuate area. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.

Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6. Accidental release measures


6.1. Personal precautions, protective equipment and emergency procedures

Note for non-emergency personnel: Use suitable personal protective equipment (safty glasses, white coat, gloves).

Information for emergency responders: Use protective equipment according to section 8.

6.2. Environmental precautions

Avoid releasing major volumes of buffer solution in sewerage. Cover drains to prevent the product from entering the sewer system. Wipe off the liquid with an absorbent material (paper).

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6.3. Methods and material for containment and cleaning up

For larger quantities: not relevant. The volume of all liquid components is ≤ 250 mL.

If spilled over: Collect spillage with absorbent material (paper towel) and collect in appropriate containers for disposal in accordance with local regulations

6.4. Reference to other sections

Applicable limits for occupational exposition are listed in section 7, 8. For disposal refer to section 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Advice for safe handling:

Close containers immediately after use to avoid spillage. Wear protective clothing (gloves / safety clothes / goggles).

Hygiene measures: Do not smoke, drink or eat in the laboratory. Wash hands after use, put off contaminated clothes and protective equipment before entering a break room. Clean hands after use.

Information about fire and explosion protection:

Specific fire and explosion protection measures are not required.

No risk of corrosion known.

All solutions are not flammable

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Specific devices for fire explosion protection or to prevent corrosion are not required

The solutions are not flammable.

Interactions of the ingredients with incompatible substances: none known

Conditions for evaporation: no dangerous effects known

Potential sources of ignition: not present in the product

Effects of weather conditions: none known

Effects of ambient conditions: none known

Effects of the temperature: store at 2-30 °C, can be stored up to the expiration date


Effects of sunlight non known

Effects of moisture: protect the enclosed test cassette from moisture

Effects of vibrations non known

7.3. Specific end use(s)

none

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SECTION 8. Limitation and monitoring of the exposition/ personal protective equipments

8.1. Control parameters according to German TRGS 903: none.

Substance	CAS-No.	EC-No.	MAK (by TRGS 900)	content (%)
Proclin-300	55965-84-9	247-500-7/ 220-239-6	0,2 mg/m ³	≤ 0.03 %

For National exposition limits in other Countries than Germany refer to the corresponding rules!

Country	substance	CAS-Nr.	Identificator	SMW [mg/m ³]	KZW [mg/m ³]	Source
EU	Sodium Azide	26628-22-8	IOELV	0,1	0,3	2000/39/EG

Note:

KZW Short-term value (limit value for short-term exposure): limit value, which is not to be exceeded, unless otherwise stated, related to a duration of 15 minutes.

SMW Shift mean value (limit value for long-term exposure): Time-weighted mean value, measured or calculated for a reference period of eight hours.

Current recommended monitoring procedures:

In case of proper use of the product no air pollution load will be expected. Therefore, no current monitoring procedures are necessary.

8.2. Exposure controls



Personal protective equipment: select personal protective equipment according to the concentration of hazardous substances on the specific workstation.

Eye and face protection: wear safety goggles according to EN 166 (EU), NIOSH (US)




Skin protection: protective gloves according to EN 374 (nitrile rubber > 0,11 mm or natural latex ≥ 0,22 mm and AQL 1,5). Respect allergies!



Further protective measures: wear a lab coat, closed footwear, follow the hygiene instructions in the laboratory.

Breathing protection: respirator mask is not necessary.

Limitation and monitoring of environmental exposure

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See sections 6 and 7.

SECTION 9. Physical and chemical properties


9.1. Information on basic physical and chemical properties

Test cassette

Appearance:	resin in buffer
Odor:	no typical odor
pH-value:	not specified, solid
melting point/freezing point:	not specified, unknown
boiling point and boiling range:	not specified, solid
flashpoint:	not specified, solid
rate of vaporization:	not specified, solid
inflammability (solid, gaseous):	flammable in open fire
upper/ lower inflammability or explosion limit:	not specified
Vapor pressure:	not specified, solid
Vapor density:	not specified, solid
specific gravity:	not specified, solid
solubility:	not specified, solid
distribution coefficient:	not specified, solid
self-ignition point:	no self-ignition possible
decomposition temperature:	not specified, solid
viscosity:	not specified, solid
explosive properties:	none, no explosive substances are used for production.
oxidizing properties:	none, no oxidizing substances are used for production.

Buffer solution, aqueous solution

Appearance:	liquid
Odor:	no typical odor
Odor threshold:	not specified
pH-value:	7.4 ± 0.1
melting point/freezing point:	0°C
boiling point and boiling range:	100°C
flashpoint:	not specified, aqueous solution without flammable ingredients
rate of vaporization:	not specified, like water
inflammability (solid, gaseous):	not flammable
upper/ lower inflammability or explosion limit:	not explosive
vapor pressure:	not specified, aqueous solution
vapor density:	not specified, aqueous solution
specific gravity:	not specified, like water
solubility:	not specified, aqueous solution
distribution coefficient:	not specified
self-ignition point:	no self-ignition possible
decomposition temperature:	not specified

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viscosity: not specified, aqueous solution
explosive properties: none, contains no explosive substances
oxidizing properties: none, contains no oxidizing substances

9.2. Further information

All liquid components of the preparation are infinite water-soluble. No potential for the formation of radicals. No photocatalytic properties.

SECTION 10. Stability and reactivity

10.1. Reactivity

The application of all these components during preparation is not attendant on especial hazards. The mixture is stable under current lab conditions. Down below data of the mixture are denoted.

Ingredients	Incompatible material	Hazardous decomposition product
Sodium azide	Acids, mineral acids	Exothermic reaction with oxidizing agent, acid chlorides, inorganic, metal powders, release of an acutely toxic gas: acids, mineral acids
Proclin-300	strong oxidants, amine, reductive agents, mercaptane	In case of thermic decomposition nitrogen oxides, sulphuric oxides and hydrogen chloride can occur.

10.2. Chemical stability

Under normal conditions of the environment, temperature, and pressure all products are stable while they are stored or in use. The storage conditions of the whole preparation are remarked on the label. The preparation is stable within the expiration date which is denoted at the label.

10.3. Potential hazardous reactions


All the components of the preparation do not cause hazardous reactions at all, such as polymerisation.

10.4. Conditions to avoid

There is no dangerous reaction, but the product becomes unusable due to inappropriate conditions. Avoid heating over a temperature of 30 °C. Accordingly it does not provoke a hazardous reaction, however the product becomes defective.

Under normal conditions of the environment, temperature, and pressure all components are stable till the expiration date has passed.

10.5. Incompatible materials

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None of the components of the preparation reacts with other materials in that way, that a hazardous situation could arise.

10.6. Hazardous decomposition products

Under normal temperature and storage conditions the components of preparation do not form hazardous decomposition products.

SECTION 11. Toxicologic information

11.1. Information about toxicologic effects

The information about the toxicological effects applies to the ingredients of the preparation. The components of the preparation as a whole is categorised as non-hazardous, because the concentration of the ingredients are very low. The whole preparation, unless otherwise specified, is classified as non-toxic, non-corrosive, non-irritant, non-sensitizing, not carcinogen and not mutagenic.


Acute toxicity

Substance	Acute toxicity / species	concentration
Proclin-300	LD ₅₀ oral (Ratte):	53 mg/kg

Skin corrosion/irritation:	not expected.
Eye irritation:	not expected.
Respiratory or skin sensitization:	not expected.
Toxicity at repeated exposition:	not expected.
Genetic toxicity:	not expected.
Toxicity to reproduction:	not expected.
Teratogenicity:	not expected.
Carcinogenicity:	not expected.

Substance	Acute toxicity / species	concentration
Sodium azide	LD ₅₀ oral (Rat):	27 mg/kg
	LD ₅₀ dermal (Rat):	50 mg/kg
	LD ₅₀ dermal (rabbit):	20 mg/kg

Skin corrosion/irritation:	not expected.
Eye irritation:	not expected.

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Respiratory or skin sensitization:	not expected.
Toxicity at repeated exposition:	May cause damage to organs (Brain) through prolonged or repeated exposure.
Genetic toxicity:	not expected.
Toxicity to reproduction:	not expected.
Teratogenicity:	not expected.
Carcinogenicity:	Not classified as germ cell mutagen (mutagenic), carcinogenic or reproductive toxic.
Danger of aspiration:	No information available.
If swallowed, contact to skin or eye:	No information available.

SECTION 12. Ecological information

12.1. Toxicity

Because of the low concentration an **aquatic toxicity is not to be expected**. Hazardous effects for long term are not to be expected. The mixture contains only substances in very low concentrations and is also available in small volumes (\leq 300 mL). Environmental toxicity is therefore not expected.

Acute toxicity of the raw substances to aquatic organisms: no data available except of boric acid

Working substance	Endpoint	Value	Species	Source	Exposure time
Sodium azide)	EC50	0.35 mg/l	Algae	ECHA	96 h
Proclin-300	LC50	0.019 – 2.13 mg/l	Fish	NA	96 h
Proclin-300	EC50	0.056 - 18 mg/l	Invertebrata (<i>Crustacea</i>)	NA	48 h
Proclin-300	EC50	0.06 – 0.13 mg/l	Algae	NA	72 h / 96 h

Chronic toxicity of the raw substances to aquatic organisms: no data available


Terrestrial environment: It is expected that the preparation is non-toxic to plants, animals, and earth organisms. No long-term environmental effects known.

12.2. Persistence and degradability

Available information about persistence and degradability of the mixture.

Substance	Ecological details:
Proclin-300	Toxic for aquatic organism, may cause long-term adverse effects in the environment. Concentration in the mixture is below 0.04 % and volume of the buffer containing the substance is very low.
Sodium azide	The methods for determining biodegradability are included inorganic substances not applicable. Does not accumulate appreciably in organisms.

12.3. Potential of bioaccumulation

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Agents that are hazardous to the environment occur just in a small concentration over the entire preparation. In case of a correct application and disposal there is no reason for potential bioaccumulation. For disposal remarks refer to section 13.

12.4. Mobility in the ground

There are no data available about the mobility in the ground.

12.5. Result of PBT- and vPvB-assessment

All substances used during the preparation are not listed in the PBT- data base. No data are available concerning the mobility in the ground.

12.6. Other adverse effects

Unknown.

SECTION 13. Disposal considerations

13.1. Waste treatment methods

The disposal must be done according to current regional, national and local laws and standards.

Relevant legal basic principles for disposal: see 16.2!

Waste production should be avoided or minimised as far as possible.

Excessive and not recyclable products are not allowed to be disposed by an accepted waste disposal company. The disposal of these products as well as solutions and coproducts have to be done at any time according to the environmental requirements, disposal laws and demand of the local administration.

The disposal must not take place in wastewater.

Especial measures of precaution related to the recommended solutions of waste management:

The disposal must be done according to current regional, national and local laws and standards.

Disposal of the outer packaging: dispose according to current regional, national, and local laws and standards.

SECTION 14. Transport remarks


14.1. UN-Number

ADR/RIS: -

IMGD: -

IATA: -

14.2. UN proper shipping name

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ADR/RIS: no dangerous goods IMDG: no dangerous goods IATA: no dangerous goods

14.3. Transport hazard class

ADR/RIS: - IMDG: - IATA: -

14.4. Packing group

ADR/RIS: - IMDG: - IATA: -

14.5. Environmental hazards

ADR/RIS: no IMDG: Marine pollutant no IATA: no

14.6. Special precautions for user

See sections 6 – 8: none.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

The delivery takes place exclusively in traffic law approved and suitable packaging.

Contamination category (X, Y or Z): not specified

Ship type (1, 2 or 3): not specified.

SECTION 15. Regulatory information

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

Safety, health and environmental regulations/legislation refer to national rules.

This material data sheet is prepared according to Regulation (EG) 2015/830, Regulation (EU) No. 1272/2008 (+ Subsequent ATPs) and REACH Regulation 1907/2006 EC (+ Subsequent Regulations).

Acute toxicity (ATE) of the mixtures are calculated according to Regulation (EG) 1272/2008, Annex I.

According to EG 1272/2008, Annex I the mixtures are not classified as water polluting substances.

15.2. Chemical safety assessment

For the product which was mentioned in chapter 1 no safety estimation was prepared.


SECTION 16. Other information

16.1 History of modifications

Volume 1: 1. 1st revision 25.03.2021.

16.2 References and data source:

REACH-Regulation (EG) Nr. 1907/2006

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CLP-Regulation (EG) Nr. 1272/2008

Internet:

<http://www.baua.de>

<http://publikationen.dguv.de>

<http://gestis.itrust.de>

<http://logkow.cisti.nrc.ca>

<http://www.gischem.de>

<http://echa.europa.eu/en/candidate-list-table>

<http://echa.europa.eu/de/information-on-chemicals/registered-substances>

<http://www.chemicalbook.com/>

<http://www.reach-clp-biozid-helpdesk.de/de/REACH/Zulassung-Beschaerung/Beschaerung/Anhang-XVII/Anhang17.html>

PBT- Database: <http://ecb.jrc.ec.europa.eu/esis/index.php?PGM=pbt>

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16.3 Hazard- and Precautionary rules

The list explains the meaning of the H rules that are given in chapter 2 and 3. The H rules are valid for the ingredients as a pure substance not for the preparation.

List H rules	Meaning
H201	Explosive, danger of mass explosion.
H300	Fatal if swallowed.
H301	Toxic if swallowed
H310	Fatal in contact with skin
H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H331	Toxic if inhaled
H373	May cause damage to organs through prolonged or repeated exposure
H410	Very toxic to aquatic life with long-lasting effects
EUH032	Contact with acids liberates very toxic gas

The list explains the meaning of the P rules that are given in chapter 3.1. The P rules are valid for the ingredients as a pure substance not for the preparation.

List P rules	Meaning
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P280	Wear protective gloves/protective clothing/eye protection/face protection.
P250-372	Do not grind / bump / rub / risk of explosion.
P261	Avoid breathing dust/fumes/gas/mist/vapours/spray.
P273	Avoid release to the environment.
P305+351+338	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/...
P330-P302	IF ON SKIN: Rinse mouth.
P352-P310-P391-P501	Wash with plenty of water/... Immediately call a POISON CENTER/doctor/... Collect spillage. Dispose of contents/container to ...

16.4 Abbreviations

Abbreviations	Meaning
IARC	International Agency for Research on Cancer
ACGIH	American Conference of Governmental Industrial Hygienists
OSHA	Occupational Safety & Health Administration
PBT	persistent, bio accumulative and toxic substances
vPvB	very persistent and very bio accumulative substances
CAS	Chemical Abstracts Service registration number
EC/EG/EWG	Europäische Gemeinschaft
g	Gramm
h	Hour
kg	Kilogramm
LD ₅₀ , LC ₅₀	middle letale dosis of the agent for 50 % of the observed population
EC ₅₀	half maximal effective concentration (dosis/concentration which induces a response halfway between the baseline and maximum after a specified exposure time)
IC ₅₀	half maximal inhibitory concentration
NOEC	no observed effect level
m ³	Kubikmeter
MAK	Maximale Arbeitsplatzkonzentration
mg	Milligramm
mL	Milliliter
%	Percent (part of 100)

16.5 Method which was used to evaluate hazard information for the mixtures

Hazard information's are evaluated according to Regulation (EG) 2015/830 Regulation (EU) No. 1272/2008 (+ Subsequent ATPs) and REACH Regulation 1907/2006 EC (+ Subsequent Regulations).

	MSDS (Material Safety Data Sheet / Sicherheitsdatenblatt)		DO 619
DO 619 Revision /Fassung Nr.: 2.0	Gültig ab: 03.07.2017	QMH – Abschnitt: 5.5	Seiten: 15 von 15
Ausgefülltes Dokument: Revision /Fassung Nr.: 1.0	Gültig ab: 03.11.2022	Produktname: EndoTrap HD Family products	Katolog –Nr.: LET0009, LET0010, LET-HD- FPLC5ML LET0015/L ET0045 LET0016/L ET0046 LET0016/L ET0046 LET0017/L ET0047 LET0023 LET0011 LET0012 LET0013

Method used according to Article 9 of Regulation (EG) No. 1272/2008 for Assessment of Information for Classification of the mixtures: Calculation methods

16.6 Further information's

The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. The information does not constitute an assurance of product properties and does not establish any contractual legal relationship.