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Safety Data Sheet according to Regulation (EC) 1907/2006, amended by (EU) 2020/878

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

1.1. Product identifier:

Product family	EndoTrap® HD resin, prepacked columns and buffers
REF number	LET0009; LET0010; LET0011; LET0012; LET0013; LET0014; LET0015; LET0016; LET0017; LET0023; LET0031; LET0035; LET0067; LET0068
Registration number (REACH)	Not applicable (<1 t/a)

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

Relevant identified uses	For bio-manufacturing and research purposes only
Uses advised against	Do not use for private purposes

1.3. Details of the supplier of the safety data sheet

Lionex GmbH	Tel. +49(0)531 / 2601266
Salzdahlumer Str. 196, Geb. 1A	FAX +49(0)531 / 6180654
D-38126 Braunschweig	e-mail: info@lionex.de
Contact Person: Prof. Dr. Singh	Tel. +49(0)175 / 594 2291


1.4. Emergency telephone number

Germany:

Giftinformationszentrum-Nord der Länder Bremen, Hamburg, Niedersachsen und Schleswig- Holstein	Robert-Koch-Straße 40 37075 Göttingen Tel.: +49(0)551 / 19240
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International:

Belgien / Belgium:	+32(70) 245 245	Polen / Poland:	+48 (42) 657 99 00
Bulgarien / Bulgaria:	+359 (2) 515 32 34	Portugal / Portugal:	+351 (1) 795 01 43
Dänemark / Denmark:	+45 (35) 316 060	Russische – Föderation / Russia	+7 (95) 928 16 47
Finnland / Finland:	+358 (9) 471 977	Schweden / Sweden:	+46 (8) 736 03 84
Frankreich / France:	+33 (3) 883 737 37	Schweiz / Switzerland:	+41 (1) 251 51 51
Griechenland / Greece:	+30 (1) 799 37 77	Slowakei / Slovakia:	+00421 (17) 547 741 66
Großbritannien / GB:	+44 (171) 635 91 91	Slowenien / Slovenia:	+386 (61) 302 457
Holland / Dutch:	+31 (30) 274 88 88	Spanien / Spain:	+34 (91) 562 84 69
Israel / Israel:	+972 (4) 852 92 05	Tschechien / Czech Republik:	+42 (02) 249 192 93
Italien / Italia:	+39 (6) 490 663	Türkei / Turkey:	+90 (312) 433 70 01
Kroatien / Croatia:	+385 (1) 222 302	Ungarn / Hungary:	+36 (1) 215 215
Litauen / Lithuania:	+370 (2) 269 583	Österreich / Austria:	+43 (1) 406 43 43
Norwegen / Norway:	+47 (22) 591 300		

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SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

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

The product family does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

2.2. Label elements

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

Not required

2.3 Other hazards

PBT / 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


List of hazardous substances in the mixture:

Kit Component	Substance	CAS No.	EC No.	Concentration in the mixture	H Statements	P Statements
Buffer solution	Proclin-300	96118-96-6	247-500-7/ 220-239-6	0.025 %	H301 H311 H314 H317 H331 H410	P261 P273 P280 P305 P310 P338 P351

Substances with statutory EU-limits:

For 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.

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SECTION 4. First-aid measures

4.1. Description of first-aid measures



General advice: Take off contaminated clothing.

If inhaled: Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

Skin contact: Rinse with plenty of water. In all cases of doubt, or when symptoms persist, seek medical advice.

Eye contact: Rinse cautiously with water for several minutes. In all cases of doubt, or when symptoms persist, seek medical advice.

If swallowed: Rinse mouth. Seek medical advice.

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

Symptoms and effects are not known to date.

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

Not available.

SECTION 5. Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Every extinguishing agent, which is suitable for the controlling fire.


Extinguishing media unsuitable for safety reasons: none.

5.2. Special hazards arising from the substance or mixture

Adapt extinguishing measures to the surrounding fire. No special risks known. Hazardous vapours/gases may be produced in case of fire: Carbon monoxide, carbon dioxide (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. Do not breathe fumes.

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SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: Use suitable personal protective equipment (safety glasses, coat, gloves).

6.2. Environmental precautions

Keep away from drains, surface and ground water.

Absorb liquids after spillage with an absorbent material (paper towel).

6.3. Methods and material for containment and cleaning up

Advice on how to contain a spill: Covering of drains. Take up mechanically.

Advice on how to clean up a spill: Take up mechanically.

Other information relating to spills and releases: Place in appropriate containers for disposal. Ventilate affected area.

6.4. Reference to other sections

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

SECTION 7. Handling and storage

7.1. Protective measures for safe handling

Notes on safe handling

Close containers with liquids immediately after use to avoid spillage. Store container under lock and key. Wear protective gloves / protective clothing / eye protection. Wash contaminated clothing before reuse.

General hygiene measures: do not eat, drink, smoke in the laboratory. Remove contaminated clothing and protective equipment before entering areas where food is consumed. Clean hands after use. Wash exposed skin thoroughly after use.

Advice on fire and explosion protection

Specific fire and explosion protection measures are not required.

No risk of corrosion known.

All solutions are non-flammable

7.2. Conditions for safe storage, including any incompatibilities


Store dry at 2 – 8 °C.

Interactions of the ingredients with incompatible substances: No dangerous effects known

Special requirements for storage rooms or containers (e.g. Ventilation): No special requirements

7.3. Specific end use(s)

No information available.

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

8.1. Control parameters

Biological limits according to TRGS 900 and 903:

Substance	CAS-No.	EC-No.	MAK (TRGS 900)	Concentration (%)*
Proclin-300	55965-84-9	247-500-7/220-239-6	0.2 mg/m ³	≤ 0.03 %

* The highest concentration of the substances contained in the individual buffers of the preparation is indicated in each case.

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 > 0,28 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: Respiratory protection mask not required. In case of deviating risk assessment, use full-face mask with multi-purpose combination filter type ABEK (EN 14387).

Thermal hazards: Not expected.

Limitation and monitoring of environmental exposure

See sections 6 and 7.

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SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties and appearance

Information on basic physical and chemical properties

Resin

Physical state:	solid
Colour:	white
Odour:	no typical odour
Melting point/freezing point:	-6 °C
Initial boiling point and boiling range:	78 °C
Flammability:	flammable in open fire
Lower and upper explosion limit:	not applicable
Flash point:	not applicable
Ignition temperature:	not determined
Decomposition temperature:	not relevant
pH-value:	not applicable
Kinematic viscosity:	not relevant
Solubility:	not determined
Vapor pressure:	not determined
Relative density:	not determined
Relative vapor density:	not determined
Particle properties:	not determined


Buffer solution, aqueous solutions

Physical state:	liquid
Colour:	colourless
Odour:	no typical odour
Melting point/freezing point:	0 °C
Initial boiling point and boiling range:	100 °C
Flammability:	not determined
Lower and upper explosion limit:	not determined
Flash point:	not determined
Ignition temperature:	not determined
Decomposition temperature:	not determined
pH-value:	7.3 – 7.5
Kinematic viscosity:	not determined
Solubility:	not specified, aqueous solution
Vapor pressure:	not determined, aqueous solution
Relative density:	not determined
Relative vapor density:	not determined
Particle properties:	not applicable

9.2. Other information

Information on physical hazard classes: No additional information

Other safety characteristics: None known

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SECTION 10. Stability and reactivity

10.1. Reactivity

None under normal use.

10.2. Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3. Potential hazardous reactions

No dangerous reactions are to be expected.

10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

10.5. Incompatible materials

Avoid contact with acids, oxidizing agents, acid chlorides, acid anhydrides, alkali metals, organic Peroxides.

10.6. Hazardous decomposition products

Thermal decomposition may yield monomer vapours.

SECTION 11. Toxicologic information

11.1. Information about toxicologic effects according to Directive (EG) Nr. 1272/2008


The information on toxicological effects refers to the ingredients contained in the preparation. The preparation as a whole is classified as non-hazardous, since the concentrations of the ingredients are very low.

Substance	Acute toxicity / species	Concentration
Proclin-300	LD ₅₀ oral (Rat):	862 mg/kg

Intoxication has so far not become known.

11.2. Information on other hazards

Other information: not available

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SECTION 12. Ecological information

12.1. Toxicity

Do not discharge into the drains or waters and do not store on public depositories. There are no data available on the preparation itself.

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No data available

12.4 Mobility in the ground

No data available

12.5. Result of PBT- and vPvB-assessment

Does not contain a PBT-/vPvB-substance at a concentration of $\geq 0,1\%$.

12.6. Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0,1\%$.

12.6. Other adverse effects


No data available

SECTION 13: Disposal instructions

13.1 Waste treatment procedures

Disposal of reagent: in accordance with applicable regional, national and local laws and regulations.

Disposal of outer packaging: in accordance with applicable regional, national and local laws and regulations.

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SECTION 14: Transport information

14.1. UN-Number

ADR/RIS: - IMGD: - IATA: -

14.2. Proper UN shipping name

ADR/RIS: - IMGD: - IATA: -

14.3. Transport hazard classes

ADR/RIS: - IMGD: - IATA: -

14.4. Packing group

ADR/RIS: - IMGD: - IATA: -

14.5. Environmental hazards

ADR/RIS: - IMGD: - IATA: -

14.6. Special precautions for the user

See sections 6 - 8.

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

Delivery only in packaging approved and suitable for transport.

Pollution category (X, Y or Z): not determined

Ship type (1, 2 or 3): not determined


SECTION 15: Regulatory information

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

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

The mixture has not been subjected to a safety assessment.

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SECTION 16: Other information

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their purposes.

For biomanufacturing and research only.

Full text of H-Statements

H301	Toxic if swallowed.
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.
H410	Very toxic to aquatic life with long lasting effects.