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EG Material Safety Data Sheet according to
**Safety Data Sheet according to Regulation (EG) 2015/830 Regulation (EU) No. 1272/2008 (+ Subsequent ATPs) and
REACH Regulation 1907/2006 EC (+ Subsequent Regulations)**

Date: 27.05.2022

Rev. 1

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

1.1. Product identifier:

EndoTrap® red 1/1	LET0001
EndoTrap® red 5/1	LET0002
EndoTrap® red 5	LET0033
EndoTrap® red 10	LET0003
EndoTrap® red 50	LET0004
EndoTrap® red 250	LET0066

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

EndoTrap® red is intended for in vitro quantitative removal of lipopolysaccharide (LPS) from biological samples in aqueous solutions such as proteins, antibodies, cell extracts and nucleic acids. EndoTrap® red can be used in small-scale processes for R&D and large-scale processes, like manufacturing. It can be applied in early or late biomanufacturing process steps.

1.3. Details of the supplier of the safety data sheet

Lionex GmbH

Salzdahlumer Str. 196, Geb. 1A

D-38126 Braunschweig

Tel. +49(0)531 / 2601266

Contact person: Prof. Dr. Singh:

www.lionex.de

FAX +49(0)531 / 6180654

Tel. +49(0)175 / 594 2291

e-mail: info@lionex.de

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)0551 / 19240

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

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

2.2 Label elements

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

Precautionary statement(s)

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P240 Ground and bond container and receiving equipment.
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242 Use non-sparking tools.
P243 Take action to prevent static discharges.

Supplemental Hazard Statements

None

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3. Composition/information on ingredients

3.1. Substances


Mixtures from substances listed below contain non hazardous components.

3.2. Substance / Mixtures: Mixture

Component 1 (not hazardous): 50 % chromatography resin for endotoxin removal in regeneration buffer.

Components:

Component	Designation of substance	CAS No.	EC No.	Concentration in the component	H rules	P rules
Broad spectrum biocide	Mixture of 5-Chloro-2-methyl-4-isothiazolin-3-one and 2-Methyl-2H - isothiazol-3-one (3:1) - ProClin® 150	55965-84-9	911-418-6	0,00025 %	H301 H302 H302 H310 H314 H315 H317 H318 H319 H330 H332 H400 H410 H413	P280 P303 + P361 + P353 P304 + P340 + P310 P305 + P351 + P338

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SECTION 4. First-aid measures



4.1. Description of first-aid measures

General advice: 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 (and hair): Take off immediately all contaminated clothing. Instantly wash with water and rinse thoroughly. Remove any clothing contaminated by the product. Seek medical advice if irritations arise. Wash contaminated clothes before reuse. Call the doctor.

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

If swallowed: If swallowed rinse mouth for several minutes under running water. Do not swallow! If swallowed the rinse mouth by water. Do not induce vomiting. Seek medical or contact emergency call.

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

The most important known symptoms and effects are described section 2.2 and/or in section 11

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

Not available.

SECTION 5. Firefighting measures

5.1. Extinguishing media

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

5.2. Special hazards arising from the substance or mixture

There are not known special risks, which can caused by the substance or the mixture.

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.

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SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use suitable personal protective equipment (safety glasses, white coat, gloves). Avoid breathing dust or aerosols. Do not breathe fumes. Ensure adequate ventilation and clean well the affected area after complete elimination of the material.

6.2. Environmental precautions

Do not let product enter drains.

6.3. Methods and material for containment and cleaning up

Dam liquid and absorb with suitable material (paper) and dispose it carefully in closed containers. Rinse with high volumes of water.

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. Precautions for safe handling

Advice for safe handling: Store locked.

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.

7.2. Conditions for safe storage, including any incompatibilities

No specific measures for prevention of explosive atmospheres necessary.

No risk of corrosion known

The solution is not flammable.

Interactions of the ingredients with incompatible substances: store separate from explosive substances (hazard class 1, hazard class 4.1A), store separate from substances which develop flammable gases in contact with water (hazard class 4.3), store separate from infectious substances (hazard class 6.2) and radioactive substances (hazard class e 7).

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 2-8 °C, can be stored up to the expiration date


Effects of sunlight: avoid exposure of sunlight

Effects of moisture: none known

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

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 work station.

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: respirator mask is not necessary.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

a) Physical state	:	Slurry
b) Color	:	White
c) Odor	:	No data available
d) Melting point/freezing point	:	No data available
e) Initial boiling point and boiling range	:	No data available
f) Flammability (solid,gas)	:	No data available
g) Upper/lower flammability or explosive limits	:	No data available
h) Flash point	:	No data available
i) Autoignition temperature	:	No data available
j) Decomposition temperature	:	No data available
k) pH	:	No data available
l) Viscosity Viscosity, kinematic Viscosity, dynamic	:	No data available
m) Water solubility	:	Soluble at 20 °C
n) Partition coefficient n-octanol/water	:	No data available
o) Vapor pressure	:	No data available
p) Density	:	No data available
Relative density	:	No data available
q) Relative vapor density	:	No data available
r) Particle characteristics	:	No data available
s) Explosive properties	:	Not classified as explosive.
t) Oxidizing properties	:	None

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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.

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

Avoid heating over a temperature of 30 °C. Additionally prevent the Substrate Solution from direct solar radiation. 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

None of the components of the preparation reacts with other materials in that way, that a hazardous situation could arise. Avoid a contact of the Substrate Solution solution with heavy metal salts, peroxidases or catalases. It does not provoke a hazardous reaction, however the product becomes defective.


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.

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Acute toxicity

Substance	Acute toxicity / species	concentration
Disodium dihydrogen ethylenediaminetetraacetate - EDTA	LD ₅₀ oral (rat):	4500 mg/kg
Mixture of 5-Chloro-2-methyl-4-isothiazolin-3-one and 2-Methyl-2H -isothiazol-3-one (3:1) - ProClin® 150	LD ₅₀ oral (rat) : LD ₅₀ dermal (rat): LD ₅₀ inhalation (rat) ; 4 h:	66 mg/kg 87 mg/kg 0,171 mg/l

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.2

Danger of aspiration:

No information available.

SECTION 12. Ecological information

12.1. Toxicity

Mixture

No data available

Acute toxicity of the row substances to aquatic organisms:

Mixture of 5-Chloro-2-methyl-4-isothiazolin-3-one and 2-Methyl-2H -isothiazol-3-one (3:1) - ProClin® 150

Rainbow trout (*Oncorhynchus mykiss*). Flow-through test LC50 : 0,19 mg/l - 96 h (US-EPA)

Water flea (*Daphnia magna*) flow-through test LC50 (US-EPA) : 0,18 mg/l - 48 h

Bacteria activated sludge static test (OECD Test Guideline 209) EC50 : 4,5 mg/l - 3 h


Rainbow trout (*Oncorhynchus mykiss*) semi-static test NOEC (OECD Test Guideline 215) : 0,098 mg/l - 35 d

Water flea (*Daphnia magna*) flow-through test NOEC (US-EPA) : 0,1mg/l - 21 d

Terrestrial environment: nontoxic for plants, animals and earth organisms are expected. No long-lasting hazardous effects on the Environment. The mixture contains substances hazardous to environment in very low concentrations, in addition the total volume of the mixture is very low (≤ 12 mL). Any hazard for the environment is not expected.

12.2. Persistence and degradability

No data available

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12.3. Potential of bioaccumulation

No data available

12.4. Mobility in the ground

No data available

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 has to 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 has 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 has to 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

ADR/RIS: no dangerous goods

IMGD: no dangerous goods

IATA: no dangerous goods

14.3. Transport hazard class

ADR/RIS: -

IMGD: -

IATA: -

14.4. Packing group

ADR/RIS: -

IMGD: -

IATA: -

14.5. Environmental hazards


ADR/RIS: no

IMGD: Marine pollutant no

IATA: no

14.6. Special precautions for user

None.

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

Not relevant.

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

Rev. 1.0 – no modifications, 1st release (27.05.2022)

16.2 References and data source:

REACH-Regulation (EG) No. 1907/2006

CLP-Regulation (EG) No. 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/>

<https://pubchem.ncbi.nlm.nih.gov>


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

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

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[http://www.aekn.de/web_aekn/home.nsf/ContentView/1E8914148D4E37BFC1256FB70036DAF7/\\$File/arbeitsmaterialien.pdf](http://www.aekn.de/web_aekn/home.nsf/ContentView/1E8914148D4E37BFC1256FB70036DAF7/$File/arbeitsmaterialien.pdf)

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16.3 Hazard- and Precautionary rules

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

List H rules	Meaning
H290	May be corrosive to metals.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects.
H360D	May damage fertility or the unborn child.
H410	Very toxic to aquatic life with long-lasting effects.


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
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P261	Avoid breathing dust/fumes/gas/mist/vapours/spray.
P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P303 + P361 + P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P308 + P313	IF exposed or concerned: Get medical advice/attention.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P310	If exposed or concerned: Immediately call a POISON CENTER/doctor/....
P310	Immediately call a POISON CENTER/doctor/....

Categories of acute toxicity (ATE) according to EG 1272/2008

Categorie 1	0 < ATE ≤ 5 (oral in mg/kg body weight)
Categorie 2	5 < ATE ≤ 50 (oral in mg/kg body weight)
Categorie 3	50 < ATE ≤ 300 (oral in mg/kg body weight)
Categorie 4	300 < ATE ≤ 2000 (oral in mg/kg body weight)

16.4 Abbreviations

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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	European Community
g	Gramme
h	Hour
kg	Kilogramme
LD ₅₀ , LC ₅₀	middle lethal 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	cubic metre
MAK	Maximale Arbeitsplatzkonzentration
mg	Milligramme
mL	Milliliter
%	Percent (part of 100)

16.3 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).

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

16.4 Further information

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 represent any guarantee of the properties of the product.