

Safety Data Sheet

according to the European Parliament and Council Regulation (EC) No 1907/2006 (REACH), Article 31, Annex II

Date of issue: 16.1.2015

Date of review:

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Version: 1.0

Name of the mixture: INDOLtest

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

INDOLtest	
Cat. No.	10010255
Reagent 1	1×10 ml

1.2 Relevant identified uses of the substance or mixture and uses advised againstINDOLtest is designed for a quick presumptive determination of *E. coli*.**1.3 Details of the supplier of the safety data sheet**

Name of manufacturer: Erba Lachema s.r.o.
Place of business: Brno, Karásek 1d, postcode 621 00, CZ
ID no: 26918846
Phone: +420 517 077 111
E-mail: msds@erbalachema.com

1.4 Emergency telephone number**Erba Lachema s.r.o.**Phone: +420 517 077 556 (*service only during business hours*)**Toxicological Information Centre (TIS), Na Bojišti 1, 128 01 Prague 2**Phone: +420 224 919 293 or +420 224 915 402 (*service available 24 hours a day*)**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture**

Reagent 1

Classification according to Regulation (EC) No 1272/2008

Skin Irrit. 2 H315

Eye Irrit. 2 H319

STOT SE 3 H335

Classification according to 67/548/EEC or 1999/45/EC

Xi R36/37/38

For a full text of R-phrases and H-statements see Section 16.

2.2 Label elements

Reagent 1



Pictogram:

Signal word: Warning

Hazard-determining components of labelling:

Hydrochloric acid

Hazard statement(s):

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

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Precautionary statement(s):

P280 Wear protective gloves/protective clothing/eye protection.

P302+P352 IF ON SKIN: Wash with plenty of water and soap.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

2.3 Other hazards

Reagent 1 is not classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.1 Substances

The product is a mixture.

3.2 Mixtures

Reagent 1 contains following hazardous substances:

Substance name	Content (% of weight)	CAS number EC number Index number	Classification according to		
			67/548/EEC	1272/2008	
Hydrochloric acid 35–38 %*	15.6	7647-01-0 231-595-7 017-002-01-X	C; R34 Xi; R37	Skin Corr. 1B STOT SE 3	H314 H335
4-dimethylamino cinnamaldehyde	1	6203-18-5 228-267-0 –	Xi; R36/37/38	Skin Irrit. 2 Eye Irrit. 2 STOT SE 3	H315 H319 H335

*) Substance with exposure limits (exposure limits are listed in Section 8.1)
For a full text of R-phrases and H-statements see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

When working with the mixture, take care of personal hygiene and prevent contamination of work clothing and skin. If you have any doubts or when symptoms persist, seek medical attention.

Exposure by inhalation

Discontinue the exposure, remove casualty to fresh air, keep at rest and seek medical advice.

Exposure by contact with skin

Take off all contaminated clothing. After contact with skin, wash immediately with soap and water.

Exposure by contact with eyes

Rinse an open eye (hold eyelids with fingers) with plenty of water for about 15 minutes, transfer casualty to a specialist.

Exposure by ingestion

Rinse mouth with water, drink 1/2 l of lukewarm water, seek medical attention immediately, and do not induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Irritant effects, cough, shortness of breath.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

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SECTION 5: Firefighting measures

The mixture is not flammable, the measure should be adapted to burning substances in the surrounding area.

5.1 Extinguishing media

Unsuitable extinguishing media:

For mixture no unsuitable extinguishing media are known.

5.2 Special hazards arising from the substance or mixture

Ambient fire may liberate hazardous vapours and hydrogen chloride gas.

5.3 Advice for firefighters

Avoid release of extinguishing media into drains. Use breathing apparatus. Wear protective clothing.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Isolate and mark the spill site, order all the people out of the place, who do not participate in the rescue work. Use all recommended personal protective equipment during rescue work.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and material for containment and cleaning up

Absorb spilled agent with a suitable inert material (sand, earth, vapex) and store contaminated material in containers for collection of hazardous waste. For waste disposal, see Section 13.

6.4 Reference to other sections

See section 7, 8 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Observe the principles of work in laboratory. Observe the normal operating procedures for handling chemical substances and mixtures. Use personal protective equipment, see Section 8.

7.2 Conditions for safe storage, including any incompatibilities

Store in dry and covered stores at a temperature between +2 °C and +8 °C.

7.3 Specific end use(s)

The kit is designed for *in vitro* diagnostic devices.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Control parameters of the mixture components according to Government Decree No 361/2007 Coll.

CAS	Substance name	PEL	NPK-P	Note	Conversion factor for ppm
		mg/m ³	mg/m ³		
7647-01-0	Hydrogen chloride	8	15	I	0.679

PEL - Permissible exposure limits; NPK-P - the maximum permissible concentration; D - a significant penetration of the substance through the skin or a strong irritating effect on the skin during exposure; S - the substance has a sensitizing effect; P - serious late effects of the substance cannot be excluded; I - causes irritation of mucous membranes (eyes, respiratory system), resp. skin. * - the physico-chemical properties (e.g. explosiveness) are taken into account for NPK-P.

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Exposure limit values in the workplace according to Directive No 2006/15/EC.

CAS	Substance name	Limit values				Note mg/m ³
		8 hrs		Short term		
		mg/m ³	ppm	mg/m ³	ppm	
7647-01-0	Hydrogen chloride	8	5	15	10	–

The note "skin" attached to the exposure limit values in the workplace indicates the possibility of a serious penetration through the skin.

Limit values for indicators of biological exposure tests are not defined for the product according to Decree No 432/2003 Coll.

8.2 Exposure controls

Appropriate engineering controls

Sufficient ventilation.

Personal protective equipment

a. Eye/face protection

Safety goggles.

b. Hand protection

Protective gloves - rubber, resistant to caustic substances.

c. Skin protection

Acid-resistant protective clothing.

d. Respiratory protection

Required when vapours or aerosols are generated.

e. Thermal hazards

None known.

Environmental exposure controls

To eliminate the emergency conditions, have pre-prepared a decontamination mixture and appropriate collection vessels for reaction residues. Dispose of reaction residues and decontaminated mixtures as hazardous waste water in accordance with relevant legal regulations.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- a. Appearance Clear yellow liquid
- b. Odour Stinging
- c. Odour threshold Information not available
- d. pH (at 20 °C) Information not available
- e. Melting point/freezing point Information not available
- f. Initial boiling point and boiling range (°C) Information not available
- g. Flash point (°C) Information not available
- h. Evaporation rate Information not available
- i. Flammability (solid, gas) Information not available
- j. Upper/lower flammability or explosive limits Information not available
- k. Vapour pressure (hPa) Information not available
- l. Vapour density Information not available
- m. Relative density (kg m⁻³) Information not available
- n. Water solubility Information not available
- o. Partition coefficient: n-octanol/water Information not available
- p. Autoignition temperature (°C) Information not available

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- q. Decomposition temperature (°C)..... Information not available
r. Viscosity Information not available
s. Explosive properties Information not available
t. Oxidizing properties Information not available

9.2 Other information

None.

SECTION 10: Stability and reactivity

Under normal conditions of use and storage the mixture is stable.

10.1 Reactivity

No data available.

10.2 Chemical stability

The mixture is stable at normal temperature and pressure.

10.3 Possibility of hazardous reactions

Risk of explosion with alkali metals, concentrated sulphuric acid. Generates dangerous gases in contact with aluminium, hydrides, formaldehyde, metals, strong alkalis, sulphides.

10.4 Conditions to avoid

Avoid exposure to heat of solar radiation.

10.5 Incompatible materials

Metals.

10.6 Hazardous decomposition products

Hydrogen by reaction with metals.

SECTION 11: Toxicological information**11.1 Information on toxicological effects****a) Acute toxicity**

Based on available data, the classification criteria are not met.

b) Irritability

The mixture is classified as irritating to skin and respiratory system. It causes serious eye irritation.

c) Corrosion

Based on available data, the classification criteria are not met.

d) Sensitization

Based on available data, the classification criteria are not met.

e) Repeated dose toxicity

Based on available data, the classification criteria are not met.

f) Carcinogenicity

Based on available data, the classification criteria are not met.

g) Mutagenicity

Based on available data, the classification criteria are not met.

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h) Reproductive toxicity

Based on available data, the classification criteria are not met.

SECTION 12: Ecological information**12.1 Toxicity**

The mixture is not classified as toxic to environmental.

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

The product does not have the properties of PBT and vPvB. Assessment based on the ingredients that do not have properties of PBT and vPvB.

12.6 Other adverse effects

There is no information about any special danger for environment.

SECTION 13: Disposal considerations**13.1 Waste treatment methods**

Dispose of in compliance with applicable regulations for hazardous waste management. Do not drain into the wastewater. The mixture should be discarded as a laboratory waste. Incinerate residues of the mixture in a hazardous waste incinerator. Contaminated packaging must be treated as hazardous waste.

Waste code	15 01 10	packaging containing residues of or contaminated by dangerous substances
	16 05 06	laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals

SECTION 14: Transport information

Not governed by regulations for transport of dangerous goods (ADR).

14.1 UN number

Not specified.

14.2 UN proper shipping name

ADR/RID: –

IMDG: –

ICAO/IATA: –

14.3 Transport hazard class(es)

ADR/RID: –

IMDG: –

ICAO/IATA: –

14.4 Packing group

ADR/RID: –

IMDG: –

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ICAO/IATA: –

14.5 Environmental hazards

The mixture is not hazardous to the environment during transport.

14.6 Special precautions for user

No data available.

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

Not transported.

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

This safety data sheet complies with the requirements of Regulation (EC) No 1907/2006 (REACH) and Regulation (EC) No 1272/2008 (CLP).

15.2 Chemical safety assessment

Assessment was not carried out.

SECTION 16: Other information**List of H, P-statements and R-phrases**

H-statements: H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

P-statements: P280 Wear protective gloves/protective clothing/eye protection.
P302+P352 IF ON SKIN: Wash with plenty of water and soap.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.

R-phrases: R34 Causes burns.
R36/37/38 Irritating to eyes, respiratory system and skin.

Recommended restrictions on use

This compound is designed for professional use. It should not be used for purposes other than those described in Section 1.2.

Information about data sources used to compile the Safety Data Sheet

Material Safety Data Sheets of raw material suppliers, ECHA (European Chemicals Agency), corporate documentation for products

Declaration

The safety data sheet contains basic data corresponding to the present state of our knowledge and experience, in accordance with applicable regulations. The foregoing information was gathered with the utmost care, but that does not mean that it is complete and should be used as the only correct information. Erba Lachema s.r.o. is not responsible for any damages caused by improper use and handling of the mixture.