


Material Safety Data Sheet

LTA 4 Kit

1 Product and Company Identification	
1.1 Product identification	<p>Product name: LTA 4 Kit Product identifier: LTA 4 Kit Ref. No. : 057304 CAS No. : Not applicable</p>
1.2 Relevant identified uses of the substance or mixture and uses advices against	<p>for in vitro use only following Chapter 7.3 and 16.1. Any other use is disadvised.</p>
1.3 Details of the supplier of this safety data sheet	<p>Company Kommanditgesellschaft Behnk Elektronik GmbH & Co. Hans-Böckler-Ring 27 22851 Norderstedt Germany</p> <p>Phone + 49 (40) 529861 10 Fax + 49 (40) 529861 99 E-Mail info@behnk.de</p>
1.4 Emergency call	<p>+ 49 5261 927294 (Mo - Fr 8 am - 5 pm) Call local authorities alternatively</p>

2 Hazards Identification	
2.1 Classification of substance or mixture	<p>This product does not meet the criteria for classification in accordance with regulation No. 1272/2008 EC Corrosive to metals Category 1 Corrosive effect on the skin Category 1B Severe eye damage Category 1</p>
2.2 Label elements	<p>Pictograms: </p> <p>Signal word: Danger</p> <p>Danger warnings: H290 May corrosive to metals H314 Causes severe skin burns and severe eye damage</p> <p>Safety Instructions: P280 Wear protective gloves/protective clothing/eye protection/face protection P303+P361+P353 In case of contact with skin or hair: Remove all contaminated clothing immediately. Wash skin with water or take a shower P305+P351+P338 In case of contact with eyes: Rinse gently with water for several minutes. Remove any contact lenses if possible. Continue rinsing P310 Immediately call poison information centre / doctor</p>
2.3 Other Hazards	<p>There is no additional hazard information available. This product does not contain any substances or components in amount of 0.1 % or higher that are classified as persistent, bioaccumulating or toxic (PBT).</p>

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3 Composition / Information on ingredients

3.1 Substances

Name:	Sodium hydroxide
Chemical Formula:	NaOH
Molecular Weight:	44.0
CAS-No.:	1310-73-21
EG-No.:	215-185-5
Concentration (w/v)	1...5 %

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4 First Aid Measures

4.1 Description of First Aid measures

General information

Immediately remove all contaminated or soaked clothing. Ensure that the helper protects himself. Never give anything by mouth to an unconscious person.

After inhalation:

Provide fresh air. In case of breathing arrest apply artificial respiration.

After skin contact:

Rinse with plenty of detergent and water. In case of skin irritation seek medical advice. Untreated skin burns lead to wounds that heal with difficulty.

After eye contact:

Rinse immediately with plenty of water for at least 15 min while holding eyelids opened. Remove contact lenses if possible. Continue rinsing. Seek medical attention in any cases.

After ingestion:

Rinse mouth with water. Allow the water to rehydrate in small sips. Never give anything by mouth to an unconscious person. If swallowed, there is a risk of perforation of the oesophagus and stomach due to the caustic effect.

4.2 Most important symptoms and effects, both acute and delayed

Corrosive effect, perforation of stomach and esophagus. Severe eye damage. Risk of blindness.

4.3 Indication of any immediate medical attention and special treatment needed

unknown

5 Fire Fighting Measures

5.1 Extinguishing fire fighting media

Suitable extinguishing media:

Product itself is not combustible. Use water spray, carbon dioxide, foam, dry extinguishing powder

Unsuitable extinguishing media: Water jet.

5.2 Special hazard arising from the substance or mixture

In case of fire, due to the fire or high temperature, hazardous fumes or gases may be liberated.

Hazardous combustion products:

Carbon monoxide

5.3 Advice for fire fighters

Fight fire with normal precautions from a reasonable distance. If advised, wear self-contained breathing apparatus.

5.4 Additional information

There is no further information available.

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6 Accidental Release Measures

- 6.1 Personal precautions, protective equipment and emergency procedures**
Do not breathe gas/vapour/mist/spray/aerosol. Wear prescribed protective clothing. Avoid contact with skin/eyes/clothing
- 6.2 Environmental precautions**
No further precautions or measures needed. Avoid release to the environment. Keep product away from drains or other water courses.
- 6.3 Methods and material for containment and cleaning-up**
Do not return spilled material back in original package. Wipe up spilled material with non-woven or other suitable absorbent material. Clean contaminated surfaces with pure water. Dispose the product and any components in suitable, closed and labelled containers. Absorb spillage to prevent material damage. All measures of containment and disposal must be in accordance to local requirements and regulations.
- 6.4 Cross reference to other related sections**
Refer to section 13 for disposal. Refer to section 8 for personal protection.

7 Handling and Storage

- 7.1 Precautions for safe handling**
Do not leave containers opened after use. Do not eat, drink or smoke during working time. Keep away from food, drink and animal feeding stuff. Wash hands before breaks and after work. Avoid contact to skin, mucosa, eyes or lesions. Do not inhale vapors/mists/aerosols. Use ventilation if necessary. Refer to section 2.2 for further safety information.
- 7.2 Conditions for safe storage, including any incompatibilities**
Store containers only in their original packaging. Recommended storage temperature: see imprint or symbol on the packaging and/or label.
- 7.3 Specific end use**
For in vitro diagnostical use only following the instructions for use of the product.

8 Exposure Controls / Personal Protection

- 8.1 Control Parameters**
Components with limit values that require monitoring at the workplace:
Contains no substances with workplace limit values.
- Biological limit values**
No data available.

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8.2 Exposure controls

Appropriate engineering controls

Take usual measures for good health and safety, and hygiene practice.

Personal protective equipment

Eye protection

Use safety goggle with side protection. All equipment used must be tested and approved under appropriate government standard such as US-NIOSH or EU-EN 166.

Hand/skin protection

Use gloves made of natural rubber or nitrile rubber in accordance to EU directive 89/686/EWG and EN374 norm. Usage of cotton-made gloves under rubber-made gloves is recommended in order to avoid skin irritation.

Body protection

Wash and dry hands after work and before breaks. Use protective clothes in accordance to the local applicable rules and the specific work place.

Respiratory protection

Respiratory protection is usually not necessary. In case of aerosol or mist formation use dust mask with P2 filter. Working space with ventilation or a dust extractor is preferred.

Environmental exposure control

Keep away from drains, surface or ground water. Avoid release to the environment.

9 Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance	colourless, easily movable liquid
Physical state	liquid
Colour	colourless
Odour	odourless
Odour threshold	not applicable
pH value	14
Melting point / range	not applicable
Softening point	not applicable
Initial boiling point / range	not determined
Flash point	not combustible
Evaporation rate	not determined
Vapour pressure	not determined
Vapour density	not determined
Flammability	not combustible
Ignition point	not relevant
Lower explosion limit	not relevant
Upper explosion limit	not relevant
Relative density	no data available
Bulk density	not determined
Water solubility	soluble
Solubility in other solvents	no data available
Partition coefficient:	
n-Octanol / Water	no data available
Auto-ignition temperature	not combustible
Decomposition point	not determined
Viscosity	not applicable
Explosive properties	not explosive
Oxidizing properties	not oxidizing

9.2 Other information

There are no additional data or information available.

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10 Stability and Reactivity

10.1 Reactivity

Corrosive effect on metals. No unforeseen reactions are to be expected when used as intended in accordance with section 7.3.

10.2 Chemical stability

The product is stable if it is stored and handled under the conditions recommended in section 7

10.3 Possibility of hazardous reactions

Strong heat development on contact with acids. Strong reaction with ammonia, alkali and alkaline earth metals, various metals. Decomposition of plastics is possible. No dangerous reactions are to be expected when used as intended in accordance with section 7.3.

10.4 Conditions to avoid

Strongly acidic ambient conditions, strong heating. Not to be expected under normal use according to section 7.3.

10.5 Incompatible materials

strong acids, ammonia, various plastics, various metals. Not to be expected under normal use according to section 7.3.

10.6 Hazardous decomposition products

No decomposition is to be expected when used as intended in accordance with section 7.3. In case of improper use and fire, the decomposition products listed in section 5.2 may occur.

11 Toxicological Information

11.1 Information on Toxicological Effects

Acute Toxicity

Not classified

Skin corrosion/irritation

Causes severe burns.

Serious eye damage/eye irritation

Causes severe eye damage.

Respiratory or skin sensitization

Product is not to be classified as sensitizing.

Summary of evaluation of the CMR properties

Not classified as germ cell mutagenic, carcinogenic nor as a reproductive toxicant.

Specific target organ toxicity - single exposition

No specific target organ toxicity.

Specific target organ toxicity - repeated exposition

No specific target organ toxicity.

Aspiration hazard

Not to be classified as dangerous for aspiration.

Other information

To the best of our knowledge, the product has not been thoroughly investigated.

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12 Ecological information

- 12.1 Toxicity**
No data available
- 12.2 Process of 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**
This substance/mixture does not contain components classified as persistent, bioaccumulative and toxic (PBT) or as very persistent and very bioaccumulative in a concentration of 0.1% or higher
- 12.6 Other adverse effects**
Information on endocrine disruption
Product contains no known or suspected endocrine disruptors.
Ozone depletion potential
This product does not contain any known or suspected ozone depleting substance.
- 12.7 Other information**
Do not dispose of the product uncharged in the environment.

13 Waste Disposal Considerations

- 13.1 Waste treatment methods**
Product
This product and its container must be treated as hazardous waste in compliance to local and national rules in suitable and tightly closed waste containers. Dispose of as hazardous waste in closed containers. Do not allow to enter the sewerage system.
Product residue and uncleaned container
Treat like unused product
Cleaned packages
May added to general or industrial waste
Recommended cleaning agent
Water without any additives

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14 Transport Information	
14.1	Road / Rail / Inland waterway (ADR / RID/ADN) No dangerous goods / not regulated
14.2	Maritime (IMDG) No dangerous goods / not regulated
14.3	Air (ICAO / IATA) No dangerous goods / not regulated
14.4	Packaging group No dangerous goods / not regulated
14.5	Environmental hazards No dangerous goods / not regulated
14.6	Special precautions for user None
14.7	Transport in bulk according annex II of MARPOL 73/78 and the IBC-Code Not applicable, product is not intended to be transported in bulk

15 Regulatory Information	
15.1	<p>Safety, health and environment regulations/legislation specific for the substance or mixture EU Regulations</p> <p>Regulation 649/2012/EU concerning the export and import of hazardous chemicals (PIC) None of the ingredients are listed.</p> <p>Regulation 1005/2009/EC on substances that deplete the ozon layer None of the ingredients are listed</p> <p>Restrictions according to REACH, Title VIII on the manufacturing, placing on the market and use of certain dangerous substances, mixtures and articles None</p> <p>List of substances subject to authorization, REACH Annex XIV/SVHC candidate list None of the ingredients are listed</p> <p>Directive 2012/18/EU (Seveso III) Not assigned</p> <p>Regulation 166/2006/EC concerning the establishment of a European Pollutant Release and Transfer Register</p> <p>(PRTR) None of the ingredients are listed</p> <p>Directive 2000/60/EC establishing a framework for Community action in the field of Water Policy (WFD) None of the ingredients are listed</p> <p>Regulation 98/2013/EU on the marketing and use of explosive precursors None of the ingredients are listed.</p> <p>Regulation 111/2005/EC on rules for the monitoring of trade between the Community and third countries in drug precursors None of the ingredients are listed.</p> <p>Labelling concerning directive 1272/2008/EC Refer to section 2.2</p>
15.2	Chemical Safety Assesment For this product, chemical safety assesments were not carried out.
15.3	Other information No data available

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16 Other Information

16.1 Recommended restrictions of use

This product is only for use as in vitro diagnostics for the intended diagnostic purpose following strictly the instructions for use.

16.2 Copyright

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You only may produce paper copies of this safety data sheet for your own internal purpose. Reprinting, also in extracts, is prohibited.

16.3 Disclaimer

The information in this safety data sheet describes only the safety requirements of the product. It was recorded in all conscience and represents our knowledge on the present day. The information provided in this data sheet is intended to give you advice about the safe handling, store, processing, transport and disposal of the product and must not transferred to any other product. In case of mixing the product with any other substances or mixtures or processing to other products, this data sheet will lose its validation and the information is invalid for the new made-up material. This material safety data sheet will not suspend your own responsibility for the use and handling of the product. We take no responsibility for and are not liable for any defects, damages or losses which may occur by using the product. We refer explicitly to our terms of condition.

16.4 Changes in Previous Editions

None