

# Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH)

Product No: BCK-LFRS-V2.0

Trade name: ClickTech Library Kit full-length mRNA\_Seq V2.0

Version 1.0

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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifiers

Product Name: ClickTech Library Kit full-length mRNA\_Seq V2.0

Product number: BCK-LFRS-V2.0

CAS-Nr.: not available

Index No.: not available

EC No: not available

REACH No: not available

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

Laboratory chemical, for research and development only

### 1.3. Details of the supplier of the safety data sheet

baseclick GmbH

Floriansbogen 2-4

82061 Neuried

Germany

Telephone: +49 89 9699 3401

Fax: +49 9699 4696

E-mail: [support@baseclick.eu](mailto:support@baseclick.eu)

### 1.4. Emergency telephone number

+49 89 9699 3401 (Working days Germany 09:00 AM – 05:00 PM CET)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

Classification according to Regulation (EC) No 1272/2008

H331 - Toxic if inhaled

H350 - May cause cancer

H411 - Toxic to aquatic life with long lasting effects

Aquatic Chronic 3,

H412 Harmful to aquatic life with long lasting effects

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### 2.2. Label elements

#### Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]

Hazard pictograms:



Signal word: Danger

Hazard statements:

H331 - Toxic if inhaled

H350 - May cause cancer

H411 - Toxic to aquatic life with long lasting effects

Precautionary statements:

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray

P201 - Obtain special instructions before use

P273 - Avoid release to the environment

P271 - Use only outdoors or in a well-ventilated area

P202 - Do not handle until all safety precautions have been read and understood

P308 + P313 - IF exposed or concerned: Get medical advice/attention

P391 - Collect spillage

P311 - Call a POISON CENTER or doctor

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

P501 - Dispose of contents/ container to an approved waste disposal plant

Additional information:

Hazardous components within the meaning of EEC directive 67/548 and CLP regulation and related classification:

<1 % Cobalt chloride (CoCl<sub>2</sub>)

Index number: -

CAS-No. 7646-79-0 EC: 231-158-0

10-30 % Cacodylic acid (10-30)

Index number: -

CAS-No. 75-60-5 EC: -

10-20 % Cacodylic acid (10-20)

Index number: -

CAS-No. 75-60-5 EC: -

### 2.3. Other hazards

All chemicals are potentially dangerous. They are therefore only be handled by specially trained personnel with the necessary care.

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## SECTION 3: Composition/information on ingredients

### 3.1 Substance(s)

Not relevant

### 3.2 Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:

<1 % Cobalt chloride (CoCl<sub>2</sub>)

Index number: -

CAS-No. 7646-79-0 EC: 231-158-0

Carc. 1B - H350

Muta. 2 - H341

Repr. 1 - H360

BAcute Tox. 4 - H302

Resp. Sens. 1 - H334

Skin Sens. 1 - H317

Aquatic Acute 1 -H400

Aquatic Chronic 1 -H410

10-30 % Cacodylic acid (10-30)

Index number: -

CAS-No. 75-60-5 EC: -

10-20 % Cacodylic acid (10-20)

Index number: -

CAS-No. 75-60-5 EC: -

Acute Tox. 3 - H331

Skin Corr. 1 - H314

Eye Irrit. 2 - H319

STOT SE 3 - H335

Carc. 1B - H350

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General information: Remove any clothing soiled by the product.

After inhalation: Supply fresh air.

After skin contact: Wash with water and soap.If skin irritation continues, consult a doctor.

After eye contact: Rinse opened eye for 10 minutes under running water. Then consult a doctor.

After swallowing: Rinse out mouth and drink a glass of water. Do not induce vomiting. Call for a doctor immediately and show the container or label.



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

H350 - May cause cancer

H331 - Toxic if inhaled

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

If skin irritation occurs: Get medical advice/ attention.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing agents:

Use fire extinguishing methods suitable to surrounding conditions. CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

For safety reasons unsuitable extinguishing agents:

For this substance/mixture no limitations of extinguishing agents are given.

### 5.2 Special hazards arising from the substance or mixture

In the event of fire development of hazardous combustion gases or vapours possible.

In case of fire, the following can be released:

Nitrogen oxides (NO<sub>x</sub>)

Hydrogen chloride (HCl)

Sulphure oxides (SO<sub>x</sub>)

Carbon monoxide and carbon dioxide

### 5.3 Advice for fire-fighters

Protective equipment:

Mouth respiratory protective device.

Wear self-contained respiratory protective device.

Wear fully protective suit.

Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

Prevent fire-fighting water from entering surface water or groundwater.

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Avoid contact with the eyes and skin.

Wear personal protective equipment.

Evacuate the danger area, observe emergency procedures, consult an expert.

### 6.2 Environmental precautions

Do not allow to enter sewers/ground water or penetrate the soil.

Keep contaminated washing water and dispose of appropriately.

### 6.3 Methods and material for containment and cleaning up

Pick up mechanically.

Dispose of the material collected according to regulations.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Handling corresponding to laboratory safety guidelines.

Information about fire - and explosion protection:

No special measures required.

### 7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles:

Prevent any seepage into the ground.

Information about storage in one common storage facility:

Do not store together with acids. Store away from foodstuffs.

Further information about storage conditions:

Keep container tightly sealed.

Recommended storage temperature:

According to product specification.

### 7.3 Specific end use(s)

No further relevant information available.

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## SECTION 8: Exposure controls/personal protection Handling and storage

### 8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional information:

The lists valid during the making were used as basis.

### 8.2 Exposure controls



**Personal protective equipment:**

**General protective and hygienic measures:**

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

**Individual protection measures**

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

**Respiratory protection:**

Recommended when vapours/aerosols are generated.

Composite filter: B-(P2) (colour code: grey-white)

**Protection of hands:**

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

Nitrile, thickness:  $\geq 0.11$  mm

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

Value for the permeation: Level  $\geq 6$

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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As protection from splashes gloves made of the following materials are suitable:

Nitrile rubber, thickness:  $\geq 0.11$  mm

Value for the permeation: Level  $\geq 6$

### Eye protection:

Tightly sealed goggles

### Body protection:

Protective work clothing

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state: According to product specification

Colour: According to product specification

Odour: None

Odour threshold: No data available

pH (value): No data available

Melting point/freezing point: No data available

Initial boiling point and boiling range: No data available

Flash point: No data available

Evaporation rate: No data available

Flammability (solid, gas): No data available

lower explosion limit (LEL): No data available

upper explosion limit (UEL): No data available

Explosion limits of dust clouds: No data available

Vapour pressure: No data available

Vapour density: No data available

Relative density: No data available

Water solubility (20 °C): No data available

Partition coefficient: n-octanol/water: No data available

Auto-ignition temperature: No data available

Decomposition temperature: No data available

Viscosity, flow time (23 °C): No data available

Viscosity, dynamic (mPas / 20 °C): No data available

Explosive properties: No data available

Oxidizing properties: No data available

### 9.2 Other information:

No data available

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### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

See section 10.3

#### 10.2 Chemical stability

Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

#### 10.3 Possibility of hazardous reactions

Exothermic reaction with:

Strong oxidants

Contact with acids releases toxic gases.

#### 10.4 Conditions to avoid

Strong Heating.

#### 10.5 Incompatible materials

No information available.

#### 10.6 Hazardous decomposition products

In case of fire: see item 5.

### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

Acute toxicity:

LD/LC50 values relevant for classification:

- 7646-79-9 Cobalt chloride (CoCl<sub>2</sub>)
  - Oral LD<sub>50</sub> 80 mg/kg (Rat)
  - Inhalation LC50 593 mg/kg (rat) (3rd party MSDS)
- 75-60-5 Cacodylic acid
  - Oral LD<sub>50</sub> no data available
  - Inhalation LD<sub>50</sub> <6.9 mg/L (rat)

Specific symptoms in biological assay:

No information available.

Primary irritant effect:

on the skin:

Irritant to skin and mucous membranes.

on the eye:

Irritating effect.



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after inhalation:

Vapours may cause irritative symptoms.

Sensitisation:

No sensitising effects known.

CMR effects:

Germ cell mutagenicity:

No information available.

Carcinogenicity:

No information available.

Reproductive toxicity:

No information available.

Aspiration hazard:

No aspiration toxicity classification.

Specific target organ toxicity - single exposure

The substance or mixture is not classified as specific target organ toxicant, single exposure.

Specific target organ toxicity - repeated exposure

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Additional toxicological information:

We have no description of any toxic symptoms.

Further information:

The product should be handled with the care usual when dealing with chemicals.

## SECTION 12: Ecological information

### 12.1 Toxicity

Aquatic toxicity:

Fish toxicity:

7646-79-9 Cobalt chloride (CoCl<sub>2</sub>)

No data available

75-60-5 Cacodylic acid

No data available

Daphnia:

7646-79-9 Cobalt chloride (CoCl<sub>2</sub>)

No data available

75-60-5 Cacodylic acid

No data available

Chronic fish toxicity:

7646-79-9 Cobalt chloride (CoCl<sub>2</sub>)

No data available

75-60-5 Cacodylic acid

No data available

(96h)chronic daphnia toxicity:

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7646-79-9 Cobalt chloride (CoCl<sub>2</sub>)

No data available

75-60-5 Cacodylic acid

No data available

### 12.2 Process of degradability

No further relevant information available.

### 12.3 Bioaccumulative potential

No further relevant information available.

### 12.4 Mobility in soil

No further relevant information available.

Ecotoxicological effects:

Remark:

Do not allow to enter waters, waste water, or soil!

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### 12.5 Results of PBT and vPvB assessment

PBT:Not applicable.

vPvB:Not applicable.

### 12.6 Other adverse effects

No further relevant information available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Recommendation

This material and its container must be disposed of as hazardous waste.

The disposal is regionally differently regulated, therefore the kind of disposal is to be inquired at the responsible authorities.

Uncleaned packaging:

Recommendation:

Disposal according to official regulations.

## SECTION 14: Transport information

### 14.1 UN number

ADR, IMDG, IATA UN1760

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### 14.2 UN Proper shipping name

Not Applicable

Not Applicable

Not Applicable

### 14.3 Transport hazard class(es)

Not Applicable

### 14.4 Packing group

Not Applicable

### 14.5 Environmental hazards

ADR/RID: no

IMDG: no

IATA: no

### 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 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 specific for the substance or mixture

This safety datasheet complies with the requirements of Regulation (EC) No. 689/2008.

### 15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

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### SECTION 16: Other information

#### 16.1 Further information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. It does not represent any guarantee of the accuracy, completeness or properties of the product. This material is intended for use by persons with pertinent technical skills and at their discretion and risk. It is the responsibility of the user to determine the product's suitability for its intended use, the product's safe use, and the product's proper disposal. Disposal of hazardous material may be subject to local laws or regulations. Baseclick GmbH shall not be held liable for any damage resulting from handling or from contact with the above product. Not for drug use! For R&D only!