

Safety Data Sheet

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

Product No: BCK-HTS

Trade name: EdU HTS Kit

Version 2.1

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Revision date: 04.11.2019



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

1.1. Product identifiers

Product Name: EdU HTS Kit

Product number:

BCK-HTS488

BCK-HTS555

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

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]

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects. Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

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2.2. Label elements

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

Hazard pictograms:



Signal word Warning

Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.

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

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Additional information:

EUH031 Contact with acids liberates toxic gas.

2.3. Other hazards

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

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:

CAS: 1185-53-1

EINECS: 214-684-5

2-amino-2-(hydroxymethyl)propane-1,3-diolhydrochloride

Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335

Share of the total amount in the kit:

10-<20%

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CAS: 593-84-0

EINECS: 209-812-1

Index Number: 615-004-00-3

guanidinium thiocyanate

Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Aquatic Chronic 3, H412

Share of the total amount in the kit:

5-<10%

CAS: 7758-98-7

EINECS: 231-847-6

Index Number: 029-004-00-0

copper sulphate

Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox.4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319

Share of the total amount in the kit:

0.3-<1%

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.



4.2 Most important symptoms and effects, both acute and delayed

We have no description of any toxic symptoms.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents:

Use fire extinguishing methods suitable to surrounding conditions. CO₂, 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.

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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_x)

Hydrogen chloride (HCl)

Sulphure oxides (SO_x)

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.

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.

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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.

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)

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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: ≥ 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 ≥ 6

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

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

Nitrile rubber, thickness: ≥ 0.11 mm

Value for the permeation: Level ≥ 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

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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

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:

593-84-0 guanidinium thiocyanate

Oral LD₅₀ 593 mg/kg (rat) (3rd party MSDS)

7758-98-7 copper sulphate

Oral LD₅₀ 300 mg/kg (rat) (TOXNET)

LDLO 50 mg/kg (Men) (RTECS)

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Dermal LD₅₀ >2000 mg/kg (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.

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.

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SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

Fish toxicity:

593-84-0 guanidinium thiocyanate

LC₅₀ 89.1 mg/l/96 h (Poecilia reticulata) (3rd party MSDS)

7758-98-7 copper sulphate

LC₅₀ 0.11 mg/l/96 h (Onchorhynchus mykiss) (ECOTOX)

Daphnia toxicity:1185-53-1 2-amino-2-(hydroxymethyl)propane-1,3-diolhydrochloride

EC50 >100 mg/l/48 h (Daphnia magna) (OECD 202)

593-84-0 guanidinium thiocyanate

EC50 42.4 mg/l/48 h (daphnia) (3rd party MSDS)

7758-98-7 copper sulphate

EC50 0.02 mg/l/48 h (Daphnia magna) (ECOTOX)

Chronic fish toxicity:

593-84-0 guanidinium thiocyanate

NOEC 25 mg/l (Poecilia reticulata) (96h)chronic daphnia toxicity:

593-84-0 guanidinium thiocyanate

NOEC 6.25 mg/l (Daphnia magna) (48h)

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.

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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 UN3082

14.2 UN Proper shipping name

ADR 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (copper sulphate)

IMDG ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (copper sulphate),

MARINE POLLUTANT

IATA ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (copper sulphate)

14.3 Transport hazard class(es)

Class 9 Miscellaneous dangerous substances and articles.

Label 9

14.4 Packing group

ADR, IMDG, IATA III

14.5 Environmental hazards

Environmental hazards: Product contains environmentally hazardous substances: copper sulphate

Marine pollutant: Yes

Symbol (fish and tree)

Special marking (ADR):

Symbol (fish and tree)

14.6 Special precautions for user

Warning: Miscellaneous dangerous substances and articles.

Danger code (Kemler): 90EMS

Number: F-A,S-F

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

Not applicable.

Transport/Additional information:

ADR

Limited quantities (LQ) 5L

Excepted quantities (EQ) Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

Transport category 3

Tunnel restriction code E

IMDG

Limited quantities (LQ) 5L

Excepted quantities (EQ) Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

UN "Model Regulation": UN3082, ENVIRONMENTALLY HAZARDOUSSUBSTANCE, LIQUID, N.O.S. (copper sulphate), 9, III

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. 1907/2006.

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

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!