

Safety Data Sheet

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

Product No: BCMI-003

Trade name: Click Solution

6.0

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Revision date: 31.10.2019



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

1.1. Product identifiers

Product Name: Click Solution [DMSO / t-Butanol (3:1)]

Formal Name: not available

Product Number: BCMI-003

CAS-Number of DMSO: 67-68-5

CAS-Number of t-Butanol: 75-65-0

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]

Classification according to Regulation (EC) No 1272/2008 (CLP):

Hazard class and category:

Flammable liquids - (Flam. Liq. 3), H226 Flammable liquid and vapour

Serious eye damage/ eye irritation - (Eye Irrit. 2), H319 Causes serious eye irritation

Specific target organ toxicity – single exposure (respiratory tract irritation) - (STOT SE 3),

H335 May cause respiratory irritation

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2.2. Label elements

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

Labelling according to Regulation (EC) No 1272/ 2008(CLP):

Hazard symbols:



Signal word: Warning

Hazard statements:

H226 Flammable liquid and vapour.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

Precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P280 Wear protective gloves/ eye protection.

P303+P361+P353 IF ON SKIN (or hair): take off immediately all contaminated clothing. Rinse skin with water/ shower.

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

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

P312 Call a POISON CENTER/ doctor if you feel unwell.

2.3. Other hazards

No data available

SECTION 3: Composition/information on ingredients

3.1 Substance(s)

not relevant

3.2 Mixtures

Contains:

Dimethyl sulfoxide (DMSO): CAS-Number: 67-68-5 (60-80%)

tert-Butanol (t-Butanol): CAS-Number: 75-65-0 (20-40%)

Description: colourless liquid

TLV units: Unknown

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SECTION 4: First aid measures

4.1 Description of first aid measures

General notes:

Avoid all direct contact.

In case of contamination always contact physician.

If inhaled:

Move person into fresh air. If not breathing give artificial respiration.

In case of skin contact:

Wash off with soap and plenty of water.

In case of eye contact:

Flush thoroughly with water.

If swallowed:

Contact physician.

Never induce vomiting or give liquids to someone who is unconscious or cannot swallow.

Rinse mouth with water



4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

5.2 Special hazards arising from the substance or mixture

A finely divided dust aerosol may be explosive although the exact conditions of the hazard are unknown. Avoid dispersing dust.

Hazardous combustion products:

In case of fire may be liberated: carbon monoxide (CO), carbon dioxide (CO₂), Sulphur oxides

5.3 Advice for fire-fighters

Use material suitable and appropriate to surrounding fire conditions.

Wear self contained breathing apparatus for fire fighting if necessary.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid all direct contact.

Personal precautions: Avoid breathing vapors, mist or gas.

6.2 Environmental precautions

Take precautions to ensure product does not enter the drainage system.

6.3 Methods and material for containment and cleaning up

Take up with absorber material. Keep in suitable, closed containers for disposal.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Handling: Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

7.2 Conditions for safe storage, including any incompatibilities

Storage: Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Hygroscopic

Further information about storage conditions: RT

7.3 Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection Handling and storage

8.1 Control parameters

Additional information about design of technical facilities: No further requirements.

Ingredients with limit values that require monitoring in the workplace: No ingredients need monitoring.

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8.2 Exposure controls



Personal protective equipment:

Respiratory protection: Respiratory protection is not required. Where protection is desired, use multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection: For prolonged or repeated contact use protective gloves.

Eye protection: Safety glasses

Hygiene measures: General industrial hygiene practice.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state: liquid

Colour: colourless

Odour: characteristic

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: >55 °C

Evaporation rate: No data available

Flammability (solid, gas): No data available

lower explosion limit (LEL): 2.3 % (V)

upper explosion limit (UEL): 28.5 % (V)

Explosion limits of dust clouds: No data available

Vapour pressure: 5.413 Pa at 25 °C

Vapour density: 1.018 g/cm³

Relative density: No data available

Water solubility (20 °C): miscible in any proportion

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

Auto-ignition temperature: Not 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

No data available

10.2 Chemical stability

Storage stability: stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Dangerous reactions: Avoid strong oxidizing agents, strong reducing agents, Phosphorus halides, Acid chlorides.

10.4 Conditions to avoid

Dangerous decomposition: Hazardous decomposition products formed under fire conditions.
– Carbon oxides, Sulphur oxides.

10.5 Incompatible materials

Avoid strong oxidizing agents, strong reducing agents, Phosphorus halides, Acid chlorides.

10.6 Hazardous decomposition products

Dangerous decomposition: Carbon oxides, Sulphur oxides

SECTION 11: Toxicological information

11.1 Information on toxicological effects

This mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

Acute toxicity: Shall not be classified as acutely toxic.

Acute toxicity of components of the mixture: t-Butanol

CAS-Number of t-Butanol: 75-65-0

Exposure route: inhalation: vapour

ATE: 11

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SECTION 12: Ecological information

12.1 Toxicity

acc. to 1272/2008/EC: Shall not be classified as hazardous to the aquatic environment.

Aquatic toxicity (acute) of components of the mixture:

t-Butanol CAS-Number: 75-65-0

LC50: >961 mg/l – Fish – 96 hours

EC50: 933 mg/l – aquatic invertebrates – 48 hours

Aquatic toxicity (chronic) of components of the mixture:

t-Butanol CAS-Number: 75-65-0

EC50: >976 mg/l – Algae – 24 hours

12.2 Process of degradability

The substance is readily biodegradable:

Degradability of components of the mixture:

t-Butanol CAS-Number: 75-65-0

Biotic/ Abiotic - >99,9% - 19 d

Carbon dioxide generation - 2,6-5,1 % - 29 d

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB

12.6 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product:

Consult the appropriate local waste disposal expert about waste disposal.

Contaminated packaging:

see Product

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SECTION 14: Transport information

14.1 UN number

UN number: 1120

14.2 UN Proper shipping name

UN proper shipping name: Butanols

Hazardous ingredients: Ter-butyl alcohol

14.3 Transport hazard class(es)

Class 3 (flammable liquids)

14.4 Packing group

III (substance presenting low danger)

14.5 Environmental hazards

Environmental hazards: none

ADR/RID

No dangerous goods.

IMDG

No dangerous goods.

IATA

No dangerous goods.

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

Further information: The product does not need to be labeled in accordance with EC directives or respective national laws.

15.2 Chemical Safety Assessment

Note: The toxicological properties of this material have not yet been thoroughly investigated. Use prudent laboratory practices for handling chemical substances of unknown toxicity.

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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!