

## Safety Data Sheet

### Section 1: Identification of the substance, company and intended use.

#### 1.1 Identification of the substance/mixture

Product No.: 1153, Component E, 100 mM Copper sulfate  
Product Name: Click-&-Go Dde Protein Enrichment Kit  
Synonym: Cupric sulfate anhydrous; Cupric sulfate; Copper monosulfate

#### 1.2 Identified use of the substance

Identified Use: Laboratory chemicals, manufacture of substances

#### 1.3 Company/undertaking identification

Click Chemistry Tools  
8341 E. Gelding Drive  
Scottsdale, AZ 85260  
Tel: 1-480-584-3340  
Fax: 1-866-717-2037

### Section 2: Composition/Information on Ingredients

CAS No.: 7758-99-8  
Mol. Formula:  $\text{CuSO}_4 \times 5 \text{H}_2\text{O}$   
Mol. Weight: 249.69  
Assay: N/A

### Section 3: Hazards Identification

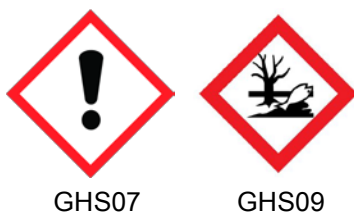
#### 3.1 Classification of the substance or mixture

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Acute oral toxicity	Category 4
Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2

#### 3.2 GHS Label elements, including precautionary statements

Hazard pictograms (GHS-US) :



Signal word (GHS-US) :	Warning
Hazard statements (GHS-US) :	H302 - Harmful if swallowed H410 - Very toxic to aquatic life with long lasting effects
Precautionary statements (GHS-US) :	P264 - Wash exposed skin thoroughly after handling P270 - Do not eat, drink or smoke when using this product P273 - Avoid release to the environment P311 - Call a POISON CENTER or doctor/physician P330 - If swallowed, rinse mouth P391 - Collect spillage P501 - Dispose of contents/container to comply with local, state and federal regulations

### 3.3 Hazards not otherwise classified (HNOC) or not covered by GHS

None

## Section 4: First-Aid Measures

### 4.1 Description of first aid measures

#### If inhaled

Not expected to be an inhalation hazard under anticipated conditions of normal use of this material. Consult a physician if necessary.

#### In case of skin contact

Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

#### In case of eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Obtain medical attention if pain, blinking or redness persists.

**If swallowed**

Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a POISON CENTER or physician if you feel unwell.

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

Swallowing a small amount of this material will result in serious health hazard.

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

No additional information available

**Section 5: Fire Fighting Measures**

**5.1 Extinguishing media**

Water spray. Carbon dioxide (CO<sub>2</sub>). Foam. Dry chemical.

**5.2 Advice from firefighters**

Standard procedure for chemical fires.

**5.3 Further information**

No data available

**Section 6: Accidental Release Measures**

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

Ensure adequate ventilation. Always wear recommended Personal Protective Equipment. Use personal protection equipment. See Section 8 for more detail.

**6.2 Environmental precautions**

No special environmental precautions required.

**6.3 Methods and materials for containment and cleaning up**

Take up mechanically, placing in appropriate containers for disposal.

**6.4 Reference to other sections**

See Section 8 for additional information.

## **Section 7: Handling and Storage**

### **7.1 Precautions for safe handling**

Always wear recommended Personal Protective Equipment. No special handling advices are necessary.

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

Keep in a dry, cool and well-ventilated place.

### **7.3 Specific end use(s)**

For research use only.

## **Section 8: Exposure Controls/Personal Protection**

### **8.1 Control parameters**

#### **Exposure Limits**

Contains no substances with occupational exposure limit values

#### **Engineering measures**

Ensure adequate ventilation, especially in confined areas

### **8.2 Exposure controls**

#### **Personal Protective Equipment**

##### **Respiratory protection**

In case of insufficient ventilation wear respirators and components tested and approved under appropriate government standards

##### **Hand protection**

Wear suitable gloves Glove material: Compatible chemical-resistant gloves

##### **Eye/Face protection**

Wear tight sealing safety goggles

##### **Skin/Body Protection**

Wear suitable protective clothing

## Hygiene measures

Handle in accordance with good industrial hygiene and safety practice

## Control of Environmental exposure

No special environmental precautions required

## Section 9: Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

a) Appearance	Form: Liquid
b) Odor	No data available
c) Odor Threshold	No data available
d) pH	Not Applicable
e) Melting / Freezing points	°C and °F Mixture has not been tested
f) Initial boiling point & boiling range	°C and °F Mixture has not been tested
g) Flash point	°C and °F Mixture has not been tested
h) Evaporation rate	No data available
i) Flammability (solid, gas)	Non Flammable
j) Explosive limits	Mixture has not been tested
k) Vapor pressure	Mixture has not been tested
l) Vapor pressure	Mixture has not been tested
m) Relative density	Mixture has not been tested
n) Water solubility	Soluble in water
o) Partition coefficient: n-octanol/water	No data available
p) Auto-ignition temperature	No data available
q) Decomposition temperature	No data available
r) Viscosity	No data available
s) Explosive properties	No data available

t) Oxidizing properties

No data available

## 9.2 Other safety information

No data available.

## Section 10: Stability and Reactivity

### 10.1 Reactivity

None known

### 10.2 Chemical stability

Stable under normal conditions

### 10.3 Possibility of hazardous reactions

Hazardous reaction has not been reported

### 10.4 Conditions to avoid

Extremely high or low temperatures

### 10.5 Incompatible materials

Strong reducing agents. Strong bases.

### 10.6 Hazardous decomposition products

Sulfur compounds. Copper

## Section 11: Toxicological Information

### 11.1 Information on toxicological effects

Likely routes of exposure:

Skin and eye contact

Acute Toxicity:

Oral; Harmful if swallowed

### 11.2 Principal Routes of Exposure

**Irritation**

Conclusive but not sufficient for classification

**Corrosivity**

Conclusive but not sufficient for classification

**Sensitization**

Conclusive but not sufficient for classification

**STOT - Single Exposure**

Conclusive but not sufficient for classification

<b>STOT - Repeated Exposure</b>	Conclusive but not sufficient for classification
<b>Carcinogenicity</b>	Conclusive but not sufficient for classification
<b>Mutagenicity</b>	Conclusive but not sufficient for classification
<b>Reproductive toxicity</b>	Conclusive but not sufficient for classification
<b>Aspiration hazard</b>	Conclusive but not sufficient for classification

## **Section 12: Ecological Information**

### **12.1 Toxicity**

Very toxic to aquatic life with long lasting effects.

### **12.2 Persistence and degradability**

No information available

### **12.3 Bio accumulative potential**

No information available

### **12.4 Results of PBT and vPvB assessment**

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

### **12.5 Other adverse effects**

No information available

## **Section 13: Disposal Considerations**

### **13.1 Waste treatment methods**

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in accordance to approved disposal technique. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations.

## **Section 14: Transport Information**

### **14.1 IATA / ADR / DOT-US / IMDG**

UN3082 Environmentally hazardous substances, liquid, n.o.s. (Copper Sulfate), 9, III

<b>UN number</b>	UN3082
<b>UN proper shipping name</b>	Environmentally hazardous substance, liquid n.o.s. Copper sulfate
<b>Transport hazard class(es)</b>	9- Class 9- Miscellaneous hazardous material 49 CFR 173.140
<b>Packing group</b>	III – Minor danger
<b>Environmental hazards</b>	Dangerous to the environment
<b>Special precautions for user</b>	Not Applicable
<b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	Not Applicable

## Section 15: Regulatory Information

### 15.1 SARA 313 Components

This product is not regulated by SARA

### 15.2 Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain HAPs

### 15.3 California Proposition 65

This product does not contain any Proposition 65 chemicals.

### 15.4 WHMIS Hazard Class

Non-controlled

This product has been classified in accordance with the hazard criteria of the Controlled Products

Regulations (CPR) and the MSDS contains all the information required by the CPR.

## Section 16: Other Information



Revision date : 12/21/2018

Other information : None.

Full text of H-phrases: see section 16:

H301	Toxic if swallowed
H302	Harmful if swallowed
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

NFPA health hazard : 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.

NFPA fire hazard : 0 - Materials that will not burn under typical dire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.

NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.



For research purposes only. Not intended for human or animal diagnostic or therapeutic uses.

#### Disclaimer

The information provided in this Safety Data Sheet is from available published sources and is believed to be accurate to the best of our knowledge at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

**End of SDS**