SAFETY DATA SHEET

SDS DAB Enhancer

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name: **DAB Enhancer**

Other name of Identification:
Product number: **NB308 and NB308-30**
Brand: **Innovex**

Manufacturer: Innovex Biosciences Inc.

1.2 Relevant Identified uses of the substance or mixture and uses advised against

Identified uses: Use in laboratories - Professional.

1.3 Details of the supplier of the safety data sheet

Company name: Innovex Biosciences Inc.
1099 Essex Ave.
Richmond CA 94801
USA

Telephone: 1 800-622-7808
Fax: 510-234-4591

1.4 Emergency telephone number

Emergency Tel: 510-234-6600

2. HAZARDS IDENTIFICATION

2.1 Classification : GHS
Mixture.

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Acute aquatic toxicity (Category 1), H400

For full detail of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS label elements, including precautionary statements:

GHS Symbol: Not applicable

Signal word: Not applicable

Hazard statement(s)

H412	Toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P273	Avoid release to the environment.

2.3 Other hazards

PBT: This product is not identified as a PBT/vPvB substance.

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3. COMPOSITION/ INFORMATION ON INGREDIENTS

3.1 Mixtures

Hazardous ingredients:

COPPER SULPHATE

CAS	EC	CLP Classification
7758-98-7	231-847-6	Acute Tox. 4: H302; Eye Irrit. 2: H319; Skin Irrit. 2: H315; Aquatic Chronic 1: H410; Aquatic Acute 1: H400

CHIP Classification	Percent within mixture
Xn: R22; Xi: R36/38; N: R50/53	<1%

For the full text of the H-Statements and others mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

Skin contact: Wash immediately with plenty of soap and water.

Eye contact: Flush eyes with running water for 15 minutes.

Ingestion: Rise mouth with water**.** Never give anything by mouth to an unconscious person.

Inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a doctor.

4.2 Most important symptoms and effects, both acute and delayed

Skin contact: There may be mild irritation and redness at the site of contact.

Eye contact: There may be irritation and redness.

Ingestion: There may be irritation of the throat.

Inhalation: There may be mild difficulty in breathing if inhaled in a poorly ventilated room.

Delayed / immediate effects: No data available.

4.3. Indication of any immediate medical attention and special treatment needed
No data available.

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5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media
Suitable extinguishing media for the surrounding fire should be used. Water spray. Carbon dioxide. Dry chemical powder. Alcohol or polymer foam. Alcohol resistant foam

5.2 Special hazards arising from the substance or mixture
No data available.

5.3 Advice for fire-fighters
Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

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6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Turn leaking containers leak-side up to prevent the escape of liquid. Evacuate personnel to safe areas.
For personal protection see section 8.

6.2 Environmental precautions
Do not discharge into drains or rivers. Contain the spillage using bunding.

6.3 Methods and materials for containment and cleaning up

Clean-up procedures
Absorb into dry earth or sand. Transfer to a closable, labeled salvage container for disposal by an appropriate method.

6.4 Reference to other sections
See section 8 and section 13 of SDS.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid direct contact with the substance.

7.2 Conditions for safe storage, including any incompatibilities
Store at 2-8^{o}c. Keep container tightly closed.

7.3 Specific end use(s)
Use in laboratories - Professional.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Copper sulphate	7758-98-7	TWA	1.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		PEL	1 mg/m3	California Permissible Exposure limits For chemical contaminants (Title 8, Article 7)

8.2 Exposure controls

Engineering measures: Maintain general industrial hygiene practice.
Ensure all engineering measures mentioned in section 7 of SDS are in place.

Respiratory Protection: Respiratory protection not required.

Eye protection: Safety glasses. Ensure eye flushing at hand.

Skin protection: Protective clothing.

Hand protection: Handle with protective gloves.

Environmental: Prevent from entering into the immediate environment.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

State:	Liquid
Color:	Light yellow
Odor:	Odorless
pH :	No data available.
Evaporation Rate:	No data available
Oxidizing Properties:	No data available
Solubility in water:	Soluble in cold and warm water
Melting point/range °c:	No data available
Viscosity:	No data available
Boiling point/range °c:	No data available
Flammability (solid/gas):	No data available
Flammability (upper/lower) limit:	No data available
Flash point °c:	No data available
Auto-ignition temperature °c:	No data available
Relative density:	No data available
VOC g/l:	No data available
Partition coefficient: n-octanol/water:	No data available
Vapor pressure:	No data available
Explosive properties:	No data available

9.2 Other information: Not applicable.

10. STABILITY AND REACTIVITY

10.1 Reactivity

Stable under recommended transport or storage conditions.

10.2 Chemical stability
This product is chemically stable under normal conditions.

10.3 Possibility of hazardous reactions
Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid
Heat. Flames

10.5 Incompatible Materials
Strong oxidising agents. Strong reducing agents. Finely powdered metals.

10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Sulphur oxides, Copper oxides.
In the event of fire: see section 5.

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11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

Acute toxicity: No data available.

Skin contact: There may be mild irritation at the site of contact.

Eye contact : There may be irritation and redness.

Inhalation: No known significant effects or critical hazards.

Ingestion: There may be irritation of the throat.

Delayed / immediate effects: No data available.

Other information: Not applicable.

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity values: No data available.

12.2 Persistence and 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 product is not identified as a PBT/vPvB substance.

12.6 Other adverse effects: Toxic to soil and aquatic organisms.

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13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Disposal methods: Transfer to a suitable container and arrange for collection by licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber..

Disposal of packaging: Dispose of as normal industrial waste. Arrange for collection by specialised disposal company.
The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

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14. TRANSPORT INFORMATION

Transport class: This product does not require a classification for transport.

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15. REGULATORY INFORMATION

15.1 SARA reporting requirements:
SARA 302 Components
No chemicals in this material are subjected to the reporting requirements of SARA Title III, Section 302.
SARA 313 Components

The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No
Copper sulphate	7758-98-7

SARA 311/312 Hazards
Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No
Copper sulphate	7758-98-7

Pennsylvania Right To Know Components	CAS-No.
Copper sulphate	7758-98-7
Water	7732-18-5

New Jersey Right To Know Components	CAS-No.
Copper sulphate	7758-98-7
Water	7732-18-5

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm

15.2 Other EU Regulations:
Europe inventory: Not determined.
Black List Chemicals: Not listed.
Priority List Chemicals: Not listed.
Integrated pollution prevention and control list (IPPC) - Air: Not listed.
IPPC- Water: Not listed.

15.3 National regulations: Data not available

United States of America GHS

Chemical SARA 302, SARA 304, and SARA 313
TSCA Inventory Status: N/A
CERCLA Reporting Quantity (RQ): N/A
Other Federal Regulations: N/A

16. OTHER INFORMATION

Full text of the H-Statements and others used in section 2 and 3:

H302: Harmful if swallowed.
H315: Causes skin irritation.
H319: Causes serious eye irritation.
H400: Very toxic to aquatic life.
H410: Very toxic to aquatic life with long lasting effects.
R22: Harmful if swallowed.
R36/38: Irritating to eyes and skin.
R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

CLP = Classification, Labelling, and Packaging [Regulation (EC) No. 1272/2008]

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

Literature used in preparation of this GHS/SDS: Globally Harmonized System of Classification and Labelling of Chemicals (GHS), Fourth Revised Edition, United Nations, New York and Geneva, 2011

Legal disclaimer:
The above information is believed to be correct but does not purport to be all-inclusive and shall only be used as a guide. Innovex Biosciences, Inc. shall not be held liable for any damage resulting from contact or from handling the above product. Users should make their own investigations to determine the suitability of the information for their specific purposes.