

DENOVIX, INC.

Safety Data Sheet

DeNovix dsDNA Broad Range Dye (100x in DMSO)

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

1.1 Product identifier

Product name DeNovix dsDNA Broad Range Dye (100x in DMSO)

Other means of identification

Component 3 of 4 of KIT-DSDNA-BROAD-2 (2 x 1 mL), KIT-DSDNA-BROAD-1 (0.5 mL), or KIT-DSDNA-BROAD-E (100 uL)

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

For research use only

1.3 Details of the supplier of the safety data sheet

Name DeNovix, Inc.
Address 3411 Silverside Road
Hanby Building 101
Wilmington DE 19810
USA

Telephone 302-442-6911

1.4 Emergency telephone number

302-442-6911

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

This product does not meet the criteria for classification in any hazard class according to Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.

2.2 Label elements

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

This product does not meet the criteria for classification in any hazard class according to Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.

2.3 Other hazards

This product does not meet the criteria for classification in any hazard class according to Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.

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SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

1. Dimethyl sulfoxide

Concentration	90 - 100 % (weight)
EC no.	200-664-3
CAS no.	67-68-5

- Flammable liquids, Cat. 4

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes	Consult a physician. Show this safety data sheet to the doctor in attendance.
Following inhalation	If breathed in, move person into fresh air. If not breathing, give artificial respiration.
Following skin contact	Rinse with plenty of water. Get medical attention if irritation develops and persists.
Following eye contact	Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention/advice.
Following ingestion	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

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

5.2 Special hazards arising from the substance or mixture

Carbon oxides

Dimethyl sulfoxide: Carbon oxides, Sulphur oxides

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition.

6.3 Methods and material for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel). Keep in suitable, closed containers for disposal.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Keep away from sources of ignition - No smoking. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Light sensitive.

SECTION 8: Exposure controls/personal protection

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Individual protection measures, such as personal protective equipment

Eye and face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	Pale Yellow Liquid
Odour	No information available
Odour threshold	No information available
pH	No information available
Melting point/freezing point	No information available
Boiling point or initial boiling point and boiling range	No information available
Flash point	No information available
Evaporation rate	No information available
Flammability	No information available

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Lower and upper explosive limit	No information available
Vapour pressure	No information available
Relative vapour density	No information available
Density and/or relative density	No information available
Solubility	Soluble
Partition coefficient n-octanol/water (log value)	No information available
Auto-ignition temperature	No information available
Decomposition temperature	No information available
Kinematic viscosity	No information available

Additional properties

Physical state	Liquid
Colour	Pale Yellow

Particle characteristics

Not Applicable

9.2 Other information

9.2.1 Information with regard to physical hazard classes

No information available

9.2.2 Other safety characteristics

No information available

SECTION 10: Stability and reactivity

10.1 Reactivity

None under normal use conditions.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

None under normal use conditions.

10.4 Conditions to avoid

None under normal use conditions.

10.5 Incompatible materials

Strong oxidizing agents

Dimethyl sulfoxide: Acid chlorides, Phosphorus halides, Strong acids, Strong oxidizing agents, Strong reducing agents

10.6 Hazardous decomposition products

Other decomposition products - No data available

In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

ORAL LD50 rat 14,500 mg/kg

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INHALATION LC50 rat 4 h – 40250 ppm

DERMAL LD50 rabbit 5,000 mg/kg

Skin corrosion/irritation

No information available

Serious eye damage/irritation

No information available

Respiratory or skin sensitization

No information available

Germ cell mutagenicity

No information available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by IARC.

Reproductive toxicity

No information available

Summary of evaluation of the CMR properties

This solution contains a DNA-binding dye. In general, any DNA binding chemical should be regarded to be potentially mutagenic and thus be handled with caution. The complete toxicity profile of the dye is not known. Exercise caution when using this product by wearing gloves, goggles, and protective clothing.

Specific target organ toxicity (STOT) - single exposure

No information available

Specific target organ toxicity (STOT) - repeated exposure

No information available

Aspiration hazard

No information available

11.2 Information on other hazards

No information available

SECTION 12: Ecological information

12.1 Toxicity

No information available

12.2 Persistence and degradability

No information available

12.3 Bioaccumulative potential

No information available

12.4 Mobility in soil

No information available

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12.5 Results of PBT and vPvB assessment

No information available

12.6 Endocrine disrupting properties

No information available

12.7 Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product disposal

Products covered by this SDS, in their original form, when disposed as waste, are considered non hazardous waste. Disposal should be in accordance with local, state and federal regulations. Dispose of empty container in the trash or recycle where facilities exist.

Packaging disposal

Dispose of as unused product.

SECTION 14: Transport information

14.1 UN Number	None
14.2 UN Proper Shipping Name	None
14.3 Transport hazard class(es)	None
14.4 Packing group	None
14.5 Environmental hazards	None
14.6 Special precautions for user	None
14.7 Maritime transport in bulk according to IMO instruments	None

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

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.

Canadian Domestic Substances List (DSL)

Chemical name: Methane, sulfinylbis-

CAS: 67-68-5

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

New Jersey Right To Know Components

Common name: Dimethyl sulfoxide

CAS number: 67-68-5

Pennsylvania Right To Know Components

Common name: Dimethyl sulfoxide

CAS number: 67-68-5

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SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 311/312 Hazards

Fire Hazard, Chronic Health Hazard

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SECTION 16: Other information

Preparation information

DISCLAIMER:

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. DeNovix Inc. shall not be held liable for any damage resulting from handling or from contact with the above product