

# MATERIAL SAFETY DATA SHEET

DeNovix RNA Assay Buffer

VERSION NO.: 1.0  
MSDS DATE: 10/28/2019

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## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

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**PRODUCT NAME:** DeNovix RNA Assay Buffer  
**PRODUCT CODES:** Component 1 of 4 of RNA EVAL (12.5 mL), RNA-1 (62.5 mL) and RNA-2 (250 mL)

**MANUFACTURER:** DeNovix Inc.  
**ADDRESS:** 3411 Silverside Road  
Hanby Building 101  
Wilmington, DE 19810

**PHONE:** 1-302-442-6911

**PRODUCT USE:** For research use only  
**PREPARED BY:** DeNovix Inc.

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## SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

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**COMPONENT** No ingredients present at concentrations classified as hazardous to health or the environment.  
**Molecular Formula** Proprietary  
**Molecular Weight** Proprietary  
**CAS NO.** None

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## SECTION 3: HAZARDS IDENTIFICATION

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**OSHA HAZARDS** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA

**GHS CLASSIFICATION** Acute toxicity, Dermal (no data available)  
Eye irritation (no data available)  
Accute aquatic toxicity (no data available)

### LABELING, REGULATION (EC) No 1272/2008 CLP

**HAZARD PICTOGRAM** None  
**SIGNAL WORD** None  
**HAZARD STATEMENT** None  
**PRECAUTIONARY STATEMENTS** None

### HMIS CLASSIFICATION:

**HEALTH HAZARD** 0  
**FLAMMABILITY** 0  
**PHYSICAL HAZARDS** 0

### NFPA RATING:

**HEALTH HAZARDS** 0  
**FIRE** 0  
**REACTIVITY HAZARDS** 0

### POTENTIAL HEALTH EFFECTS:

**INHALATION** May be harmful if inhaled. May cause respiratory tract irritation.  
**SKIN** May be harmful if absorbed through skin. May cause skin irritation.  
**EYES** May cause eye irritation.  
**INGESTION** May be harmful if swallowed.

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## SECTION 4: FIRST AID MEASURES

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### GENERAL ADVICE:

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

### IF INHALED:

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

### IN CASE OF SKIN CONTACT

Wash off with soap and plenty of water. Consult a physician.

### IN CASE OF EYE CONTACT:

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

### IF SWALLOWED

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

# MATERIAL SAFETY DATA SHEET

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## SECTION 5: FIRE-FIGHTING MEASURES

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### SUITABLE EXTINGUISHING MEDIA

Use water spray, foam extinguishers, dry chemical or carbon dioxide.

### SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

Wear self contained breathing apparatus for fire fighting if necessary.

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

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### PERSONAL PRECAUTIONS

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

### ENVIRONMENTAL PRECAUTIONS

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

### METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

Contain spillage. Soak up spilled substance with inert absorbent material. Keep in suitable, closed containers for disposal.

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## SECTION 7: HANDLING AND STORAGE

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### PRECAUTIONS FOR SAFE HANDLING

Avoid inhalation of vapor or mist. Avoid direct contact with substance. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

### CONDITIONS FOR SAFE STORAGE

Keep container tightly closed in a dry and well-ventilated place. Store at 4°C.

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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**Contains no substances with occupational exposure limit values.**

### PERSONAL PROTECTIVE EQUIPMENT

#### RESPIRATORY PROTECTION

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or GEN (EU).

#### HAND 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.

#### EYE PROTECTION

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### SKIN AND BODY PROTECTION

Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### HYGIENE MEASURES

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

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# MATERIAL SAFETY DATA SHEET

DeNovix RNA Assay Buffer

VERSION NO.: 1.0  
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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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**APPEARANCE:** Pale blue liquid  
**ODOR:** No information available  
**PHYSICAL STATE:** Liquid  
**pH:** No information available  
**BOILING POINT:** No information available  
**FREEZING POINT:** No information available  
**VAPOR PRESSURE:** No information available  
**VAPOR DENSITY:** No information available  
**SPECIFIC GRAVITY:** No information available  
**EVAPORATION RATE:** No information available  
**SOLUBILITY IN WATER:** Soluble

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## SECTION 10: STABILITY AND REACTIVITY

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**STABILITY:** Stable under recommended storage conditions.  
**INCOMPATIBILITY:** No information available  
**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** No information available  
**CONDITIONS TO AVOID:** No information available

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## SECTION 11: TOXICOLOGICAL INFORMATION

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### TOXICOLOGICAL INFORMATION:

#### ACUTE TOXICITY

<b>ORAL LD50</b>	None
<b>INHALATION LC50</b>	None
<b>DERMAL LD50</b>	None

<b>OTHER INFORMATION ON ACUTE TOXICITY</b>	No data available
<b>SKIN CORROSION/IRRITATION</b>	No data available
<b>SERIOUS EYE DAMAGE/EYE IRRITATION</b>	No information available
<b>RESPIRATORY OR SKIN SENSITATION</b>	No information available
<b>GERM CELL MUTAGENICITY</b>	No information available

#### CARCINOGENICITY:

**IARC:** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

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

**NTP:** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

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

**REPRODUCTIVE TOXICITY** No data available  
**TERATOGENICITY** No data available  
**SPECIFIC TARGET ORGAN TOXICITY - single exposure (Globally Harmonized System)**  
No data available  
**SPECIFIC TARGET ORGAN TOXICITY - repeated exposure (Globally Harmonized System)**  
No data available  
**ASPIRATION HAZARD** No data available

#### POTENTIAL HEALTH EFFECTS

**INHALATION** May be harmful if inhaled. May cause respiratory tract irritation.  
**INGESTION** May be harmful if swallowed.  
**SKIN** May be harmful if absorbed through skin. May causes skin irritation.  
**EYES** May cause eye irritation.  
**SIGNS AND SYMPTOMS OF EXPOSURE** No data available  
**SYNERGISTIC EFFECTS** No data available

# MATERIAL SAFETY DATA SHEET

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## SECTION 12: ECOLOGICAL INFORMATION

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<b>TOXICITY</b>	No information available
<b>PERSISTENCE AND DEGRADABILITY</b>	No data available
<b>MOBILITY IN SOIL</b>	No data available
<b>PBT and vPvB ASSESSMENT</b>	No data available
<b>OTHER ADVERSE EFFECTS</b>	No data available

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## SECTION 13: DISPOSAL CONSIDERATIONS

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<b>WASTE DISPOSAL METHOD:</b>	
<b>PRODUCT</b>	Do not dispose product into sewage. Consult local, state or national regulation for proper disposal.
<b>CONTAMINATED PACKAGING</b>	Dispose of as unused product.

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## SECTION 14: TRANSPORT INFORMATION

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<b>DOT (US)</b>	Not dangerous goods
<b>IMDG</b>	Not dangerous goods
<b>IATA</b>	Not dangerous goods

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## SECTION 15: REGULATORY INFORMATION

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<b>OSHA HAZARDS</b>	No data available
<b>SARA 302 COMPONENTS</b>	SARA 302: No chemicals found.
<b>SARA 313 COMPONENTS</b>	SARA 313: No chemicals found.
<b>SARA 311/312 HAZARDS</b>	No chemicals found.

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## SECTION 16: OTHER INFORMATION

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### 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. This material is sold for research purposes only and is not required to appear on the TSCA inventory. 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.

# MATERIAL SAFETY DATA SHEET

DeNovix RNA Assay Dye

VERSION NO.: 1.0  
MSDS DATE: 10/28/2019

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## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

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**PRODUCT NAME:** DeNovix RNA Quantitation Dye (200X in DMSO)  
**PRODUCT CODES:** Component 2 of 4 of RNA EVAL (50 uL), RNA-1 (250 uL) and RNA-2 (1.0 mL)

**MANUFACTURER:** DeNovix Inc.  
**ADDRESS:** 3411 Silverside Road  
Hanby Building 101  
Wilmington, DE 19810

**PHONE:** 1-302-442-6911

**PRODUCT USE:** For research use only  
**PREPARED BY:** DeNovix Inc.

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## SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

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**COMPONENT** Dimethylsulfoxide (DMSO)

**CAS NO.** 67-68-5  
**EC NO** 200-664-3  
**Weight** >99%

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## SECTION 3: HAZARDS IDENTIFICATION

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**CLASSIFICATION according to DIRECTIVE 1999/45/EC**  
None

**CLASSIFICATION according to REGULATION (EC) No 1272/2008[CLP]**  
None

**LABELING, REGULATION (EC) No 1272/2008 CLP**

**HAZARD PICTOGRAM** None  
**SIGNAL WORD** None  
**HAZARD STATEMENT** None  
**PRECAUTIONARY STATEMENTS** None

**HMIS CLASSIFICATION:**

**NFPA RATING:**

<b>HEALTH HAZARD</b>	0	<b>HEALTH HAZARDS</b>	0
<b>FLAMMABILITY</b>	2	<b>FIRE</b>	2
<b>PHYSICAL HAZARDS</b>	0	<b>REACTIVITY HAZARDS</b>	0

**POTENTIAL HEALTH EFFECTS:**

**INHALATION** May be harmful if inhaled. May cause respiratory tract irritation.  
**SKIN** May be harmful if absorbed through skin. May cause skin irritation.  
**EYES** May cause eye irritation.  
**INGESTION** May be harmful if swallowed.

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## SECTION 4: FIRST AID MEASURES

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**GENERAL ADVICE:**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**IF INHALED:**

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

**IN CASE OF SKIN CONTACT**

Wash off with soap and plenty of water. Consult a physician.

**IN CASE OF EYE CONTACT:**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**IF SWALLOWED**

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

# MATERIAL SAFETY DATA SHEET

DeNovix RNA Assay Dye

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## SECTION 5: FIRE-FIGHTING MEASURES

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### SUITABLE EXTINGUISHING MEDIA

Use water spray, foam extinguishers, dry chemical or carbon dioxide.

### SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

Wear self contained breathing apparatus for fire fighting if necessary.

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

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### PERSONAL PRECAUTIONS

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

### ENVIRONMENTAL PRECAUTIONS

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

### METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

Contain spillage. Soak up spilled substance with inert absorbent material. Keep in suitable, closed containers for disposal.

---

## SECTION 7: HANDLING AND STORAGE

---

### 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. Normal measures for preventive fire protection.

### CONDITIONS FOR SAFE STORAGE

Keep container tightly closed in a dry and well-ventilated place. Store at 4°C.

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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Contains no substances with occupational exposure limit values.

### PERSONAL PROTECTIVE EQUIPMENT

#### RESPIRATORY PROTECTION

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### HAND 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.

#### EYE PROTECTION

Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### SKIN AND BODY PROTECTION

Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### HYGIENE MEASURES

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

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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**APPEARANCE:** Blue liquid  
**ODOR:** No information available

# MATERIAL SAFETY DATA SHEET

DeNovix RNA Assay Dye

VERSION NO.: 1.0  
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**PHYSICAL STATE:** Liquid  
**pH:** No information available  
**BOILING POINT:** No information available  
**FREEZING POINT:** No information available  
**VAPOR PRESSURE:** No information available  
**VAPOR DENSITY:** No information available  
**SPECIFIC GRAVITY:** No information available  
**EVAPORATION RATE:** No information available  
**SOLUBILITY IN WATER:** Soluble

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## SECTION 10: STABILITY AND REACTIVITY

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**STABILITY:** Stable under recommended storage conditions.  
**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** Hazardous decomposition products formed under fire conditions – carbon dioxides  
**CONDITIONS TO AVOID:** Heat, flames and sparks

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## SECTION 11: TOXICOLOGICAL INFORMATION

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### TOXICOLOGICAL INFORMATION:

#### ACUTE TOXICITY

<b>ORAL LD50</b>	rat	14,500 mg/kg
<b>INHALATION LC50</b>	rat	4 h – 40250 ppm
<b>DERMAL LD50</b>	rabbit	> 5,000 mg/kg

<b>OTHER INFORMATION ON ACUTE TOXICITY</b>	No data available
<b>SKIN CORROSION/IRRITATION</b>	No data available
<b>SERIOUS EYE DAMAGE/EYE IRRITATION</b>	No information available
<b>RESPIRATORY OR SKIN SENSITATION</b>	No information available
<b>GERM CELL MUTAGENICITY</b>	Salmonella typhimurium assay (Ames test): negative (+/- activation), DMSO is used as a neutral solvent in the Ames mutagen test

#### CARCINOGENICITY:

**IARC:** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

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

**NTP:** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

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

**REPRODUCTIVE TOXICITY** Not considered to be directly embryotoxic and has been shown to be a successful cryoprotectant for mammalian semen and embryos

**TERATOGENICITY** No data available

**SPECIFIC TARGET ORGAN TOXICITY - single exposure (Globally Harmonized System)**

No data available

**SPECIFIC TARGET ORGAN TOXICITY - repeated exposure (Globally Harmonized System)**

No data available

**ASPIRATION HAZARD**

No data available

**ADDITIONAL INFORMATION**

RTECS: PV6210000 (DMSO)

#### POTENTIAL HEALTH EFFECTS

**INHALATION** May be harmful if inhaled. May cause respiratory tract irritation.

**INGESTION** May be harmful if swallowed.

**SKIN** May be harmful if absorbed through skin. May cause skin irritation.

**EYES** May cause eye irritation.

**SIGNS AND SYMPTOMS OF EXPOSURE** No data available

**SYNERGISTIC EFFECTS** No data available

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## SECTION 12: ECOLOGICAL INFORMATION

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**TOXICITY** LC50 (96 hrs) for 10 species of fish ranges from 32500 to 43000 ppm

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<b>PERSISTENCE AND DEGRADABILITY</b>	No information available
<b>BIODEGRADATION</b>	No information available
<b>MOBILITY IN SOIL</b>	No data available
<b>PBT and vPvB ASSESSMENT</b>	No data available
<b>OTHER ADVERSE EFFECTS</b>	No data available

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## SECTION 13: DISPOSAL CONSIDERATIONS

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<b>PRODUCT</b>	Do not dispose product into sewage. Consult local, state or national regulation for proper disposal.
<b>CONTAMINATED PACKAGING</b>	Dispose of as unused product.

---

## SECTION 14: TRANSPORT INFORMATION

---

<b>DOT (US)</b>	Not dangerous goods
<b>IMDG</b>	Not dangerous goods
<b>IATA</b>	Not dangerous goods

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## SECTION 15: REGULATORY INFORMATION

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<b>OSHA HAZARDS</b>	No data available
<b>SARA 302 COMPONENTS</b>	SARA 302: No chemicals found.
<b>SARA 313 COMPONENTS</b>	SARA 313: No chemicals found.
<b>SARA 311/312 HAZARDS</b>	No chemicals found.

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## SECTION 16: OTHER 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. This material is sold for research purposes only and is not required to appear on the TSCA inventory. 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.



# MATERIAL SAFETY DATA SHEET

DeNovix RNA Assay Standards

VERSION NO.: 1.0  
MSDS DATE: 10/28/2019

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## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

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**PRODUCT NAME:** DeNovix RNA Standard 100 ng/uL and 0 ng/uL  
**PRODUCT CODES:** Components 3 and 4 of 4  
100 ng/uL - RNA EVAL (100 uL), RNA-1 (400 uL) and RNA-2 (4x400 uL)  
0 ng/uL - RNA EVAL (0.5 mL), RNA-1 (0.5 mL) and RNA-2 (2.0 mL)

**MANUFACTURER:** DeNovix Inc.  
**ADDRESS:** 3411 Silverside Road  
Hanby Building 101  
Wilmington, DE 19810

**PHONE:** 1-302-442-6911

**PRODUCT USE:** For research use only  
**PREPARED BY:** DeNovix Inc.

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## SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

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**COMPONENT CAS NO.** No ingredients present at concentrations classified as hazardous to health or the environment.  
None

---

## SECTION 3: HAZARDS IDENTIFICATION

---

**OSHA HAZARDS** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA

**GHS CLASSIFICATION** Acute toxicity, Dermal (no data available)  
Eye irritation (no data available)  
Accute aquatic toxicity (no data available)

### LABELING, REGULATION (EC) No 1272/2008 CLP

**HAZARD PICTOGRAM** None  
**SIGNAL WORD** None  
**HAZARD STATEMENT** None  
**PRECAUTIONARY STATEMENTS** None

<b>HMIS CLASSIFICATION:</b>		<b>NFPA RATING:</b>	
<b>HEALTH HAZARD</b>	0	<b>HEALTH HAZARDS</b>	0
<b>FLAMMABILITY</b>	0	<b>FIRE</b>	0
<b>PHYSICAL HAZARDS</b>	0	<b>REACTIVITY HAZARDS</b>	0

### POTENTIAL HEALTH EFFECTS:

**INHALATION** May be harmful if inhaled. May cause respiratory tract irritation.  
**SKIN** May be harmful if absorbed through skin. May cause skin irritation.  
**EYES** May cause eye irritation.  
**INGESTION** May be harmful if swallowed.

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## SECTION 4: FIRST AID MEASURES

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**GENERAL ADVICE:**  
Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.  
**IF INHALED:**  
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.  
**IN CASE OF SKIN CONTACT**  
Wash off with soap and plenty of water. Consult a physician.

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## IN CASE OF EYE CONTACT:

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

## IF SWALLOWED

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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## SECTION 5: FIRE-FIGHTING MEASURES

---

### SUITABLE EXTINGUISHING MEDIA

Use water spray, foam extinguishers, dry chemical or carbon dioxide.

### SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

Wear self contained breathing apparatus for fire fighting if necessary.

---

## SECTION 6: ACCIDENTAL RELEASE MEASURES

---

### PERSONAL PRECAUTIONS

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

### ENVIRONMENTAL PRECAUTIONS

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

### METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

Contain spillage. Soak up spilled substance with inert absorbent material. Keep in suitable, closed containers for disposal.

---

## SECTION 7: HANDLING AND STORAGE

---

### 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. Normal measures for preventive fire protection.

### CONDITIONS FOR SAFE STORAGE

Keep container tightly closed in a dry and well-ventilated place. Store 100 ng/uL RNA Standard at -20°C. Store 0 ng/uL RNA Standard at 4°C.

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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Contains no substances with occupational exposure limit values.

### PERSONAL PROTECTIVE EQUIPMENT

#### RESPIRATORY PROTECTION

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### HAND 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.

#### EYE PROTECTION

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### SKIN AND BODY PROTECTION

Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### HYGIENE MEASURES

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

# MATERIAL SAFETY DATA SHEET

DeNovix RNA Assay Standards

VERSION NO.: 1.0  
MSDS DATE: 10/28/2019

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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**APPEARANCE:** Clear liquid  
**ODOR:** No information available  
**PHYSICAL STATE:** Liquid  
**pH:** No information available  
**BOILING POINT:** No information available  
**FREEZING POINT:** No information available  
**VAPOR PRESSURE:** No information available  
**VAPOR DENSITY:** No information available  
**SPECIFIC GRAVITY:** No information available  
**EVAPORATION RATE:** No information available  
**SOLUBILITY IN WATER:** Soluble

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## SECTION 10: STABILITY AND REACTIVITY

---

**STABILITY:** Stable under recommended storage conditions.  
**INCOMPATIBILITY:** No information available  
**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** No information available  
**CONDITIONS TO AVOID:** No information available

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## SECTION 11: TOXICOLOGICAL INFORMATION

---

### TOXICOLOGICAL INFORMATION:

#### ACUTE TOXICITY

<b>ORAL LD50</b>	None
<b>INHALATION LC50</b>	None
<b>DERMAL LD50</b>	None

<b>OTHER INFORMATION ON ACUTE TOXICITY</b>	No data available
<b>SKIN CORROSION/IRRITATION</b>	No data available
<b>SERIOUS EYE DAMAGE/EYE IRRITATION</b>	No information available
<b>RESPIRATORY OR SKIN SENSITATION</b>	No information available
<b>GERM CELL MUTAGENICITY</b>	No information available

#### CARCINOGENICITY:

**IARC:** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.  
**ACGIH:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.  
**NTP:** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.  
**OSHA:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**REPRODUCTIVE TOXICITY** No data available  
**TERATOGENICITY** No data available  
**SPECIFIC TARGET ORGAN TOXICITY - single exposure (Globally Harmonized System)**  
No data available  
**SPECIFIC TARGET ORGAN TOXICITY - repeated exposure (Globally Harmonized System)**  
No data available  
**ASPIRATION HAZARD** No data available

#### POTENTIAL HEALTH EFFECTS

**INHALATION** May be harmful if inhaled. May cause respiratory tract irritation.  
**INGESTION** May be harmful if swallowed.  
**SKIN** May be harmful if absorbed through skin. May cause skin irritation.  
**EYES** May cause eye irritation.  
**SIGNS AND SYMPTOMS OF EXPOSURE** No data available  
**SYNERGISTIC EFFECTS** No data available

# MATERIAL SAFETY DATA SHEET

DeNovix RNA Assay Standards

VERSION NO.: 1.0  
MSDS DATE: 10/28/2019

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## SECTION 12: ECOLOGICAL INFORMATION

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<b>TOXICITY</b>	No information available
<b>PERSISTENCE AND DEGRADABILITY</b>	No information available
<b>MOBILITY IN SOIL</b>	No data available
<b>PBT and vPvB ASSESSMENT</b>	No data available
<b>OTHER ADVERSE EFFECTS</b>	No data available

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## SECTION 13: DISPOSAL CONSIDERATIONS

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### WASTE DISPOSAL METHOD:

<b>PRODUCT</b>	Do not dispose product into sewage. Consult local, state or national regulation for proper disposal.
<b>CONTAMINATED PACKAGING</b>	Dispose of as unused product.

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## SECTION 14: TRANSPORT INFORMATION

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<b>DOT (US)</b>	Not dangerous goods
<b>IMDG</b>	Not dangerous goods
<b>IATA</b>	Not dangerous goods

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## SECTION 15: REGULATORY INFORMATION

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<b>OSHA HAZARDS</b>	No data available
<b>SARA 302 COMPONENTS</b>	SARA 302: No chemicals found.
<b>SARA 313 COMPONENTS</b>	SARA 313: No chemicals found.
<b>SARA 311/312 HAZARDS</b>	No chemicals found.

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## SECTION 16: OTHER INFORMATION

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### 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. This material is sold for research purposes only and is not required to appear on the TSCA inventory. 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.