

## **#EA001 Duplex-specific nuclease**

DSN enzyme, lyophilized, 50 Kunitz-units  
DSN storage buffer  
10x DSN master buffer  
2x DSN stop solution  
Control template

**SAFETY DATA SHEET**

according to Regulation (EC) No.1907/2006

Revision Date: 01.02.2012

Print Date: 25.04.2018

GENERIC EU MSDS - NO COUNTRY SPECIFIC DATA

**1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**
**1.1 Product identifier**

Product name: DSN enzyme, lyophilized, 50 Kunitz-units  
 Product number: N/A  
 Kit name: Duplex-specific nuclease  
 Kit number: EA001  
 Brand: Evrogen

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

Identified uses: Laboratory chemicals, FOR RESEARCH USE ONLY

**1.3 Details of the supplier of the safety data sheet**

Company: Evrogen JSC  
 Miklukho-Maklaya str, 16/10,  
 117997, Moscow, Russia  
 Telephone: +7(495)988-4084  
 Fax: +7(495)988-4085  
 Email address: evrogen@evrogen.com

**2. HAZARDS IDENTIFICATION**
**2.1 Classification of the substance or mixture**

Not a dangerous substance according to GHS.

This substance is not classified as dangerous according to Directive 67/548/EEC.

**2.2 Label elements**

This product does not need to be labeled in accordance with EC directives or respective national laws.

**2.3 Other hazards** none

**3. COMPOSITION/INFORMATION OF INGREDIENTS**
**3.1 Chemical characterization**

**Description:** Lyophilized substance, consisting of the following components.

Component:	CAS-No:	Concentration:
Duplex-specific nuclease	no data available	not applicable

**4. FIRST AID MEASURES**
**4.1 Description of first aid measures**
**If inhaled**

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

**In case of skin contact**

Wash off with soap and plenty of water.

**If swallowed**

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

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

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

#### **4.3 Indication of 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**

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

#### **5.2 Special hazards arising from the substance or mixture**

Nature of decomposition products not known.

#### **5.3 Precautions for fire-fighters**

Wear self contained breathing apparatus for fire fighting if necessary.

#### **5.4 Further information**

no data available

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### **6. ACCIDENTAL RELEASE MEASURES**

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

Avoid dust formation. Avoid breathing vapors, mist or gas.

#### **6.2 Environmental precautions**

Do not let product enter drains.

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

Sweep up and shovel. Keep in suitable, closed containers for disposal.

#### **6.4 Reference to other sections**

For disposal see section 13.

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### **7. HANDLING AND STORAGE**

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

Provide appropriate exhaust ventilation at places where dust is formed.

Normal measures for preventive fire protection.

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

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

Recommended storage temperature: -20 °C

#### **7.3 Specific end uses**

No further relevant information available

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### **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### **8.1 Control parameters**

##### **Ingredients with limit values that require monitoring at the workplace**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

##### **Additional information**

The lists valid during the making were used as basis.

#### **8.2 Exposure controls**

##### **Personal protective equipment:**

##### **General protective and hygienic measures**

The usual precautionary measures are to be adhered to when handling chemicals.

##### **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).

##### **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.  
The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

### **Eye protection**

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

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## **9. PHYSICAL AND CHEMICAL PROPERTIES**

### **9.1 Information on basic physical and chemical properties**

Appearance	Form: Lyophilized
	Colour: White
Odour:	Characteristic
Odour threshold	no data available
pH	no data available
Melting/freezing point	no data available
Initial boiling point and boiling range	no data available
Flash point	no data available
Evaporation rate	no data available
Flammability (solid, gas)	no data available
Upper/lower flammability or explosive limits	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available
Water solubility	no data available
Partition coefficient: noctanol/water	no data available
Autoignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available

### **9.2 Other safety information**

no data available

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## **10. STABILITY AND REACTIVITY**

### **10.1 Reactivity**

no data available

### **10.2 Chemical stability**

no data available

### **10.3 Possibility of hazardous reactions**

No dangerous reactions known

### **10.4 Conditions to avoid**

no data available

### **10.5 Incompatible materials**

no data available

### **10.6 Hazardous decomposition products**

No dangerous decomposition products known

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## **11. TOXICOLOGICAL INFORMATION**

### **11.1 Information on toxicological effects**

**Acute toxicity:** no data available  
**Primary irritant effect on the skin:** not determined  
**Primary irritant effect on the eye:** not determined  
**Sensitization:** No sensitizing effects known.  
**Signs and Symptoms of Exposure:**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**Additional toxicological information:**

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

The product is not subject to classification according to the latest version of the EU lists.

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## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

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

no data available

### 12.6 Other adverse effects

no data available

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## 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

**Product:**

**General advice:** The product has to be disposed of as laboratory chemical in accordance with local regulations.

**Uncleaned packaging:**

Recommendation: Disposal must be made according to official regulations.

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## 14. TRANSPORT INFORMATION

### 14.1 UN-Number

ADR/RID: -

IMDG: -

IATA: -

### 14.2 UN proper shipping name

ADR/RID: - Not dangerous goods

IMDG: - Not dangerous goods

IATA: - Not dangerous goods

### 14.3 Transport hazard class(es)

ADR/RID: -

IMDG: -

IATA: -

### 14.4 Packaging group

ADR/RID: -

IMDG: -

IATA: -

### 14.5 Environmental hazards

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

### 14.6 Special precautions for users

no data available

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## 15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

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

no data available

**15.2 Chemical Safety Assessment**

no data available

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**16. OTHER INFORMATION**

**Further information**

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. Evrogen shall not be held liable for any damage resulting from handling or from contact with the above product.

**SAFETY DATA SHEET**

according to Regulation (EC) No.1907/2006

Revision Date: 01.02.2012

Print Date: 25.04.2018

GENERIC EU MSDS - NO COUNTRY SPECIFIC DATA

**1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**
**1.1 Product identifier**

Product name: DSN storage buffer  
 Product number: N/A  
 Kit name: Duplex-specific nuclease  
 Kit number: EA001  
 Brand: Evrogen

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

Identified uses: Laboratory chemicals, FOR RESEARCH USE ONLY

**1.3 Details of the supplier of the safety data sheet**

Company: Evrogen JSC  
 Miklukho-Maklaya str, 16/10,  
 117997, Moscow, Russia  
 Telephone: +7(495)988-4084  
 Fax: +7(495)988-4085  
 Email address: evrogen@evrogen.com

**2. HAZARDS IDENTIFICATION**
**2.1 Classification of the substance or mixture**

Not a dangerous substance according to GHS.

This substance is not classified as dangerous according to Directive 67/548/EEC.

**2.2 Label elements**

This product does not need to be labeled in accordance with EC directives or respective national laws.

**2.3 Other hazards** none

**3. COMPOSITION/INFORMATION OF INGREDIENTS**
**3.1 Chemical characterization**

**Description:** Solution, consisting of the following components.

Component:	CAS-No:	Concentration:
water	7732-18-5	>90%
Tris (hydroxymethyl) aminomethane hydrochloride	1185-53-1	<1%

**4. FIRST AID MEASURES**
**4.1 Description of first aid measures**
**If inhaled**

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

**In case of skin contact**

Wash off with soap and plenty of water.

**If swallowed**

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

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

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**4.3 Indication of 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**

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

**5.2 Special hazards arising from the substance or mixture**

Nature of decomposition products not known.

**5.3 Precautions for fire-fighters**

Wear self contained breathing apparatus for fire fighting if necessary.

**5.4 Further information**

no data available

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**6. ACCIDENTAL RELEASE MEASURES**

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

Avoid dust formation. Avoid breathing vapors, mist or gas.

**6.2 Environmental precautions**

Do not let product enter drains.

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

Sweep up and shovel. Keep in suitable, closed containers for disposal.

**6.4 Reference to other sections**

For disposal see section 13.

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**7. HANDLING AND STORAGE**

**7.1 Precautions for safe handling**

Provide appropriate exhaust ventilation at places where dust is formed.

Normal measures for preventive fire protection.

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

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

Recommended storage temperature: -20 °C

**7.3 Specific end uses**

No further relevant information available

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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1 Control parameters**

**Ingredients with limit values that require monitoring at the workplace**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

**Additional information**

The lists valid during the making were used as basis.

**8.2 Exposure controls**

**Personal protective equipment:**

**General protective and hygienic measures**

The usual precautionary measures are to be adhered to when handling chemicals.

**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).



### **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.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

### **Eye protection**

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

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## **9. PHYSICAL AND CHEMICAL PROPERTIES**

### **9.1 Information on basic physical and chemical properties**

Appearance	Form: Liquid
	Colour: Colourless
Odour:	Characteristic
Odour threshold	no data available
pH	no data available
Melting/freezing point	no data available
Initial boiling point and boiling range	no data available
Flash point	no data available
Evaporation rate	no data available
Flammability (solid, gas)	no data available
Upper/lower flammability or explosive limits	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available
Water solubility	no data available
Partition coefficient: octanol/water	no data available
Autoignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available

### **9.2 Other safety information**

no data available

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## **10. STABILITY AND REACTIVITY**

### **10.1 Reactivity**

no data available

### **10.2 Chemical stability**

no data available

### **10.3 Possibility of hazardous reactions**

No dangerous reactions known

### **10.4 Conditions to avoid**

no data available

### **10.5 Incompatible materials**

no data available

### **10.6 Hazardous decomposition products**

No dangerous decomposition products known

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## **11. TOXICOLOGICAL INFORMATION**

## 11.1 Information on toxicological effects

**Acute toxicity:** no data available

**Primary irritant effect on the skin:** not determined

**Primary irritant effect on the eye:** not determined

**Sensitization:** No sensitizing effects known.

**Signs and Symptoms of Exposure:**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**Additional toxicological information:**

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

The product is not subject to classification according to the latest version of the EU lists.

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## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

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

no data available

### 12.6 Other adverse effects

no data available

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## 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

**Product:**

**General advice:** The product has to be disposed of as laboratory chemical in accordance with local regulations.

**Uncleaned packaging:**

Recommendation: Disposal must be made according to official regulations.

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## 14. TRANSPORT INFORMATION

### 14.1 UN-Number

ADR/RID: -

IMDG: -

IATA: -

### 14.2 UN proper shipping name

ADR/RID: - Not dangerous goods

IMDG: - Not dangerous goods

IATA: - Not dangerous goods

### 14.3 Transport hazard class(es)

ADR/RID: -

IMDG: -

IATA: -

### 14.4 Packaging group

ADR/RID: -

IMDG: -

IATA: -

### 14.5 Environmental hazards

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

### 14.6 Special precautions for users

no data available

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**15. REGULATORY INFORMATION**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

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

no data available

**15.2 Chemical Safety Assessment**

no data available

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**16. OTHER INFORMATION****Further information**

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. Evrogen shall not be held liable for any damage resulting from handling or from contact with the above product.

**SAFETY DATA SHEET**

according to Regulation (EC) No.1907/2006

Revision Date: 01.08.2011

Print Date: 25.04.2018

GENERIC EU MSDS - NO COUNTRY SPECIFIC DATA

**1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**
**1.1 Product identifier**

Product name: 10x DSN master buffer  
 Product number: N/A  
 Kit name: Duplex-specific nuclease  
 Kit number: EA001  
 Brand: Evrogen

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

Identified uses: Laboratory chemicals, FOR RESEARCH USE ONLY

**1.3 Details of the supplier of the safety data sheet**

Company: Evrogen JSC  
 Miklukho-Maklaya str, 16/10,  
 117997, Moscow, Russia  
 Telephone: +7(495)988-4084  
 Fax: +7(495)988-4085  
 Email address: evrogen@evrogen.com

**2. HAZARDS IDENTIFICATION**
**2.1 Classification of the substance or mixture**

Not a dangerous substance according to GHS.

This substance is not classified as dangerous according to Directive 67/548/EEC.

**2.2 Label elements**

This product does not need to be labeled in accordance with EC directives or respective national laws.

**2.3 Other hazards** none

**3. COMPOSITION/INFORMATION OF INGREDIENTS**
**3.1 Chemical characterization**

**Description:** Solution, consisting of the following components.

Component:	CAS-No:	Concentration:
water	7732-18-5	>90%
Tris (hydroxymethyl) aminomethane hydrochloride	1185-53-1	<10%
magnesium chloride	7786-30-3	<1%
dithiothreitol	3483-12-3	<1%

**4. FIRST AID MEASURES**
**4.1 Description of first aid measures**
**If inhaled**

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

**In case of skin contact**

Wash off with soap and plenty of water.

**If swallowed**

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

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

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

#### **4.3 Indication of 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**

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

#### **5.2 Special hazards arising from the substance or mixture**

Nature of decomposition products not known.

#### **5.3 Precautions for fire-fighters**

Wear self contained breathing apparatus for fire fighting if necessary.

#### **5.4 Further information**

no data available

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### **6. ACCIDENTAL RELEASE MEASURES**

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

Avoid dust formation. Avoid breathing vapors, mist or gas.

#### **6.2 Environmental precautions**

Do not let product enter drains.

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

Sweep up and shovel. Keep in suitable, closed containers for disposal.

#### **6.4 Reference to other sections**

For disposal see section 13.

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### **7. HANDLING AND STORAGE**

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

Provide appropriate exhaust ventilation at places where dust is formed.

Normal measures for preventive fire protection.

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

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

Recommended storage temperature: -20 °C

#### **7.3 Specific end uses**

No further relevant information available

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### **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### **8.1 Control parameters**

##### **Ingredients with limit values that require monitoring at the workplace**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

##### **Additional information**

The lists valid during the making were used as basis.

#### **8.2 Exposure controls**

##### **Personal protective equipment:**

##### **General protective and hygienic measures**

The usual precautionary measures are to be adhered to when handling chemicals.

##### **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).

### **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.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

### **Eye protection**

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

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## **9. PHYSICAL AND CHEMICAL PROPERTIES**

### **9.1 Information on basic physical and chemical properties**

Appearance	Form: Liquid
	Colour: Colourless
Odour:	Characteristic
Odour threshold	no data available
pH	no data available
Melting/freezing point	no data available
Initial boiling point and boiling range	no data available
Flash point	no data available
Evaporation rate	no data available
Flammability (solid, gas)	no data available
Upper/lower flammability or explosive limits	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available
Water solubility	no data available
Partition coefficient: octanol/water	no data available
Autoignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available

### **9.2 Other safety information**

no data available

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## **10. STABILITY AND REACTIVITY**

### **10.1 Reactivity**

no data available

### **10.2 Chemical stability**

no data available

### **10.3 Possibility of hazardous reactions**

No dangerous reactions known

### **10.4 Conditions to avoid**

no data available

### **10.5 Incompatible materials**

no data available

### **10.6 Hazardous decomposition products**

No dangerous decomposition products known

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## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

**Acute toxicity:** no data available

**Primary irritant effect on the skin:** not determined

**Primary irritant effect on the eye:** not determined

**Sensitization:** No sensitizing effects known.

**Signs and Symptoms of Exposure:**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**Additional toxicological information:**

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

The product is not subject to classification according to the latest version of the EU lists.

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## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

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

no data available

### 12.6 Other adverse effects

no data available

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## 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

**Product:**

**General advice:** The product has to be disposed of as laboratory chemical in accordance with local regulations.

**Uncleaned packaging:**

Recommendation: Disposal must be made according to official regulations.

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## 14. TRANSPORT INFORMATION

### 14.1 UN-Number

ADR/RID: -

IMDG: -

IATA: -

### 14.2 UN proper shipping name

ADR/RID: -

Not dangerous goods

IMDG: -

Not dangerous goods

IATA: -

Not dangerous goods

### 14.3 Transport hazard class(es)

ADR/RID: -

IMDG: -

IATA: -

### 14.4 Packaging group

ADR/RID: -

IMDG: -

IATA: -

### 14.5 Environmental hazards

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

#### **14.6 Special precautions for users**

no data available

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### **15. REGULATORY INFORMATION**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

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

no data available

#### **15.2 Chemical Safety Assessment**

no data available

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### **16. OTHER INFORMATION**

#### **Further information**

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. Evrogen shall not be held liable for any damage resulting from handling or from contact with the above product.



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according to Regulation (EC) No.1907/2006

Revision Date: 01.08.2011

Print Date: 25.04.2018

GENERIC EU MSDS - NO COUNTRY SPECIFIC DATA

**1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**
**1.1 Product identifier**

Product name: 2x DSN stop solution  
 Product number: N/A  
 Kit name: Duplex-specific nuclease  
 Kit number: EA001  
 Brand: Evrogen

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

Identified uses: Laboratory chemicals, FOR RESEARCH USE ONLY

**1.3 Details of the supplier of the safety data sheet**

Company: Evrogen JSC  
 Miklukho-Maklaya str, 16/10,  
 117997, Moscow, Russia  
 Telephone: +7(495)988-4084  
 Fax: +7(495)988-4085  
 Email address: evrogen@evrogen.com

**2. HAZARDS IDENTIFICATION**
**2.1 Classification of the substance or mixture**

Not a dangerous substance according to GHS.

This substance is not classified as dangerous according to Directive 67/548/EEC.

**2.2 Label elements**

This product does not need to be labeled in accordance with EC directives or respective national laws.

**2.3 Other hazards** none

**3. COMPOSITION/INFORMATION OF INGREDIENTS**
**3.1 Chemical characterization**

**Description:** Solution, consisting of the following components.

Component:	CAS-No:	Concentration:
water	7732-18-5	>90%
ethylenediaminetetraacetic acid disodium dihydrate	6381-92-6	<1%

**4. FIRST AID MEASURES**
**4.1 Description of first aid measures**
**If inhaled**

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

**In case of skin contact**

Wash off with soap and plenty of water.

**If swallowed**

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

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

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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

no data available

---

### **5. FIRE-FIGHTING 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**

Nature of decomposition products not known.

#### **5.3 Precautions for fire-fighters**

Wear self contained breathing apparatus for fire fighting if necessary.

#### **5.4 Further information**

no data available

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### **6. ACCIDENTAL RELEASE MEASURES**

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

Avoid dust formation. Avoid breathing vapors, mist or gas.

#### **6.2 Environmental precautions**

Do not let product enter drains.

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

Sweep up and shovel. Keep in suitable, closed containers for disposal.

#### **6.4 Reference to other sections**

For disposal see section 13.

---

### **7. HANDLING AND STORAGE**

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

Provide appropriate exhaust ventilation at places where dust is formed.

Normal measures for preventive fire protection.

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

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

Recommended storage temperature: -20 °C

#### **7.3 Specific end uses**

No further relevant information available

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### **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### **8.1 Control parameters**

##### **Ingredients with limit values that require monitoring at the workplace**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

##### **Additional information**

The lists valid during the making were used as basis.

#### **8.2 Exposure controls**

##### **Personal protective equipment:**

##### **General protective and hygienic measures**

The usual precautionary measures are to be adhered to when handling chemicals.

##### **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).

### **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.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

### **Eye protection**

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

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## **9. PHYSICAL AND CHEMICAL PROPERTIES**

### **9.1 Information on basic physical and chemical properties**

Appearance	Form: Liquid
	Colour: Colourless
Odour:	Characteristic
Odour threshold	no data available
pH	no data available
Melting/freezing point	no data available
Initial boiling point and boiling range	no data available
Flash point	no data available
Evaporation rate	no data available
Flammability (solid, gas)	no data available
Upper/lower flammability or explosive limits	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available
Water solubility	no data available
Partition coefficient: octanol/water	no data available
Autoignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available

### **9.2 Other safety information**

no data available

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## **10. STABILITY AND REACTIVITY**

### **10.1 Reactivity**

no data available

### **10.2 Chemical stability**

no data available

### **10.3 Possibility of hazardous reactions**

No dangerous reactions known

### **10.4 Conditions to avoid**

no data available

### **10.5 Incompatible materials**

no data available

### **10.6 Hazardous decomposition products**

No dangerous decomposition products known

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## **11. TOXICOLOGICAL INFORMATION**

## 11.1 Information on toxicological effects

**Acute toxicity:** no data available

**Primary irritant effect on the skin:** not determined

**Primary irritant effect on the eye:** not determined

**Sensitization:** No sensitizing effects known.

**Signs and Symptoms of Exposure:**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**Additional toxicological information:**

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

The product is not subject to classification according to the latest version of the EU lists.

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## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

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

no data available

### 12.6 Other adverse effects

no data available

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## 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

**Product:**

**General advice:** The product has to be disposed of as laboratory chemical in accordance with local regulations.

**Uncleaned packaging:**

Recommendation: Disposal must be made according to official regulations.

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## 14. TRANSPORT INFORMATION

### 14.1 UN-Number

ADR/RID: -

IMDG: -

IATA: -

### 14.2 UN proper shipping name

ADR/RID: - Not dangerous goods

IMDG: - Not dangerous goods

IATA: - Not dangerous goods

### 14.3 Transport hazard class(es)

ADR/RID: -

IMDG: -

IATA: -

### 14.4 Packaging group

ADR/RID: -

IMDG: -

IATA: -

### 14.5 Environmental hazards

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

### 14.6 Special precautions for users

no data available

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**15. REGULATORY INFORMATION**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

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

no data available

**15.2 Chemical Safety Assessment**

no data available

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**16. OTHER INFORMATION****Further information**

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. Evrogen shall not be held liable for any damage resulting from handling or from contact with the above product.

**SAFETY DATA SHEET**

according to Regulation (EC) No.1907/2006

Revision Date: 01.08.2011

Print Date: 25.04.2018

GENERIC EU MSDS - NO COUNTRY SPECIFIC DATA

**1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**
**1.1 Product identifier**

Product name: Control template  
 Product number: N/A  
 Kit name: Duplex-specific nuclease  
 Kit number: EA001  
 Brand: Evrogen

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

Identified uses: Laboratory chemicals, FOR RESEARCH USE ONLY

**1.3 Details of the supplier of the safety data sheet**

Company: Evrogen JSC  
 Miklukho-Maklaya str, 16/10,  
 117997, Moscow, Russia  
 Telephone: +7(495)988-4084  
 Fax: +7(495)988-4085  
 Email address: evrogen@evrogen.com

**2. HAZARDS IDENTIFICATION**
**2.1 Classification of the substance or mixture**

Not a dangerous substance according to GHS.

This substance is not classified as dangerous according to Directive 67/548/EEC.

**2.2 Label elements**

This product does not need to be labeled in accordance with EC directives or respective national laws.

**2.3 Other hazards** none

**3. COMPOSITION/INFORMATION OF INGREDIENTS**
**3.1 Chemical characterization**

**Description:** Solution, consisting of the following components.

Component:	CAS-No:	Concentration:
water	7732-18-5	>99%
plasmid DNA	no data available	<0.1%

**4. FIRST AID MEASURES**
**4.1 Description of first aid measures**
**If inhaled**

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

**In case of skin contact**

Wash off with soap and plenty of water.

**If swallowed**

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

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

To the best of our knowledge, the chemical, physical, and toxicological properties have not been

thoroughly investigated.

#### **4.3 Indication of 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**

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

#### **5.2 Special hazards arising from the substance or mixture**

Nature of decomposition products not known.

#### **5.3 Precautions for fire-fighters**

Wear self contained breathing apparatus for fire fighting if necessary.

#### **5.4 Further information**

no data available

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### **6. ACCIDENTAL RELEASE MEASURES**

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

Avoid dust formation. Avoid breathing vapors, mist or gas.

#### **6.2 Environmental precautions**

Do not let product enter drains.

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

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### **7. HANDLING AND STORAGE**

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

Provide appropriate exhaust ventilation at places where dust is formed.

Normal measures for preventive fire protection.

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

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

Recommended storage temperature: -20 °C

#### **7.3 Specific end uses**

No further relevant information available

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### **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### **8.1 Control parameters**

##### **Ingredients with limit values that require monitoring at the workplace**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

##### **Additional information**

The lists valid during the making were used as basis.

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##### **Personal protective equipment:**

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## **9. PHYSICAL AND CHEMICAL PROPERTIES**

### **9.1 Information on basic physical and chemical properties**

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Oxidizing properties	no data available

### **9.2 Other safety information**

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### **10.1 Reactivity**

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### **10.2 Chemical stability**

no data available

### **10.3 Possibility of hazardous reactions**

No dangerous reactions known

### **10.4 Conditions to avoid**

no data available

### **10.5 Incompatible materials**

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### **10.6 Hazardous decomposition products**

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### **Additional toxicological information:**

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### 12.4 Mobility in soil

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### 12.5 Results of PBT and vPvB assessment

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### 12.6 Other adverse effects

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## 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

#### **Product:**

**General advice:** The product has to be disposed of as laboratory chemical in accordance with local regulations.

#### **Uncleaned packaging:**

Recommendation: Disposal must be made according to official regulations.

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IATA: -

### 14.2 UN proper shipping name

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Not dangerous goods

IMDG: -

Not dangerous goods

IATA: -

Not dangerous goods

### 14.3 Transport hazard class(es)

ADR/RID: -

IMDG: -

IATA: -

### 14.4 Packaging group

ADR/RID: -

IMDG: -

IATA: -

### 14.5 Environmental hazards

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

### 14.6 Special precautions for users

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