

**SAFETY DATA SHEET**  
**xGen™ Prism PEG/NaCl**

According to Regulation (EC) No 1907/2006, Annex II, as amended. Commission Regulation (EU) No 2015/830 of 28 May 2015.

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

1.1. Product identifier

Product name xGen™ Prism PEG/NaCl

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

Identified uses For research and development purposes only.

Uses advised against No specific uses advised against are identified.

1.3. Details of the supplier of the safety data sheet

Manufacturer Integrated DNA Technologies  
1710 Commercial Park  
Coralville Iowa, 52241

41 Science Park Road  
#01-28 The Gemini  
Singapore Science Park II  
Singapore 117610  
Republic of Singapore

Interleuvenlaan 12A  
B-3001 Leuven  
Belgium

6828 Nancy Ridge Drive  
San Diego, California 92121  
USA  
custcare@idtdna.com

1.4. Emergency telephone number

Emergency telephone ChemTrec 800-424-9300

**SECTION 2: Hazards identification**

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified

Health hazards Not Classified

Environmental hazards Not Classified

Indeling (classification)

2.2. Label elements

Hazard statements NC Not Classified

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

**SECTION 3: Composition/information on ingredients**

3.2. Mixtures

Composition comments      The exact percentage is withheld as a trade secret.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|                            |  |
|----------------------------|--|
| General information        | If in doubt, get medical attention promptly. Show this Safety Data Sheet to the medical personnel.   |
| Inhalation                 | No specific recommendations. If throat irritation or coughing persists, proceed as follows. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Loosen tight clothing such as collar, tie or belt. Get medical attention if any discomfort continues. |
| Ingestion                  | No specific recommendations. If throat irritation or coughing persists, proceed as follows. Rinse mouth. Get medical attention if any discomfort continues.  |
| Skin contact               | No specific recommendations. Rinse with water. Get medical attention if any discomfort continues.  |
| Eye contact                | Remove any contact lenses and open eyelids wide apart. Rinse with water. Get medical attention if any discomfort continues.  |
| Protection of first aiders | Use protective equipment appropriate for surrounding materials.  |

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

|                     |   |
|---------------------|---|
| General information | The severity of the symptoms described will vary dependent on the concentration and the length of exposure. |
| Inhalation          | No specific symptoms known. Spray/mists may cause respiratory tract irritation.                             |
| Ingestion           | No specific symptoms known. May cause discomfort if swallowed.  |
| Skin contact        | No specific symptoms known. May cause discomfort.   |
| Eye contact         | No specific symptoms known. May be slightly irritating to eyes.   |

### 4.3. Indication of any immediate medical attention and special treatment needed

|                      |                                |
|----------------------|--------------------------------|
| Notes for the doctor | Treat symptomatically.         |
| Specific treatments  | No special treatment required. |

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

|                                |  |
|--------------------------------|--|
| Suitable extinguishing media   | The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire. |
| Unsuitable extinguishing media | Do not use water jet as an extinguisher, as this will spread the fire.   |

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

|                               |  |
|-------------------------------|--|
| Specific hazards              | Containers can burst violently or explode when heated, due to excessive pressure build-up.                   |
| Hazardous combustion products | Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours. |

### 5.3. Advice for firefighters

|   |   |
|---|---|
| Protective actions during firefighting        | Avoid breathing fire gases or vapours. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapours and protect men stopping the leak. |
| Special protective equipment for firefighters | Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents.  |

## SECTION 6: Accidental release measures

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

|                      |  |
|----------------------|--|
| Personal precautions | No specific recommendations. For personal protection, see Section 8. |
|----------------------|--|

### 6.2. Environmental precautions

|                           |   |
|---------------------------|---|
| Environmental precautions | Avoid discharge into drains or watercourses or onto the ground. |
|---------------------------|---|

## 6.3. Methods and material for containment and cleaning up

Methods for cleaning up                      Reuse or recycle products wherever possible. Absorb spillage to prevent material damage. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Dispose of contents/container in accordance with national regulations.

## 6.4. Reference to other sections

Reference to other sections                      For personal protection, see Section 8. For waste disposal, see Section 13.

**SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

Usage precautions                              Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Handle all packages and containers carefully to minimise spills. Keep container tightly sealed when not in use. Avoid the formation of mists.

Advice on general occupational hygiene                      Wash promptly if skin becomes contaminated. Take off contaminated clothing. Wash contaminated clothing before reuse.

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

Storage precautions                              Store away from incompatible materials (see Section 10). No specific recommendations.

Storage class                                      Unspecified storage.

## 7.3. Specific end use(s)

Specific end use(s)                              The identified uses for this product are detailed in Section 1.2.

**SECTION 8: Exposure controls/Personal protection**

## 8.1. Control parameters

## 8.2. Exposure controls

Appropriate engineering controls                      No specific ventilation requirements.

Eye/face protection                              No specific eye protection required during normal use. Large Spillages: Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible.

Hand protection                                      No specific hand protection recommended. Large Spillages: Wear protective gloves.

Hygiene measures                                      Wash after use and before eating, smoking and using the toilet. Do not eat, drink or smoke when using this product.

Respiratory protection                              No specific recommendations. Provide adequate ventilation. Large Spillages: If ventilation is inadequate, suitable respiratory protection must be worn.

Environmental exposure controls                      Not regarded as dangerous for the environment.

**SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Appearance    Liquid.

Colour    Clear.

Odour threshold                                      Not available.

pH    Not available.

Melting point                                        Not available.

Initial boiling point and range                      Not available.

Flash point    Not available.

Evaporation rate                                      Not available.

Evaporation factor                                    Not available.

Flammability (solid, gas)                              Not available.

|  |                                 |
|--|---------------------------------|
| Upper/lower flammability or explosive limits | Not available.                  |
| Other flammability                           | Not available.                  |
| Vapour pressure                              | Not available.                  |
| Vapour density                               | Not available.                  |
| Relative density                             | Not available.                  |
| Bulk density                                 | Not available.                  |
| Solubility(ies)                              | Not available.                  |
| Partition coefficient                        | Not available.                  |
| Auto-ignition temperature                    | 305°C                           |
| Decomposition Temperature                    | Not available.                  |
| Viscosity                                    | Not available.                  |
| Explosive properties                         | Not considered to be explosive. |
| Explosive under the influence of a flame     | Not available.                  |
| Oxidising properties                         | Not available.                  |
| 9.2. Other information                       |                                 |
| Other information                            | None.                           |

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reactivity See the other subsections of this section for further details.

### 10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.

### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions No potentially hazardous reactions known.

### 10.4. Conditions to avoid

Conditions to avoid There are no known conditions that are likely to result in a hazardous situation.

### 10.5. Incompatible materials

Materials to avoid No specific material or group of materials is likely to react with the product to produce a hazardous situation.

### 10.6. Hazardous decomposition products

Hazardous decomposition products Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Toxicological effects Not regarded as a health hazard under current legislation.

#### Acute toxicity - oral

Notes (oral LD<sub>50</sub>) Based on available data the classification criteria are not met.

#### Acute toxicity - dermal

Notes (dermal LD<sub>50</sub>) Based on available data the classification criteria are not met.

#### Acute toxicity - inhalation

Notes (inhalation LC<sub>50</sub>) Based on available data the classification criteria are not met.

|  |   |
|--|---|
| Skin corrosion/irritation                          |   |
| Animal data  | Based on available data the classification criteria are not met.  |
| Serious eye damage/irritation                      |   |
| Serious eye damage/irritation                      | Based on available data the classification criteria are not met.  |
| Respiratory sensitisation                          |   |
| Respiratory sensitisation                          | Based on available data the classification criteria are not met.  |
| Skin sensitisation                                 |   |
| Skin sensitisation                                 | Based on available data the classification criteria are not met.  |
| Germ cell mutagenicity                             |   |
| Genotoxicity - in vitro                            | Based on available data the classification criteria are not met.  |
| Carcinogenicity                                    |   |
| Carcinogenicity                                    | Based on available data the classification criteria are not met.  |
| IARC carcinogenicity                               | None of the ingredients are listed or exempt.   |
| NTP carcinogenicity                                | Not listed.   |
| Reproductive toxicity                              |   |
| Reproductive toxicity - fertility                  | Based on available data the classification criteria are not met.  |
| Reproductive toxicity - development                | Based on available data the classification criteria are not met.  |
| Specific target organ toxicity - single exposure   |   |
| STOT - single exposure                             | Not classified as a specific target organ toxicant after a single exposure.   |
| Specific target organ toxicity - repeated exposure |   |
| STOT - repeated exposure                           | Not classified as a specific target organ toxicant after repeated exposure.   |
| Aspiration hazard                                  |   |
| Aspiration hazard                                  | Based on available data the classification criteria are not met.  |
| General information                                | No specific health hazards known. The severity of the symptoms described will vary dependent on the concentration and the length of exposure. |
| Inhalation   | No specific symptoms known. Spray/mists may cause respiratory tract irritation.   |
| Ingestion  | No specific symptoms known. May cause discomfort if swallowed.  |
| Skin contact                                       | No specific symptoms known. May cause discomfort.   |
| Eye contact  | No specific symptoms known. May be slightly irritating to eyes.   |
| Route of exposure                                  | Ingestion Inhalation Skin and/or eye contact  |
| Target organs                                      | No specific target organs known.  |

## SECTION 12: Ecological information

|                                     |   |
|-------------------------------------|---|
| Ecotoxicity                         | Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment. |
| 12.1. Toxicity                      |   |
| Toxicity                            | Based on available data the classification criteria are not met.  |
| 12.2. Persistence and degradability |   |
| Persistence and degradability       | The degradability of the product is not known.  |
| Biodegradation                      | Not known.  |
| 12.3. Bioaccumulative potential     |   |
| Bioaccumulative potential           | No data available on bioaccumulation.   |

|  |                                  |
|--|----------------------------------|
| Partition coefficient                    | Not available.                   |
| 12.4. Mobility in soil                   |                                  |
| Mobility                                 | No data available.               |
| 12.5. Results of PBT and vPvB assessment |                                  |
| Results of PBT and vPvB assessment       | No data available. Not relevant. |
| 12.6. Other adverse effects              |                                  |
| Other adverse effects                    | None known.                      |

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

|                     |  |
|---------------------|--|
| General information | The generation of waste should be minimised or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way.  |
| Disposal methods    | Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste packaging should be collected for reuse or recycling. Incineration or landfill should only be considered when recycling is not feasible. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of the local water authority. |

## SECTION 14: Transport information

|  |   |
|--|---|
| General  | Not regulated. The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID). |
| 14.1. UN number  |   |
| UN No. (IATA)  | Not Regulated   |
| 14.2. UN proper shipping name  |   |
| Proper Shipping Name (IATA)  | Not Regulated   |
| 14.3. Transport hazard class(es)   |   |
| IATA Hazard Class  | Not Regulated   |
| 14.4. Packing group  |   |
| IATA Packing Group   | Not Regulated   |
| 14.5. Environmental hazards  |   |
| 14.6. Special precautions for user                                       |   |
| 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code |   |

## SECTION 15: Regulatory information

|  |  |
|--|--|
| 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture |  |
| National regulations   | Health and Safety at Work etc. Act 1974 (as amended).<br>The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"].<br>EH40/2005 Workplace exposure limits.  |
| EU legislation   | Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).<br>Commission Regulation (EU) No 2015/830 of 28 May 2015.<br>Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended). |
| 15.2. Chemical safety assessment   |  |
| No chemical safety assessment has been carried out.  |  |
| Inventories  |  |

EU - EINECS/ELINCS

None of the ingredients are listed or exempt.

## SECTION 16: Other information

|  |  |
|--|--|
| Abbreviations and acronyms used in the safety data sheet | ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.<br>ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.<br>RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.<br>IATA: International Air Transport Association.<br>ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.<br>IMDG: International Maritime Dangerous Goods.<br>CAS: Chemical Abstracts Service.<br>ATE: Acute Toxicity Estimate.<br>LC <sub>50</sub> : Lethal Concentration to 50 % of a test population.<br>LD <sub>50</sub> : Lethal Dose to 50% of a test population (Median Lethal Dose).<br>EC <sub>50</sub> : 50% of maximal Effective Concentration.<br>PBT: Persistent, Bioaccumulative and Toxic substance.<br>vPvB: Very Persistent and Very Bioaccumulative. |
| Training advice  | Only trained personnel should use this material.   |
| SDS number   | 4712   |

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.