SAFETY DATA SHEET
xGen® 2x Bead Wash Buffer

1. Identification

Product identifier
Product name xGen® 2x Bead Wash Buffer
Recommended use of the chemical and restrictions on use
Application For research and development purposes only.
Uses advised against No specific uses advised against are identified.
Details of the supplier of the safety data sheet
Manufacturer Integrated DNA Technologies
1710 Commercial Park
Coralville Iowa, 52241
custcare@idtdna.com
Emergency telephone number
Emergency telephone ChemTrec 800-424-9300

2. Hazard(s) identification

Classification of the substance or mixture
Physical hazards Not Classified
Health hazards Not Classified
Environmental hazards Not Classified
Label elements
Hazard statements NC Not Classified
Other hazards This product does not contain any substances classified as PBT or vPvB.

3. Composition/information on ingredients

Mixtures
Composition comments The exact percentage is withheld as a trade secret in accordance with 29 CFR 1910.1200.

4. First-aid measures

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.
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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.

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.

Indication of immediate medical attention and special treatment needed

Notes for the doctor
Treat symptomatically.

Specific treatments
No special treatment required.

5. Fire-fighting measures

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.

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 vapors.

Advice for firefighters
Protective actions during firefighting
Avoid breathing fire gases or vapors. 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 vapors and protect men stopping the leak.

Special protective equipment for firefighters
Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Standard Firefighter's clothing including helmets, protective boots and gloves will provide a basic level of protection for chemical incidents.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures
Personal precautions
No specific recommendations. For personal protection, see Section 8.

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

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.

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

7. Handling and storage

Precautions for safe handling

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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 minimize 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 and wash before reuse. Wash contaminated clothing before reuse.

Conditions for safe storage, including any incompatibilities
Store away from incompatible materials (see Section 10). No specific recommendations.

Storage precautions
Unspecified storage.

Specific end uses(s)
The identified uses for this product are detailed in Section 1.

8. Exposure Controls/personal protection

Exposure controls

Protective equipment

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.

Other skin and body protection
Wear appropriate clothing to prevent any possibility of skin contact.

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.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance
Liquid.

Color
Colorless.

Odor
Odorless.

Odor threshold
Not available.

pH
Not available.

Melting point
Not available.

Initial boiling point and range
Not available.

Flash point
No specific test data are available.

Evaporation rate
Not available.

Evaporation factor
Not available.

Flammability (solid, gas)
Not available.
10. Stability and reactivity

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

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

Possibility of hazardous reactions
No potentially hazardous reactions known.

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

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

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 vapors.

11. Toxicological information

Information on toxicological effects
Not regarded as a health hazard under current legislation.

Toxicological effects

Acute toxicity - oral
Notes (oral LD₅₀)
Based on available data the classification criteria are not met.

Acute toxicity - dermal
Notes (dermal LD₅₀)
Based on available data the classification criteria are not met.

Acute toxicity - inhalation
Notes (inhalation LC₅₀)
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.
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Serious eye damage/irritation Based on available data the classification criteria are not met.
Serious eye damage/irritation Based on available data the classification criteria are not met.
Respiratory sensitization Based on available data the classification criteria are not met.
Respiratory sensitization Based on available data the classification criteria are not met.
Skin sensitization Based on available data the classification criteria are not met.
Skin sensitization Based on available data the classification criteria are not met.
Germ cell mutagenicity Based on available data the classification criteria are not met.
Genotoxicity - in vitro Based on available data the classification criteria are not met.
Carcinogenicity Based on available data the classification criteria are not met.
Carcinogenicity Based on available data the classification criteria are not met.
IARC carcinogenicity None of the ingredients are listed or exempt.
Reproductive toxicity Based on available data the classification criteria are not met.
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 Not classified as a specific target organ toxicant after a single exposure.
STOT - single exposure Respiratory system, lungs
Target organs Not classified as a specific target organ toxicant after repeated exposure.
Specific target organ toxicity - repeated exposure Aspiration hazard Based on available data the classification criteria are not met.
STOT - repeated exposure Aspiration hazard Based on available data the classification criteria are not met.
Aspiration hazard Specific target organ toxicity - single exposure No specific health hazards known. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation Specific target organ toxicity - repeated exposure No specific symptoms known. Spray/mists may cause respiratory tract irritation.
Ingestion Aspiration hazard No specific symptoms known. May cause discomfort if swallowed.
Skin Contact Aspiration hazard No specific symptoms known. May cause discomfort.
Eye contact Aspiration hazard No specific symptoms known. May be slightly irritating to eyes.
Route of exposure Route of exposure Ingestion Inhalation Skin and/or eye contact
Target Organs Ecotoxicity Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.
Toxicity Persistence and degradability Based on available data the classification criteria are not met.
Persistence and degradability The degradability of the product is not known.
Bioaccumulative potential Bio-Accumulative Potential No data available on bioaccumulation.
Partition coefficient Mobility in soil Not available.
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**Mobility**
No data available.

**Other adverse effects**
None known.

### 13. Disposal considerations

**Waste treatment methods**

**General information**
The generation of waste should be minimized 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.

### 14. Transport information

**General**
The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DOT).

**UN Number**
Not applicable.

**UN No. (DOT)**
Not applicable.

**UN proper shipping name**
Not applicable.

**Proper shipping name (DOT)**
Not applicable.

**Transport hazard class(es)**
No transport warning sign required.

**DOT transport labels**
No transport warning sign required.

**Packing group**
Not applicable.

**DOT packing group**
Not applicable.

**Environmental hazards**
Environmentally Hazardous Substance
No.

**Special precautions for user**
Not applicable.

**DOT reportable quantity**
Not applicable.

**DOT TIH Zone**
Not applicable.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**
Not applicable.

### 15. Regulatory information

**US Federal Regulations**

**SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities**
None of the ingredients are listed or exempt.
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CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)
None of the ingredients are listed or exempt.

SARA Extremely Hazardous Substances EPCRA Reportable Quantities
None of the ingredients are listed or exempt.

SARA 313 Emission Reporting
None of the ingredients are listed or exempt.

CAA Accidental Release Prevention
None of the ingredients are listed or exempt.

FDA - Essential Chemical
None of the ingredients are listed or exempt.

FDA - Precursor Chemical
None of the ingredients are listed or exempt.

SARA (311/312) Hazard Categories
None of the ingredients are listed or exempt.

OSHA Highly Hazardous Chemicals
None of the ingredients are listed or exempt.

US State Regulations
California Proposition 65 Carcinogens and Reproductive Toxins
None of the ingredients are listed or exempt.

California Air Toxics "Hot Spots" (A-I)
None of the ingredients are listed or exempt.

California Air Toxics "Hot Spots" (A-II)
None of the ingredients are listed or exempt.

California Directors List of Hazardous Substances
None of the ingredients are listed or exempt.

Massachusetts "Right To Know" List
None of the ingredients are listed or exempt.

Rhode Island "Right To Know" List
None of the ingredients are listed or exempt.

Minnesota "Right To Know" List
None of the ingredients are listed or exempt.

New Jersey "Right To Know" List
None of the ingredients are listed or exempt.

Pennsylvania "Right To Know" List
None of the ingredients are listed or exempt.

Inventories
US - TSCA
The following ingredients are listed or exempt:

water

US - TSCA 12(b) Export Notification
None of the ingredients are listed or exempt.
## 16. Other information

### Classification abbreviations and acronyms

- **Acute Tox.** = Acute toxicity
- **Eye Dam.** = Serious eye damage
- **Skin Corr.** = Skin corrosion
- **STOT SE** = Specific target organ toxicity-single exposure

### Training advice

Only trained personnel should use this material.

### Revision comments

Contact legal for statement

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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.