SAFETY DATA SHEET

Product Identifier: 96.96 GT PCR Dilution Reagent
Catalog ID number: 100-9977

SECTION 1 - IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Contact information

General
Fluidigm Corporation
7000 Shoreline Court Suite 100
South San Francisco, CA 94080
Main (U.S.): +1 (650) 266-6000
E-mail: techsupport@fluidigm.com

Emergency telephone number
+ (650) 266-6100 (outside US)
+ (866) 358-4354 (toll free)

Product identifier
96.96 GT PCR Dilution Reagent

Synonyms
None identified

Trade names
None identified

Chemical family
Mixture

Relevant identified uses of the substance or mixture and uses advised against
For research use only. Not for use of diagnostic procedures.

Note
This SDS is written to address potential worker health and safety issues associated with the handling of the formulated product.

SECTION 2 - HAZARDS IDENTIFICATION

Classification of the substance or mixture

Globally Harmonized System [GHS]
Not classified

Label elements

GHS hazard pictogram
None required

GHS signal word
None required

GHS hazard statements
None required
SAFETY DATA SHEET

Product Identifier: 96.96 GT PCR Dilution Reagent
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SECTION 2 - HAZARDS IDENTIFICATION...continued

GHS precautionary statements
None required

Other hazards
The hazardous properties of this mixture have not been fully investigated. Potential health hazards associated with exposure/handling may be similar to the ingredients, all of which are considered non-hazardous and/or are present at amounts below reportable quantity limits (See note in Section 3).

Note
This mixture does not meet criteria for classification under GHS as implemented by Regulation EC No 1272/2008 (EU CLP), WHMIS 2015 (Health Canada), and Hazard Communication Standard No. 1910.1200 (US OSHA). Nevertheless, it should be handled with caution as it has not yet been fully tested.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS #</th>
<th>EINECS/ELIN CS#</th>
<th>Amount</th>
<th>GHS Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non-Hazardous Reagent(s)</td>
<td>N/A</td>
<td>N/A</td>
<td>~100%</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

Note
The primary ingredient in this mixture is PCR-certified water (≥98%). The remaining components are not hazardous and/or are present at amounts below reportable quantity limits.

SECTION 4 - FIRST AID MEASURES

Description of first aid measures

Immediate Medical Attention Needed
No

Eye Contact
Flush with water. If irritation occurs or persists, notify medical personnel and supervisor.

Skin Contact
No specific first aid measures required. If irritation occurs or persists, notify medical personnel and supervisor.

Inhalation
No specific first aid measures required. In case of accidental inhalation, move exposed subject to fresh air. If signs/symptoms occur of if concerned, get medical attention.

Ingestion
No specific first aid measures required. Do not induce vomiting unless directed by medical personnel. Do not give anything to drink unless directed by medical personnel. If signs/symptoms occur or if concerned, get medical attention.

Protection of first aid responders
See Section 8 for Exposure Controls/Personal Protection recommendations.

Most important symptoms and effects, both acute and delayed
See Sections 2 and 11.
SECTION 4 - FIRST AID MEASURES …continued

Indication of immediate medical attention and special treatment needed, if necessary
Medical conditions aggravated by exposure: None known or reported. Treat symptomatically and supportively.

SECTION 5 - FIREFIGHTING MEASURES

Extinguishing media
In case of fire in the surroundings: Use water spray (fog), foam, dry powder, or carbon dioxide, as appropriate.

Specific hazards arising from the substance or mixture
May emit carbon monoxide and carbon dioxide.

Flammability/Explosivity
No explosivity or flammability data identified. As product is an aqueous solution, it is not expected to be flammable or explosive.

Advice for firefighters
In case of fire in the surroundings: use the appropriate extinguishing agent. Wear full protective clothing and an approved, positive pressure, self-contained breathing apparatus. Wash all equipment thoroughly after use.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures
If product is released or spilled, take proper precautions to minimize exposure by using appropriate personal protective equipment (see Section 8). Area should be adequately ventilated. Do not breathe mist/vapors/spray.

Environmental precautions
Do not empty into sanitary drains, sewers, or watercourses. Avoid release to the environment.

Methods and material for containment and cleaning up
For small spills, soak up material with absorbent, e.g., paper towels. For large spills, cordon off spill area to minimize the spreading of spilled material. Soak up material with absorbent. Wash spill area thoroughly with water if needed.

Reference to other sections
See Sections 8 and 13 for more information.

SECTION 7 - HANDLING AND STORAGE

Precautions for safe handling
No special handling requirements for the normal use of this product.

Conditions for safe storage including any incompatibilities
Store at -20° C.

Specific end use(s)
No information identified.
SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters/Occupational Exposure Limit Values

<table>
<thead>
<tr>
<th>Compound</th>
<th>Issuer</th>
<th>Type</th>
<th>OEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non-Hazardous Reagent(s)</td>
<td>--</td>
<td>--</td>
<td>--</td>
</tr>
</tbody>
</table>

Exposure/Engineering controls
No specific controls or precautions required. Selection and use of containment devices and personal protective equipment should be based on a risk assessment of exposure potential.

Respiratory protection
No special precautions required. Choice of respiratory protection should be appropriate to the task and the level of existing engineering controls.

Hand protection
No special precautions required. Wear nitrile or other impervious gloves to avoid mixture contamination.

Skin protection
No special precautions required. Base the choice of skin protection (e.g., appropriate gloves, lab coat, or other protective overgarment) on the job activity, potential for skin contact and solvents and reagents in use.

Eye/face protection
Base the choice of protection (e.g., chemical splash goggles) on the job activity and potential for contact with eyes or face. An emergency eye wash station should be available.

Environmental Exposure Controls
In case of spill, do not release to sanitary drains, sewers, or watercourses. Implement appropriate and effective emergency response procedures to prevent release or spread of contamination and to prevent inadvertent contact by personnel.

Other protective measures
Protective equipment is not to be worn outside the work area (e.g., in common areas or out-of-doors).

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Liquid</td>
</tr>
<tr>
<td>Color</td>
<td>Clear, colorless</td>
</tr>
<tr>
<td>Odor</td>
<td>No information identified.</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No information identified.</td>
</tr>
<tr>
<td>pH</td>
<td>No information identified.</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>No information identified.</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>No information identified.</td>
</tr>
<tr>
<td>Flash point</td>
<td>No information identified.</td>
</tr>
</tbody>
</table>
SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES …continued

<table>
<thead>
<tr>
<th>Property</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Evaporation rate</td>
<td>No information identified.</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No information identified.</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
<td>No information identified.</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No information identified.</td>
</tr>
<tr>
<td>Vapor density</td>
<td>No information identified.</td>
</tr>
<tr>
<td>Relative density</td>
<td>No information identified.</td>
</tr>
<tr>
<td>Water solubility</td>
<td>No information identified.</td>
</tr>
<tr>
<td>Solvent solubility</td>
<td>No information identified.</td>
</tr>
<tr>
<td>Partition coefficient (n-octanol/water)</td>
<td>No information identified.</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No information identified.</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No information identified.</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No information identified.</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No information identified.</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>No information identified.</td>
</tr>
</tbody>
</table>

Other information

- Molecular formula: Mixture (N/A)
- Molecular weight: Mixture (N/A)

SECTION 10 - STABILITY AND REACTIVITY

<table>
<thead>
<tr>
<th>Property</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reactivity</td>
<td>No information identified.</td>
</tr>
<tr>
<td>Chemical stability</td>
<td>Stable under normal handling and storage conditions.</td>
</tr>
<tr>
<td>Possibility of hazardous reactions</td>
<td>Not expected to occur.</td>
</tr>
<tr>
<td>Conditions to avoid</td>
<td>No information identified.</td>
</tr>
<tr>
<td>Incompatible materials</td>
<td>No information identified.</td>
</tr>
<tr>
<td>Hazardous decomposition products</td>
<td>No information identified.</td>
</tr>
</tbody>
</table>
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Product Identifier: 96.96 GT PCR Dilution Reagent
Catalog ID number: 100-9977

SECTION 11 - TOXICOLOGICAL INFORMATION

Note

No data were available for this mixture. The hazards may be similar to the hazards of the ingredient(s), all of which are considered non-hazardous.

Information on toxicological effects

Route of entry

May be absorbed by inhalation, skin contact and ingestion.

Acute toxicity

<table>
<thead>
<tr>
<th>Compound</th>
<th>Type</th>
<th>Route</th>
<th>Species</th>
<th>Dose</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non-Hazardous Reagent(s)</td>
<td>--</td>
<td>--</td>
<td>--</td>
<td>--</td>
</tr>
</tbody>
</table>

Irritation/Corrosion

No data available.

Sensitization

No data available.

STOT-single exposure

No data available.

STOT-repeated exposure/Repeat-dose toxicity

No data available.

Reproductive toxicity

No data available.

Developmental toxicity

No data available.

Genotoxicity

No data available.

Carcinogenicity

No data available. None of the components of the product present at levels greater than or equal to 0.1% are listed by NTP, IARC, ACGIH or OSHA as a carcinogen.

Aspiration hazard

No data available.

Human health data

See "Section 2 - Other Hazards"

SECTION 12 - ECOLOGICAL INFORMATION

Toxicity

<table>
<thead>
<tr>
<th>Compound</th>
<th>Type</th>
<th>Species</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non-Hazardous Reagent(s)</td>
<td>--</td>
<td>--</td>
<td>--</td>
</tr>
</tbody>
</table>

Persistence and Degradability

No data available.

Bioaccumulative potential

No data available.

Mobility in soil

No data available.

Results of PBT and vPvB assessment

Not performed.

Other adverse effects

No data available.

Note

The environmental characteristics of this product/mixture have not been fully investigated. Releases to the environment should be avoided.
SECTION 13 - DISPOSAL CONSIDERATIONS

Waste treatment methods
Used product should be disposed of according to local, state, and federal regulations. Do not discharge into sanitary drains (e.g., non-process drains) or down the toilet. All wastes containing the material should be properly labeled. Dispose of wastes in accordance to prescribed federal, state, and local guidelines, e.g., appropriately permitted chemical waste incinerator. Rinse waters resulting from spill cleanups should be discharged in an environmentally safe manner, e.g., appropriately permitted municipal or on-site wastewater treatment facility.

SECTION 14 - TRANSPORT INFORMATION

Transport
Based on the available data, this product/mixture is not regulated as a hazardous material/dangerous good under EU ADR/RID, US DOT, Canada TDG, IATA, or IMDG.

UN number
None assigned.

UN proper shipping name
None assigned.

Transport hazard classes and packing group
None assigned.

Environmental hazards
Based on the available data, this substance is not regulated as an environmental hazard or a marine pollutant.

Special precautions for users
Due to lack of data, avoid release to the environment.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
Not applicable.

SECTION 15 - REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture
This SDS generally complies with the requirements listed under current guidelines in the US, EU and Canada. Consult your local or regional authorities for more information.

Chemical safety assessment
Not conducted.

TSCA status
Not listed.

SARA section 313
Not listed.

California proposition 65
Not listed.

Additional information
No other information identified.
SECTION 16 - OTHER INFORMATION

Full text of H phrases and GHS classifications
Not applicable.

Sources of data
Information from published literature and internal company data.

Abbreviations
ACGIH - American Conference of Governmental Industrial Hygienists; ADR/RID - European Agreement Concerning the International Carriage of Dangerous Goods by Road/Rail; AIHA - American Industrial Hygiene Association; CAS# - Chemical Abstract Services Number; CLP - Classification, Labelling, and Packaging of Substances and Mixtures; DNEL - Derived No Effect Level; DOT - Department of Transportation; EINECS - European Inventory of New and Existing Chemical Substances; ELINCS - European List of Notified Chemical Substances; EU - European Union; GHS - Globally Harmonized System of Classification and Labeling of Chemicals; IARC - International Agency for Research on Cancer; IDLH - Immediately Dangerous to Life or Health; IATA - International Air Transport Association; IMDG - International Maritime Dangerous Goods; LOEL - Lowest Observed Effect Level; LOAEL - Lowest Observed Adverse Effect Level; NIOSH - The National Institute for Occupational Safety and Health; NOEL - No Observed Effect Level; NOAEL - No Observed Adverse Effect Level; NTP - National Toxicology Program; OEL - Occupational Exposure Limit; OSHA - Occupational Safety and Health Administration; PBT - Persistent, Bioaccumulative, and Toxic; PNEC - Predicted No Effect Concentration; SARA - Superfund Amendments and Reauthorization Act; STOT - Specific Target Organ Toxicity; STEL - Short Term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

Issue Date
January 2019

Revisions
Revision A: (SSF) ECN-3283 Refer to PDM for date released; Initial version of SDS.

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