



# SAFETY DATA SHEET

This SDS complies with REACH 1907/2006 and 2001/58/EC, GHS, OSHA 29CFR 1910.1200

## Section 1: Chemical Product and Company Identification

### MANUFACTURER'S NAME

CareDx  
3260 Bayshore Boulevard  
Brisbane, California 94005  
USA

### EMERGENCY TELEPHONE

U.S.: 1-866-519-4752  
EU: 001-760-478-3961  
Access Code 333766, Account# 11337  
CareDx Information: 415-287-2401  
CareDx Fax: 415-287-2456

Safety Data Sheet Competent Person: CustomerCare@caredx.com

DATE PREPARED: August 2, 2013

**REVISION DATE: March 21, 2015**

### PRODUCT NAME:

**DULBECCO'S PHOSPATE-BUFFERED SALINE  
(D-PBS)(1X)**

### FORMULA:

Preparation/Mixture

### PRODUCT USE:

Sample Processing

## Section 2: Hazards Identification

### GHS Hazard Class

Not Applicable. This product does not meet the physical, health, or environmental classification criteria of GHS (Globally Harmonized System).

### HAZARD CLASSIFICATION:

Not classified as hazardous based on IATA, IMO and DOT.

### FIRE AND EXPLOSION:

Not considered flammable or combustible, but this product will burn if involved in a fire.

### POTENTIAL HEALTH EFFECTS:

<0% of mixture consists of ingredients of unknown acute toxicity

Hazard(s) Not Otherwise Classified (HNOC): Not classified

### OTHER:

### CHRONIC EFFECTS OF OVEREXPOSURE:

None

### APPEARANCE:

Clear liquid, no odor

### NFPA Rating:

Component	Health (Blue)	Flammability (Red)	Reactivity (Yellow)	Special (White)
<b>D-PBS 1X</b>	0	0	0	--

## Section 3: Composition, Information on Ingredients

PRODUCT COMPOSITION	APPRX %	CAS NO.	EINECS/ ELINCS	DSL CANADA
<b>D-PBS 1X</b>	100	-----	N/N	N

Trade Secret (TS) Some items on this SDS may be designated as trade secrets. Bonafide requests for disclosure of trade secret information to medical personnel must be made in accordance with the provisions contained in 29 CFR 1910.1200 I 1-13. The full text for all R-Phrases is shown in Section 16.

## Section 4: First Aid Measures

### Description of First Aid Measures

INHALATION:	Move to fresh air. If breathing stops, provide artificial respiration. For breathing difficulties, oxygen may be necessary. Get medical attention.
SKIN CONTACT:	Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash contaminated clothing before reuse. Destroy or thoroughly clean contaminated shoes.
EYE CONTACT:	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.
INGESTION:	Call a physician or poison control center immediately. Only induce vomiting at the instruction of medical personnel. Never give anything by mouth to an unconscious person.

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

Symptoms/Injuries After Inhalation	No information available.
Symptoms/Injuries After Skin Contact	No information available.
Symptoms/Injuries After Eye Contact	No information available.
Symptoms/Injuries After Ingestion	No information available.

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

Symptoms may not appear immediately. In case of accident or if you feel unwell, seek medical advice immediately.

## Section 5: Fire-fighting Measures

Suitable extinguishing media	None
Special hazards arising from the substance or mixture	No data available.
Protective actions fire-fighters	Wear standard protective equipment and self contained breathing apparatus for firefighting if necessary.
Further information	None

## Section 6: Accidental Release Measures

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

- Wear proper protective equipment as specified in Section 8: Exposure Controls/Personal Protection
- Place material into a chemical waste container.
- Prevent spills or contaminated rinse water from entering sewers or watercourses.

### Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent spills or contaminated rinse water from entering sewers or watercourses.

### Methods and materials for containment and cleaning up

In case of small spills, absorb with inert materials such as earth or dry sand. Place in a chemical waste container.

**Reference to other Sections** For personal protection reference section 8. For disposal reference section 13.

## Section 7: Handling and Storage

### Precautions for safe handling

- Avoid contact with skin, eyes, or clothing.
- Avoid breathing mist or vapor.
- Wear proper protective equipment when handling this material.
- Avoid contact with skin, eyes or clothing.



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

Storage temperature 15-30°C

**Specific uses**      Sample processing

## Section 8: Exposure Controls/Personal Protection

### Control Parameters

PRODUCT COMPOSITION	ACGIH TLV	OSHA PEL	NIOSH REL	U.S. WEEL TWA	Canada OEL	Mexico OEL
D-PBS 1X	----	----	----	----	----	----

### Exposure controls

VENTILATION:	Use in areas of adequate ventilation.
SPECIAL VENTILATION CONTROLS:	Special ventilation precautions not required
RESPIRATORY PROTECTION:	No respiratory protection normally required. In case of mist, spray or aerosol exposure, wear suitable personal respiratory equipment.
PROTECTIVE GLOVES:	Neoprene or nitrile rubber gloves are recommended.
EYE PROTECTION:	No special eye protection is normally required. Where splashing is possible, wear safety glasses, goggles or face shield.
SKIN PROTECTION:	Suitable protective clothing to prevent skin contact
OTHER EQUIPMENT:	Make safety shower, eyewash stations, and hand washing equipment available in the work area.
WORK/HYGIENE PRACTICES:	Provide good personal hygiene after handling. Avoid contact with eyes. Wash hands after handling.

## Section 9: Physical and Chemical Properties

	PRODUCT CRITERIA
APPEARANCE - COLOR:	Clear
PHYSICAL STATE:	Liquid
ODOR:	None
ODOR THRESHOLD	Not Available for product
PH	Not Available for product
MELTING POINT/FREEZING POINT:	Not Available for product
INITIAL BOILING POINT AND BOILING RANGE:	Not Available for product
FLASH POINT:	Not Available for product
EVAPORATION RATE:	Not Available for product
FLAMMABILITY (Solid, gas)	Not Available for product
UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS	Not Available for product
VAPOR PRESSURE	Not Available for product
VAPOR DENSITY (AIR = 1)	Not Available for product
RELATIVE DENSITY (@25 °C):	Not Available for product
OXIDIZING PROPERTIES	Not Available for product
PARTITION COEFFICIENT: n-octanol/water	Not Available for product
AUTO IGNITION TEMPERATURE	Not Available for product
DECOMPOSITION TEMPERATURE	Not Available for product
VISCOSITY	Not Available for product

## Section 10: Stability and Reactivity

Reactivity:	Not reactive.
Chemical Stability:	Stable
Possibility of Hazardous Reactions:	Will not occur
Conditions to Avoid:	None
Incompatibility (Materials to Avoid):	None
Hazardous Decomposition Products:	None



## Section 11: Toxicological Information

There is no toxicological information available for the product mixture.

GHS Required Criteria	Toxicity Criteria	Toxicity Information	Comments	Chemical Constituent
Acute Toxicity		No information is available.		
Skin Corrosion/Irritation		No information is available.		
Serious Eye Damage / Eye Irritation		No information is available.		
Respiratory or Skin Sensitization		No information is available.		
Germ Cell Mutagenicity		No information is available.		
Carcinogenicity		Not listed	NTP	
		Not listed	IARC	
		Not listed	OSHA	
Reproductive Toxicity		No information is available.		
STOT -- Single Exposure		No information is available.		
STOT -- Repeated Exposure		No information is available.		
Aspiration Hazard		No information is available.		

STOT = Specific Target Organ Systemic Toxicity

Only selected Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here. See actual entry in RTECS for complete information.

## Section 12: Ecological Information

Toxicity:	No information is available.	
Persistence and degradability:	No information is available.	
Bioaccumulative potential	No information is available.	
Mobility in soil:	No information is available.	
PBT and vPvB assessment:	No information is available.	
Other adverse effects:	No information is available.	

Note: No environmental hazards were identified based on a review of available data for the ingredients in this product. Not all of the ingredients have been tested for Ecotoxicity.

## Section 13: Disposal Considerations

**Waste from residues/unused products:** Follow the waste disposal requirements of your country, state, or local authorities.

**Contaminated packaging:** Contaminated packaging material should be disposed of as stated above for residues and unused product.

**Rinsate:** Do not dispose of rinse water containing product in a stormwater drainage system.

## Section 14: Transport Information

**DOT TRANSPORT:** Not Regulated

**ADR = International Carriage of Dangerous Goods by Road** Not Regulated

**RAIL TRANSPORT:** Not Regulated

**SEA TRANSPORT:** IMDG Not Regulated

**AIR TRANSPORT:** IATA/ICAO Not Regulated

## Section 15: Regulatory Information

**TOXIC SUBSTANCES CONTROL ACT (TSCA) STATUS:**  
None of the ingredients are on the TSCA inventory.



**SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA) TITLE III SECTION 313 SUPPLIER NOTIFICATION:**

This regulation requires submission of annual reports of toxic chemical(s) that appear in section 313 of the Emergency Planning and Community Right To Know Act of 1986 and 40 CFR 372. This information must be included in all MSDS's that are copied and distributed for the material.

The Section 313 toxic chemicals contained in this product are: None

**CALIFORNIA PROPOSITION 65:**

This regulation requires a warning for California Proposition 65 chemical(s) under the statute.

The California proposition 65 chemical(s) contained in this product are: None

**STATE RIGHT-TO-KNOW TOXIC SUBSTANCE OR HAZARDOUS SUBSTANCE LIST:**

Florida Toxic Substance(s):	Not listed
Massachusetts's hazardous substance(s):	Not listed
Pennsylvania hazardous substance code(s):	Not listed
New Jersey	Not listed
Illinois	Not listed
Michigan	Not listed

**CANADA:**

This MSDS/SDS will be non-compliant 3 years after the issue date. This SDS contains all of the information required by the Controlled Products Regulations (CPR).

**WHMIS-INFORMATION:**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR), SOR/88-66, Current to February 20, 2012. The classes of controlled products listed in the CPR, Section 32, Part IV, have been reviewed and based on Professional Judgment this product has been determined to not be WHMIS controlled.

**EUROPEAN UNION:**

This product has been reviewed for compliance with the following European Community Directives: REACH 1907/2006; Directive 1999/45/EC, Regulation (EC) No 1272/2008 on classification, labeling and packaging (CLP) of substances and mixtures.

WGK: 0 (German Federal Water Management Act) (Water Hazard Class)

## **Section 16: Other Information**

Full text of R-phrases and Safety Phrases referred to in Section 3

R:	None
S:	None
Danger Symbol(s):	None

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Revision Number:	4
Revision explanation	Initial version
Information Sources:	RTECS, ECHA, REACH, OSHA 29CFR 1910.1200

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