

Material Safety Data Sheet

Dulbecco's Phosphate Buffered Saline (DPBS) Without Calcium and Magnesium

Section 1 – Product and Company Identification

- 1.1 Product Name: Dulbecco's Phosphate Buffered Saline (DPBS) without Calcium and Magnesium.
- 1.2 Catalog Number: KOM-KIT-001
- 1.3 Synonyms: PBS; PBS Bottle
- 1.4 Product Use: Dulbecco's Phosphate Buffered Saline DPBS without Calcium and Magnesium is used as an effective wash to remove previously used substances and return material to normal pH levels.

Available size/quantity: 5ml bottle.

- 1.5 Manufacturer/Supplier: KometaBio Inc.
51 6th Street
Cresskill, NJ USA 07626
- 1.6 Contact Phone number: +1 (201) 286-7436

Section 2 – Composition / Information on Ingredients

2.1

| Ingredient | Unit | CAS# | EC# |
|---|---------------|------|------|
| Dulbecco's Phosphate Buffered Saline (DPBS) without Calcium and Magnesium | Not Available | None | None |

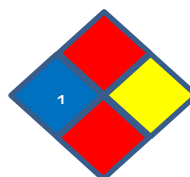
2.2 Form: Clear Liquid Solution

2.3 Use of Substance: For Clinical use only. To be handled by medical professionals and medical staff only.

HMIS

| | | |
|---------------------|---|--|
| Health | 1 | |
| Flammability | 0 | |
| Reactivity | 0 | |
| Personal Protection | | |

NEPA



- 2.4 Precautionary Measures to Minimize Risks and Potential Hazards:
- 2.4.1 Work according to internationally accepted safety standards and protocols.
 - 2.4.2 Do not handle the product until all safety precautions have been read and understood.
 - 2.4.3 Read the product labels and/or product insert.
 - 2.4.4 Use the necessary personal protection equipment as required before coming in to contact with the product.
 - 2.4.5 Keep away from heat/hot surfaces/sparks/open flames. No smoking.
 - 2.4.6 Use explosion-proof electrical/lighting/ventilation equipment.
 - 2.4.7 Use only in well ventilated areas.
 - 2.4.8 Dispose of any chemical residues, spills or accompanying waste property.
 - 2.4.9 Wash hands thoroughly after handling.
 - 2.4.10 Use of product by authorized and trained personnel only.

Section 3 – Hazards Identification

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|-----|---------------------------------|--|
| 3.1 | Emergency Overview: | This product may potentially cause a slight irritation to eyes. This product may also be harmful if ingested. Complete toxicological properties have yet to be determined. |
| 3.2 | Routes of Exposure | Absorbed through skin, eye contact, and ingestion. |
| 3.3 | Potential Health Effects: | |
| | 3.3.1 Eye: | May cause slight eye irritation |
| | 3.3.2 Skin: | Not applicable |
| | 3.3.3 Inhalation: | Not applicable |
| | 3.3.4 Ingestion: | May be harmful if swallowed. |
| 3.4 | Chronic Effects/Carcinogenicity | Not available |
| 3.5 | OSHA Regulatory Status: | Not available |

Section 4 – First Aid Measures

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|-----|-------------------|--|
| 4.1 | Eyes: | In case of contact with eyes, flush thoroughly with water. |
| 4.2 | Skin: | In case of contact with skin, wash the affected area with conscious amounts of water. |
| 4.3 | Ingestion: | If swallowed, wash out mouth with water provided person is conscious. |
| 4.4 | Inhalation: | If inhaled, remove person to fresh air. If breathing becomes difficult, contact a physician. |
| 4.5 | Puncture wounds: | Wash thoroughly with water. Allow to bleed freely. Contact physician. |
| 4.6 | Note to physician | Not applicable. |

Section 5 – Fire Fighting Measures

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|-----|--|---|
| 5.1 | Flash Point/Method: | Not available |
| 5.2 | Explosive Limits: | |
| | 5.2.1 Upper: | Not available |
| | 5.2.2 Lower: | Not available |
| 5.3 | Autoignition Temperature: | Not available |
| 5.4 | Hazardous Combustion Products: | Not available |
| 5.5 | Conditions of Flammability: | Not available |
| 5.6 | Extinguishing Media: | Water spray, dry chemical, or appropriate foam. |
| 5.7 | Fire Fighting Procedures: | Not available |
| 5.8 | Explosion Data: | |
| | 5.8.1 Sensitivity to Mechanical Impact | Not available |
| | 5.8.2 Sensitivity to Static Discharge | Not available |

Section 6 – Accidental Release Measures

| | | |
|-----|----------------------------|---|
| 6.1 | Leak and Spill Procedures: | Wear chemical-resistant gloves. Absorb spill and place in closed container for disposal. Wash area after cleaning thoroughly after clean-up is completed. |
|-----|----------------------------|---|

Section 7 – Handling and Storage

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| 7.1 | Handling: | Should be handled by trained personnel. |
| 7.2 | Storage: | Store at 5-30 degrees Celsius |

Section 8 – Exposure Controls/Personal Protections

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|-----|---------------------------------|--------------------------------|
| 8.1 | Engineering Controls: | Use with adequate ventilation. |
| 8.2 | Personal Protective Equipment: | |
| | 8.2.1 Respiratory Protection: | Not applicable. |
| | 8.2.2 Eye Protection: | Safety glasses. |
| | 8.2.3 Skin Protection: | Lab coat, gloves. |
| 8.3 | General Hygiene Considerations: | Wash hands after use. |
| 8.4 | Exposure Limits: | |
| | 8.4.1 ACGIH TLV-TWA | Not available |
| | 8.4.2 OSHA PEL-TWA | Not available |

Section 9 – Physical/Chemical Properties

| | | |
|-----|-----------------|-----------------------|
| 9.1 | Appearance: | Clear solution |
| 9.2 | Odor: | Odorless |
| 9.3 | Physical State: | Liquid |
| 9.4 | pH: | 7.25 – 7.45 |
| 9.5 | Boiling Point: | ~ 100 degrees Celsius |
| 9.6 | Melting Point: | Not applicable |
| 9.7 | Freezing Point: | ~ 0 degrees Celsius |
| 9.8 | Vapor Pressure: | Not applicable |

| | | |
|------|--|----------------|
| 9.9 | Vapor Density: | Not applicable |
| 9.10 | Specific Gravity: | Not applicable |
| 9.11 | Evaporation Rate: | Not applicable |
| 9.12 | Solubility in Water: | Not applicable |
| 9.13 | Odor Threshold: | Not applicable |
| 9.14 | Coefficient of Water/Oil Distribution: | Not applicable |

Section 10 – Stability / Reactivity

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|------|--------------------------------------|---------------|
| 10.1 | Chemical Stability: | Stable |
| 10.2 | Conditions to Avoid: | Not available |
| 10.3 | Incompatibility (Material to avoid): | Not available |
| 10.4 | Hazardous Decomposition/By-Product: | Not available |
| 10.5 | Hazardous Polymerization: | Not available |

Section 11 – Toxicological Information

| | | |
|-------|---|---------------|
| 11.1 | Effects of Short Term Exposure: | Not available |
| 11.2 | Effects of Long Term Exposure: | Not available |
| 11.3 | Irritancy of Product: | Not available |
| 11.4 | Sensitization of Product: | Not available |
| 11.5 | Carcinogenicity: | Not available |
| 11.6 | Reproductive Toxicity: | Not available |
| 11.7 | Teratogenicity and Embryotoxicity: | Not available |
| 11.8 | Mutagenicity: | Not available |
| 11.9 | Name of Toxicologically Synergistic Products: | Not available |
| 11.10 | LD50 (specify species and route): | Not available |
| 11.11 | LC50 (specify species): | Not available |

Section 12 – Ecological Information

12.1 Not available

Section 13 – Disposal Considerations

13.1 Waste Disposal Method: Disposal should be in line with existing practices at your institution/clinic. Observe all federal, provincial, and local laws.

Section 14 – Transport Information

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|------|------------------------------------|--|
| 14.1 | Transport Canada | |
| | 14.1.1 PIN No.: | Not available |
| 14.2 | U.S. Department of Transportation: | |
| | 14.2.1 Proper Shipping Name: | Not available |
| | 14.2.2 Hazard Class: | This product is not known to be hazardous for transport. |
| | 14.2.3 ID. Number: | Not available |

14.2.4 Packing Group
14.2.5 Label Statement

Not available
Not available

Section 15 – Regulatory Information

- 15.1 WHMIS Classification: Not available
15.2 **Note:** This MSDS was prepared according to Regulation (EC) No. 1907/2006 and contains all the information required by these regulations.

Section 16 – Other Information

- 16.1 Prepared by: Quality Assurance.
16.2 Preparation Information: Refer to internal pharmacological reports.
16.3 This MSDS has been revised in the following section(s): NA
16.4 Original Issue Date: September 4th, 2015
16.5 Notice: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. KometaBio Inc. shall not be held liable for any damage resulting from handling or from contact with the product. The information contained in this Material Safety Data Sheet (MSDS) is current as of the Date Prepared shown in Section 16.4 of this document and may be subject to amendment by KometaBio Inc.
16.6 **Disclaimer: THIS PRODUCT IS FOR CLINICAL USE ONLY BY PROFESSIONALLY TRAINED MEDICAL PERSONNEL.**