

Material Safety Data Sheet

Section 1. Identification of the Substance/Mixture

Product name: PhaseShield™ Gel Tubes

Cat. #: M2302

Manufacturer/Supplier identification

Life Science Biotechnology, LLC

Web: www.lifescb.com

Tel: +1-301-328-1977

Email: info@lifescb.com

For research use only. Not for use in diagnosis procedures

Section 2. Hazards Identification

GHS classification

Not a hazardous substance or mixture.

GHS label elements

Not a hazardous substance or mixture.

Other hazards

None known.

Section 3. Composition/Information on Ingredients

Substance / Mixture

Mixture

Components

No hazardous ingredients

Section 4. First Aid Measures

General advice Show this material safety data sheet to the doctor in attendance.

If inhaled Move to fresh air.
If symptoms persist, call a physician.

In case of skin contact Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
If symptoms persist, call a physician.

In case of eye contact Remove contact lenses.

Protect unharmed eye.
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

If accidentally swallowed obtain immediate medical attention.
Rinse mouth with water.
Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

No information available.

Notes to physician

No information available.

Section 5. Fire-Fighting Measures

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Specific hazards during fire fighting

Exposure to decomposition products may be a hazard to health.

Hazardous combustion products

Silicon oxides
Carbon oxides
Formaldehyde

Specific extinguishing

In the event of fire and/or explosion do not breathe fumes.

Special protective equipment for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

Section 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment.
Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.

Methods and materials for containment and cleaning up

Keep in suitable, closed containers for disposal.

Section 7. Handling and Storage

Advice on protection against fire and explosion

Normal measures for preventive fire protection.

Advice on safe handling

For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.

Section 8. Exposure Controls/Personal Protection

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

Personal Protective Equipment

Hand protection Remarks	The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
Eye protection	Safety glasses.
Skin and Body Protection	Choose body protection according to the amount and concentration of the dangerous substance at the work place. Footwear protecting against chemicals
Hygiene measures	Keep away from food and drink. When using do not eat, drink or smoke.

Section 9. Physical and Chemical Properties

Appearance	paste
Color	No data available
Odor Threshold	No data available
pH	No data available
Melting point / melting range	No data available
Boiling point / boiling range	No data available
Flash point	> 315 °C
Evaporation rate	No data available
Burning rate	No data available
Upper Explosion limit	No data available
Lower explosion limit	No data available
Vapor pressure	No data available
Relative vapor density	No data available

Relative density	No data available
Density	1.07 g/cm ³
Water solubility	insoluble
Solubility in other solvents	partly soluble
Partition coefficient: noctanol/water	No data available
Autoignition temperature	No data available
Decomposition temperature	No data available
Viscosity, dynamic	No data available
Viscosity, kinematic	No data available
Explosive properties	No data available
Oxidizing properties	No data available

Section 10. Stability and Reactivity

Reactivity	No decomposition if stored and applied as directed.
Chemical stability	No decomposition if stored and applied as directed.
Possibility of hazardous reactions	Stable under recommended storage conditions. Hazardous decomposition products formed under fire conditions.
Conditions to avoid	No data available.
Incompatible materials	No data available
Hazardous decomposition Products	No decomposition if stored and applied as directed.

Section 11. Toxicological information

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity	No data available
Acute inhalation toxicity	No data available
Acute dermal toxicity	No data available

Skin corrosion/irritation

Not classified based on available information.

Product:

Remarks May cause skin irritation in susceptible persons.

Serious eye damage/eye irritation

Not classified based on available information.

Product:

Remarks May irritate eyes.

Respiratory or skin sensitization**Skin sensitization**

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

IARC No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified based on available information.

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

Section 12. Ecological Information

Ecotoxicity**Product:**

Toxicity to fish No data available

Toxicity to algae/aquatic plants No data available

Toxicity to microorganisms No data available

Persistence and degradability No data available

Bioaccumulative potential

Product:

Bioaccumulation No data available

Mobility in soil
No data available

Other adverse effects

Product:

Ozone-Depletion Potential Regulation: 40 CFR Protection of Environment; Part 82
Protection of Stratospheric Ozone - CAA Section 602
Class I Substances
Remarks: This product neither contains, nor was
manufactured with a Class I or Class II ODS as defined by
the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A,
App.A + B).

Additional ecological information No data available

Section 13. Disposal considerations

Disposal methods

Contaminated packaging Empty containers should be taken to an approved waste
handling site for recycling or disposal.

Section 14. Transport Information

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No data available

Domestic regulation

49 CFR

Not regulated as a dangerous good

Section 15. Regulatory Information

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 311/312 Hazards

No SARA Hazards

SARA 313

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

US State Regulations

California Prop. 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

Section 16. Other Information

For research use only. Not intended for human or animal diagnostic or therapeutic uses.

Full text of other abbreviations

(Q)SAR - (Quantitative) Structure Activity Relationship; ASTM - American Society for the Testing of Materials; bw - Body weight; DIN - Standard of the German Institute for Standardisation; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISO - International Organisation for Standardization; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the

Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative; DSL - Domestic Substances List (Canada); KECI - Korea Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); AICS - Australian Inventory of Chemical Substances; IECS - Inventory of Existing Chemical Substances in China; ENCS - Existing and New Chemical Substances (Japan); ISHL - Industrial Safety and Health Law (Japan); PICCS - Philippines Inventory of Chemicals and Chemical Substances; NZIoC - New Zealand Inventory of Chemicals; TCSI - Taiwan Chemical Substance Inventory; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; DOT - Department of Transportation; EHS - Extremely Hazardous Substance; HMIS - Hazardous Materials Identification System; MSHA - Mine Safety and Health Administration; NFPA - National Fire Protection Association; RCRA - Resource Conservation and Recovery Act; RQ - Reportable Quantity; SARA - Superfund Amendments and Reauthorization Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; GLP - Good Laboratory Practice; ERG - Emergency Response Guide; NTP - National Toxicology Program; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods

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The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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, unless specified in the text.

End of Material Safety Data Sheet