

Material Safety Data Sheet

Section 1. Identification of the Substance/Mixture

Product name: PhaseShield™ Gel Tubes

Cat. #: M2302

Manufacturer/Supplier identification

LifeSct LLC
Web: www.lifesct.com
Tel: 1-301-890-6420
Email: info@lifesct.com

For research use only. Not for use in diagnosis procedures

Section 2. Hazards Identification

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

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

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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.

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

Further information

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.

Further information on storage stability

No decomposition if stored and applied as directed.

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	liquid
Color	No data
Odor Threshold	No data
pH	No data
Melting point / melting range	No data
Boiling point / boiling range	No data
Flash point	No data
Evaporation rate	No data
Burning rate	No data
Upper Explosion limit / Upper flammability limit	No data

Lower explosion limit / Lower flammability limit	No data
Vapor pressure	No data
Relative vapor density	No data
Relative density	No data
Density	1.030 g/cm ³
Water solubility	insoluble
Solubility in other solvents	partly soluble
Partition coefficient: noctanol/water	No data
Autoignition temperature	No data
Decomposition temperature	No data
Viscosity, dynamic	ca. 800 mPa.s (70 °F / 21 °C)
Viscosity, kinematic	No data
Explosive properties	No data
Oxidizing properties	No data

Section 10. Stability and Reactivity

Reactivity	None known.No decomposition if stored and applied as directed.
Chemical stability	None known.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 information 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.

Product:

Remarks May irritate eyes.

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

International regulation

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

Not applicable for product as supplied.

Domestic regulation

49 CFR

Not regulated as a dangerous good

Special precautions for user

Not classified as dangerous in the meaning of transport regulations.

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

This material does not contain any components with a section 302 EHS TPQ.

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.

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

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation,

and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification 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; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative.

THE INFORMATION IN THIS SDS DOES NOT CONSTITUTE A WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE

End of Material Safety Data Sheet