SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: InertSustain Phenyl
NAME OF SUPPLIER: GL Sciences Inc.
ADDRESS: 22-1 Nishishinjuku 6-chome Shinjuku-ku Tokyo 163-1130, Japan
CHARGE SECTION: International Sales Section
TELEPHONE No.: +81-3-5323-6620
FACSIMILE No.: +81-3-5323-6621
PRODUCT No.: 5020-16301~5020-16544, 5020-20308~5020-20401, 5020-
SDS No.: 5020-0035
Research use only.

2. HAZARDS IDENTIFICATION

InertSustain Phenyl is the article using for such as chromatography analysis, research and development. Packing material will not leak from column under usual using conditions. We show the information about packing materials below.

GHS CLASSIFICATION:
- Serious eye damage/eye irritation: Category 2B
- Specific target organ toxicity (single exposure): Category 3
  (Respiratory tract irritancy)

HAZARDS SYMBOL:

SIGNAL WORD: Warning

HAZARD STATEMENTS:
- H320 Cause eye irritation
- H335 May cause respiratory irritation

PRECAUTIONARY STATEMENTS:
- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P264 Wash hands thoroughly after handling.
- P271 Use only outdoors or in a well-ventilated area.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337+P313 If eye irritation persists: Get medical attention.
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P312 Call a POISON CENTER or doctor if you feel unwell.
- P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with all applicable regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL IDENTITY: Phenyl group modified silica gel
SYNONYMS: - - -
CHEMICAL FORMULA: (SiO2)-C6H5
CONTENT: 100%
CAS RN: 112926-00-8
TSCA INVENTORY: Not Listed
EINECS No.: Not Listed
4. FIRST AID MEASURES

GENERAL ADVICE: Wash off with soap and plenty of water. In the case of respirable dust and/or fumes, use self-contained breathing apparatus and dust impervious protective suit. Use personal protective equipment.

INHALATION: Move victim to fresh air and gargle. If breathing is difficult, give oxygen.
If irritation persists, consult a physician.

SKIN CONTACT: Remove contaminated clothes and shoes, rinse skin with plenty of water or shower, or wipe off cleansing cream with coating, tender cloth. Use soap to help assure removal. If irritation persists, consult a physician.

EYE CONTACT: Remove any contact lenses at once. Flush eyes well with flooding large amounts of running water for at least 15 minutes. Assure adequate flushing by separating the eyelids with sterile fingers. If irritation persists, consult a physician.

INGESTION: Rinse mouth, give plenty of water to vomit. Never give anything by mouth to an unconscious person. If feel unwell, consult a physician.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Carbon dioxide, dry chemical powder, foam, water spray

FIRE & EXPLOSION HAZARDS: CO₂, CO are included in a flue gas. Use cylinder-type air respiratory apparatus at the fire extinguishing in the room.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS: Fireman should wear normal protective equipment (full bunker gear) and positive-pressure self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Remove ignition sources and ventilate the area. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid raising dust and avoid contact with skin and eyes.

ENVIRONMENTAL PRECAUTIONS: Prevent spills from entering sewers, watercourses or low areas. Comply with local disposal regulations.

METHODS FOR CLEANING UP: Do not touch spilled material without suitable protection. After material is completely picked up, wash the spill site with soap and water and ventilate the area. Pick all wastes up in a plastic bag for disposal and seal it tightly. Remove, clean, or dispose contaminated clothing.

7. HANDLING AND STORAGE

HANDLING: Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure. Handle this product with appropriate protective equipment.

STORAGE: Store away from sunlight in a cool well-ventilated dry place. Keep container tightly closed.

INCOMPATIBLE PRODUCTS: Oxidizers and acids

8. EXPOSURE CONTROL/PERSONAL PROTECTION

ENGINEERING MEASURES: Use exhaust ventilation to keep airborne concentrations below exposure limits. Use adequate ventilation.

VENTILATION: Local Exhaust; Necessary, Mechanical(General); Recommended

CONTROL PARAMETERS: 
ACGIH: Inhalable dust TWA=10mg/m³, Respirable dust TWA=3mg/m³ (as PNOS)
OSHA PEL: 80 mg/m³/2%SiO₂ (as amorphous silica)
NIOSH REL: TWA=6mg/m³ (as amorphous silica)

PERSONAL PROTECTION: 
RESPIRATORY PROTECTION: Half or full face piece respirator, self-contained breathing apparatus, supplied air respirator, etc. Use respirators approved under appropriate government standards and follow all regulations.

HAND PROTECTION: Safety gloves

EYE PROTECTION: Safety glasses(goggles)

SKIN PROTECTION: Protective clothing
### 9. PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE**: White powder

**PHYSICAL STATE**: Solid

**ODOR**: Odorless

**pH**: No data available

**BOILING POINT**: No data available

**MELTING POINT**: No data available

**FLASH POINT**: No data available

**FLAMMABILITY**: No data available

**AUTOIGNITION TEMPERATURE**: No data available

**VAPOR PRESSURE**: No data available

**SPECIFIC GRAVITY (DENSITY)**: No data available

**SOLUBILITY IN**
- Water: Insoluble
- Organic solvent: Insoluble

**PARTITION COEFFICIENT**
- n-octanol/water: No data available

### 10. STABILITY AND REACTIVITY

**REACTIVITY**: Stable under recommended using and storage conditions.

**CHEMICAL STABILITY**: Stable under recommended using and storage conditions.

**CONDITION TO AVOID**: Sunlight, heat, moisture, CO₂, oxidizers, acids, alkalis

**INCOMPATIBLE MATERIALS**: Oxidizers, acids

**HAZARDOUS DECOMPOSITION PRODUCTS**: CO, CO₂

### 11. TOXICOLOGICAL INFORMATION

**ACUTE TOXICITY**: Not classified (oral, dermal)
Classification not possible, No data available (inhalation(dust, mist))

**SKIN CORROSION/IRRITATION**: Not classified

**EYE DAMAGE/EYE IRRITATION**: Category 2B
Mild irritating to rabbit eyes (SIDS (2006), ECETOC JACC (2006))

**SENSITIZATION**: Classification not possible, No data available

**GERM CELL MUTAGENICITY**: Classification not possible

**CARCINOGENICITY**: Classification not possible
Inadequate evidence of carcinogenicity in humans (IARC 68 (1997))

**REPRODUCTIVE TOXICITY**: Classification not possible, No data available

**SPECIFIC TARGET ORGAN TOXICITY**
- **single exposure**
  - Irritating to respiratory tract (SIDS (2006), ECETOC JACC (2006))

**SPECIFIC TARGET ORGAN TOXICITY**
- **repeated exposure**
  - Classification not possible

**ASPIRATION HAZARD**: Classification not possible, No data available

### 12. ECOLOGICAL INFORMATION

**Hazardous to the aquatic environment - Acute hazard** –
Not classified

**Hazardous to the aquatic environment - Chronic hazard** –
Classification not possible

**BIODEGRADABILITY**: May not occur microbial degradation

**BIOACCUMULATIVE POTENTIAL**: No data available

**MOBILITY IN SOIL**: No data available

**HAZARDOUS TO THE OZONE LAYER**: Not listed in Montreal Protocol list.
13. DISPOSAL INFORMATION
Dispose in a hazardous-waste site in accordance with all applicable regulations. Any disposal practice must be in compliance with country, local, state, and federal laws and regulations (contact country, local or state environment agency for specific rules).

14. TRANSPORT INFORMATION
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<tr>
<th>IATA</th>
<th>Not dangerous goods</th>
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<tr>
<td>ADR/RID</td>
<td>Not dangerous goods</td>
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<td>DOT(Department of Transportation)</td>
<td>Not dangerous goods</td>
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<tr>
<td>MARINE POLLUTANT</td>
<td>Not classified</td>
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15. REGULATORY INFORMATION
For classification and labeling of chemicals in accordance with the applicable rules and regulations in the EU or each country, refer to GHS classification of this product (See Section 2).

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<tbody>
<tr>
<td>EU REGULATION</td>
<td>CLP Regulation ((EC) No. 1272/2008)</td>
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16. OTHER INFORMATION
NOTICE:
The information contained in the SDS description is applicable exclusively to the chemical substance identified herein and for its intended use as an analytical reference standard or reagent and to the unit quantity intended for that purpose. The information does not relate to, and may not be appropriate for, any application or larger quantity of the substance described. Our products are intended for the use by individuals possessing sufficient technical skill and qualification on use the material potential hazardous chemical. Accordingly, no representation or warranty, express or implied, with respect to merchantability and fitness for a particular purpose is made with respect to the information contained herein.

Attention:
This product in terms of chemical identity and the unit amount provide is intended for use in chemical analysis and not for human consumption, nor any other purpose.