SAFETY DATA SHEET

SDS No.1002-0015

1. PRODUCT AND COMPANY IDENTIFICATION
   PRODUCT NAME: PORAPAK QS
   NAME OF MANUFACTURER: 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
   FAXSIMILE No.: +81-3-5323-6621
   PRODUCT No.: 1002-11405, 1002-11408, 1002-11410, 1003-
   SDS No.: 1002-0015
   Research use only.

2. HAZARDS IDENTIFICATION
   This product is the packing material using for such as chromatography analysis, researches and developments.
   Although the column packed with is not dangerous goods, we show some data about this packing material for the information supplement below.

   GHS CLASSIFICATION: Classification not possible
   HAZARD SYMBOL: - - -
   HAZARD STATEMENTS: - - -
   PRECAUTIONARY STATEMENTS: - - -
   HAZARD INFORMATIONS:
   May cause respiratory tract irritation if inhaled.
   May cause eye, skin and mucous irritations if contact with.
   May be harmful if ingested.
   May induce damage to the lung through prolonged or repeated exposure.
   MOST IMPORTANT HAZARDS: Irritation of eyes, skin, respiratory system.

3. COMPOSITION/INFORMATION ON INGREDIENTS
   CHEMICAL NAME: Polymer Beads
   SYNONYMS: Ethylvinylbenzene - Divinylbenzene copolymer
   CONTENT: - - -
   CHEMICAL FORMULA: \([C_2H_5C_6H_4CHCH_2]x ([CH_2CH_2C_6H_4]y\)
   CAS No.: Not established
   TSCA INVENTORY: Listed
   EINECS No.: Not established
   EC INDEX No.: Not established

4. FIRST AID MEASURES
   GENERAL ADVICE:
   Wash off immediately 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.
   NHALATION:
   Move victim to fresh air. If breathing is difficult, give oxygen. Consult a physician immediately.
   SKIN CONTACT:
   Remove contaminated clothes and shoes, rinse skin with plenty of water or shower. Use soap to help assure removal. Consult a physician immediately.
   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. Consult a physician immediately.
   INGESTION:
   Rinse mouth, give plenty of water to dilute the substance. Do not induce vomiting. Never give anything by mouth to an unconscious person. Consult a physician immediately.

5. FIRE FIGHTING MEASURES
   EXTINGUISHING MEDIA:
   Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
   FIRE & EXPLOSION HAZARDS:
   Toxic, irritating, dust or smoke may be emitted.
   SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS:
   Fireman should wear self-contained breathing apparatus for firefighting if necessary.
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.

METHODS FOR CLEANING UP: Do not touch spilled material without suitable protection. Absorb spilled material in a suitable absorbent (e.g. rag, dry sand, earth, saw-dust). Then, wash the spill site with soap and water and ventilate the area. Pull all wastes 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 material with suitable protection.

STORAGE: Store away from sunlight in well-ventilated dry place at room temperature. Keep container tightly closed.

INCOMPATIBLE PRODUCTS: Moisture, oxidizers and strong acids

8. EXPOSURE CONTROL/PERSONAL PROTECTION

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

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

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: Chemical resistant gloves

EYE PROTECTION: Safety glasses(goggles)

SKIN PROTECTION: Protective clothing

CONTROL PARAMETERS:

ACGIH: 3 mg/m³ as respirable; 10 mg/m³ as inhalable; PNOS

OSHA PEL: TWA 15 mg/m³(total), TWA 5 mg/m³(resp.) as Particulates not otherwise regulated(PNOS)

NIOSH REL: Not established

9. PHYSICAL AND CHEMICAL PROPERTIES

SHAPE: Powder

COLOR: White

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

RELATIVE DENSITY: No data available

SOLUBILITY IN

Water: Insoluble

Organic solvent: No data available

DECOMPOSITION TEMPERATURE: No data available

10. STABILITY AND REACTIVITY

REACTIVITY: Stable under recommended storage and using conditions.

CHEMICAL STABILITY: Stable under recommended storage and using conditions.

CONDITION TO AVOID: Sunlight, heat, moisture

INCOMPATIBLE MATERIALS: Strong oxidizers, strong acids

HAZARDOUS DECOMPOSITION PRODUCTS: CO, CO²
11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY: No data available
SKIN CORROSION/IRRITATION: No data available
EYE DAMAGE/EYE IRRITATION: No data available
GERM CELL MUTAGENICITY: No data available
TOXIC TO REPRODUCTION: No data available
CARCINOGENICITY: No data available
REPRODUCTIVE TOXICITY: No data available
SPECIFIC TARGET ORGAN TOXICITY: No data available
ASPIRATION TOXICITY: No data available

12. ECOLOGICAL INFORMATION

ECOTOXICITY: No data available
BIODEGRADABILITY: No data available
BIOACCUMULATION POTENTIAL: No data available
MOBILITY IN SOIL: No data available
OTHER ADVERSE EFFECTS: 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

IATA: Not dangerous goods
ADR/RID: Not dangerous goods
DOT(Department of Transportation): Not dangerous goods
MARINE POLLUTANT: Not classified

15. REGULATORY INFORMATION

US REGULATIONS: Labeling according to US Directives; See section 2
EU REGURATIONS: Labeling according to EC Directives; See section 2

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.