SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Porapak P 60/80, 80/100, 100/120
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
FACSIMILE No.: +81-3-5323-6621
PRODUCT No.: 1002-11105, 1002-11108, 1002-11110
SDS No.: 1002-0006

Research use only.

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATION: Not classified
HAZARDS SYMBOL: - - -
SIGNAL WORD: - - -
HAZARD STATEMENTS: - - -
PRECAUTIONARY STATEMENTS: - - -
OTHER INFORMATIONS: May be harmful if inhaled and ingested. May cause eye and skin irritation. Dispose of contents/container in accordance with all applicable regulations.

MOST IMPORTANT HAZARDS: Eye irritation, skin irritation, digestive tract irritation, respiratory tract irritation. Nuisance dust.

EU REGURATIONS (EC) No.1272/2008
Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.
This substance is not classified as dangerous according to Directive 67/548/EEC and 1999/45/EC.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL IDENTITY: Polymer Beads
SYNONYMS: Styrene = Divinylbenzene copolymer
CHEMICAL FOMULA: (-CH2CHC6H5)x (-CH2CHC6H4CHCH2)y
MORECULAR WEIGHT: - - -
CAS NUMBER: Not available
TSCA INVENTRY: Listed
EINECS No.: Not available
EC INDEX NUMBER: Not available

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.

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. 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 amount 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. Consult a physician.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Carbon dioxide, dry chemical powder, foam, water
FIRE & EXPLOSION HAZARDS: Toxic and irritating dust, fumes or smoke may be emitted.
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.

ENVIROMENTAL 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. 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 this product with appropriate protective equipments.

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

INCOMPATIBLE PRODUCTS: Strong oxidizers and strong 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

PERSONAL PROTECTION:
- Respiratory protection: NIOSH/MSHA or European Standard EN149 approved respirator
- HAND PROTECTION: Chemical resistant gloves
- EYE PROTECTION: Safety glasses(goggles)
- SKIN PROTECTION: Protective clothing

CONTROL PARAMETERS
- OSHA PEL: TWA 15 mg/m$^3$ (total), 5 mg/m$^3$ (resp) as PNOR
- NIOSH REL: Not available
- ACGIH: 3 mg/m$^3$ as respirable; 10 mg/m$^3$ as inhalable; PNOS

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Colorless to milky beads
SHAPE: Solid
ODOR: Not available
pH: Not available
BOILING POINT: Not available
MELTING POINT: Not available
FLASH POINT: Not available
FLAMMABILITY: Not available
AUTOIGNITION TEMPERATURE: Not available
VAPOR PRESSURE: Not available
SPECIFIC GRAVITY (DENSITY): Not available
SOLUBILITY IN Water: Insoluble
PARTITION COEFFICIENT; n-octanol/water: Not available
DECOMPOSITION TEMPERATURE: Not available

10. STABILITY AND REACTIVITY

REACTIVITY: Stable under recommended storage conditions.
CHEMICAL STABILITY: Stable under recommended storage conditions.
CONDITION TO AVOID: Sunlight, heat
INCOMPATIBLE MATERIALS: Strong oxidizers and strong acids
HAZARDOUS DECOMPOSITION PRODUCTS: CO, CO$^2$, irritating smoke.
11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY: Not available
SKIN CORROSION/IRRITATION: Not available
EYE DAMAGE/EYE IRRITATION: Not available
RESPIRATORY OR SKIN SENSITIZATION: Not available
GERM CELL MUTAGENICITY: Not available
CARCINOGENICITY: Not available
ADDITIONAL INFORMATION
- NTP: Not listed
- IARC: Not listed
- OSHA: Not listed
- ACGIH: Not listed

12. ECOLOGICAL INFORMATION

ECOTOXICITY: Not available
BIODEGRADABILITY: Not available
BIOACCUMULATION POTENTIAL: Not available
MOBILITY IN SOIL: Not available
OTHER ADVERSE EFFECTS: Not available

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: No

15. REGULATORY INFORMATION

US REGULATIONS
- EPA: EPCRA TPQ = Not listed
  CERCLA RQ = Not listed
- OSHA: Not listed

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

16. OTHER INFORMATION

NOTICE:

The information contained in the MSDS 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.