

SAFETY DATA SHEET

SDS No.5030-0003

Date

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1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : Nucleosil 100-5SB
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. : 5030-01671, 5030-01672
SDS No. : 5030-0003
Research use only.

2. HAZARDS IDENTIFICATION

Nucleosil 100-5SB 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 : Classification not possible
HAZARDS SYMBOL : - - -
SIGNAL WORD : - - -
HAZARD STATEMENTS : - - -
PRECAUTIONARY STATEMENTS : - - -
OTHER INFORMATION : 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.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL IDENTITY : Quaternary ammonium modified silica gel
SYNONYMS : - - -
CHEMICAL FORMULA : $\text{Si}-(\text{CH}_2)_3\text{N}^+(\text{CH}_3)_3$
CONTENT : 100%
CAS No. : 7631-86-9 (silica gel)
TSCA INVENTORY : Listed (silica gel)
EINECS No. : 231-545-4(silica gel)
EC INDEX No. : Not established

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 equipments.
- 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 :
 - OSHA PEL : 80 mg/m³/%SiO₂+2 (as amorphous silica)
 - NIOSH REL : TWA=6mg/m³ (as amorphous silica)
 - ACGIH : respirable dust 3mg/m³(silica gel)
- 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
- SHAPE : Powder
- 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
- DECOMPOSITION TEMPERATURE : 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 : No data available
SKIN CORROSION/IRRITATION : No data available
EYE DAMAGE/EYE IRRITATION : No data available
GERM CELL MUTAGENICITY : 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 : May not occur microbial degradation
BIOACCUMULATION 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

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 regulation; See section 2
EU REGULATIONS : 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.