SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : InertSep GC/NH2
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. : 5010-68020、5010-68022、5010-68023、5010-68024、5010-68025、5010-、
SDS No. : 5010-0209
Research use only.

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATION : Eye damage/irritation : Category 2B
Carcinogenicity : Category 2
Specific target organ toxicity (Single exposure) : Category 3(Airway irritation)
Specific target organ toxicity (Repeated exposure) : Category 1(Respiratory)

HAZARDS SYMBOL :

SIGNAL WORD : Danger
HAZARD STATEMENTS :

H320	Causes eye irritation
H335	May cause respiratory irritation
H351	Suspected of causing cancer
H372	Cause damage to organs through prolonged or repeated exposure

PRECAUTIONARY STATEMENTS :

P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breat hing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove co ntact lenses, if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P314	Get medical attention if you feel unwell.
P337+P313	IF eye irritation persists: Get medical advice/attention.
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

SUBSTANCE/MIXTUER : MIXTUER
This product is a combination of a single component.

CHEMICAL NAME	CONTENT	CHEMICAL FORMULA	CAS RN	TSCA INVENTRY	EINECS No.
Graphite carbon black	100%	C	1333-86-4	--	--
Amorphous precipitated silica	100%	Not disclosed	112926-00-8	--	--

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 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. Consult a physician.

5. FIRE FIGHTING MEASURES

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

FIRE & EXPLOSION HAZARDS : CO are included in a flue gas. Use cylinder-type air respiratory apparatus at the fire extinguishing in the room.
Pay attention to shatter-resistant this product.

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. 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, strong bases, 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

CONTROL PARAMETERS

CHEMICAL NAME	ACGIH	OSHA PEL	NIOSH REL
Graphite carbon black	3.0 mg/m^3	0.5 mg/m^3 (Inhalable dust) 2.0 mg/m^3 (total dust)	Not established
Amorphous precipitated silica	Not established	8 mg/m	Not established

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	:	Black, white
PHYSICAL STATE	:	Solid
ODOR	:	Odorless
MELTING POINT / FREEZING POINT	:	No data available
BOILING POINT OR INITIAL BOILING POINT AND BOILING RANGE	:	No data available
FLAMMABILITY	:	No data available
LOWER AND UPPER EXPLOSION LIMIT / FLAMMABILITY LIMIT	:	No data available
FLASH POINT	:	No data available
AUTO-IGNITION TEMPERATURE	:	No data available
DECOMPOSITION TEMPERATURE	:	No data available
pH	:	No data available
KINEMATIC VISCOSITY	:	No data available
SOLUBILITY IN		
Water	:	No data available
Organic solvent	:	No data available
PARTITION COEFFICIENT		
n-octanol/water (log value)	:	No data available
VAPOUR PRESSURE	:	No data available
DENSITY AND/OR RELATIVE DENSITY	:	No data available
RELATIVE VAPOUR DENSITY	:	Not applicable
PARTICLE CHARACTERISTICS	:	Granular

10. STABILITY AND REACTIVITY

REACTIVITY	:	Stable under recommended using and storage conditions.
CHEMICAL STABILITY	:	Stable under recommended storage and using conditions.
CONDITION TO AVOID	:	Humidity, sunlight, heat, diffusion of dust.
INCOMPATIBLE MATERIALS	:	Acids, oxidizing agents.
HAZARDOUS DECOMPOSITION PRODUCTS	:	CO, CO_2

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY	:	The ATEmix calculation result of 6236.460717 mg/kg is not applicable to the category.
SKIN CORROSION/IRRITATION	:	Not classified as it does not contain any component that falls under the hazard classification above the concentration limit.
EYE DAMAGE/EYE IRRITATION	:	In an eye irritation test (OECD TG 405) using rabbits, it was reported that application of precipitated silica (Sident9) resulted in mild conjunctival redness, but recovery was observed (SIDS (2006), ECETOC JACC (2006)). There are also several reports of studies in which precipitated silica was applied to rabbits, with some reporting no eye irritation and others reporting mild conjunctival irritation that recovered (SIDS (2006)).
SENSITIZATION	:	No data available
GERM CELL MUTAGENICITY	:	No data available

CARCINOGENICITY : In humans, several cohort and within-cohort case-control studies conducted mainly in the United Kingdom, Germany, and the United States have suggested an association between occupational exposure to this substance and excess risk of lung cancer death, although the possibility of a smoking effect cannot be excluded, and results adjusted for the effects of co-exposure to asbestos and talc The results of the study did not support the association, as the significant difference in excess risk of lung cancer mortality disappeared in the results adjusted for the effects of co-exposure to asbestos and talc (IARC 93 (2010), ACGIH (7th, 2011)). Other reports suggest an excess risk of bladder, kidney, stomach, and esophageal carcinogenesis, all of which are considered insufficient evidence to support that this substance is carcinogenic to humans (IARC 93 (2010)).

REPRODUCTIVE TOXICITY : No data available

SPECIFIC TARGET ORGAN TOXICITY -single exposure-

: Silica gel (Syloid 244) has been reported to be an airway irritant (SIDS (2006), ECETOC JACC (2006)).

SPECIFIC TARGET ORGAN TOXICITY -repeated exposure-

: In humans, repeated inhalation exposure to this material at the manufacturing plant was estimated to cause decreased lung function, increased frequency of respiratory symptoms, and abnormal findings on chest radiographs, but the results of a large epidemiological study including 19 facilities in 7 European countries showed only a mild decrease in lung function parameters as predicted after 40 years of exposure at a concentration of 1.0 mg/m3 (inhalable dust, 8-hour TWA). (inhalable dust, 8-hr TWA), only a mild decrease in lung function parameters was suggested as a predictive value after 40 years of exposure (SIDS (2007), ACGIH (7th, 2011)). The estimated average FEV1 (volume in one second) values after 40 years of inhalation exposure at 1, 2, and 3.5 mg/m3 (8-hour TWA values) were 49, 91, and 169 mL, respectively, a very small change compared to the average 1,200 mL decrease in FEV1 for an adult male over 40 years as he ages (SIDS (2007), ACGIH (7th, 2011)). (SIDS (2007)). Results from a North American manufacturing plant also showed a similar decline in respiratory function, with a 28 mL decrease in FEV1 after 40 years of exposure to 1 mg/m3 (SIDS (2007)), but both the European and North American results indicated that the decline in FEV1 values as an indicator was within the 95% confidence interval of normal FEV1 values (SIDS (2007)). (ACGIH (7th, 2011)).

ASPIRATION TOXICITY : No data available

12. ECOLOGICAL INFORMATION

ECOTOXICITY : The 72-hour EC50 > 10000 mg/L for algae (Cenedesmus), 24-hour EC50 > 5600 mg/L for crustaceans (Daphnia magna), and 96-hour LC50 > 1000 mg/L for fish (Carassius auratus) (all SIDS, 2007), suggesting that the substance's water solubility (insoluble (HSDB, 2009)) does not indicate the relevant Therefore, it is not classified as a toxic substance.

BIODEGRADABILITY : No data available

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

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).

US REGULATION : OSHA HCS 2012/29 CFR 1910.1200

EU REGULATION : CLP Regulation ((EC) No. 1272/2008)

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.