# SAFETY DATA SHEET

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1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : InertSep GC-e
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. : 5010-68300, 5010-68301, 5010-68302, 5010-68303, 5010-68304, 5010-68305,

5010-

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Research use only.

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATION : Classification not possible

Adverse effects were observed in animal experiments (female rats), but the association to humans in the mechanism and mode of action is not sufficient.

In accordance with GHS rules, this substance cannot be classified.

HAZARDS SYMBOL : --SIGNAL WORD : --HAZARD 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.

3. COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCE/MIXTUER : Substance CHEMICAL NAME : Carbon black

SYNONYMS : --CHEMICAL FORMULA : C
MOLECULAR WEIGHT : --CONTENT : 100%
CAS No. : 1333-86-4
TSCA INVENTRY : Listed
EINECS No. : 215-609-9
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.

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.

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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.

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 : 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 :  $TWA=3.5mg/m^3$ OSHA PEL :  $TWA=3.5mg/m^3$ NIOSH REL :  $TWA=3.5mg/m^3$ 

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

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9. PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE** Black powder

PHYSICAL STATE Solid **ODOR** Odorless

MELTING POINT / FREEZING POINT

: > =3000 °C

BOILING POINT OR INITIAL BOILING POINT AND BOILING RANGE

: >= 3000 °C

**FLAMMABILITY** : Non Flammable

LOWER AND UPPER EXPLOSION LIMIT / FLAMMABILITY LIMIT

Not applicable

**FLASH POINT** : No data available **AUTO-IGNITION TEMPERATURE :** 290 - 520 °C

**DECOMPOSITION TEMPERATURE** 

: No data available

No data available pН KINEMATIC VISCOSITY Not applicable

**SOLUBILITY IN** 

Water Insoluble Organic solvent Insoluble

PARTITION COEFFICIENT

n-octanol/water (log value) No data available VAPOUR PRESSURE : No data available

DENSITY AND/OR RELATIVE DENSITY

1700 - 1900 kg/m<sup>3</sup>

RELATIVE VAPOUR DENSITY : Not applicable PARTICLE CHARACTERISTICS : 100/200mesh

10. STABILITY AND REACTIVITY

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

CONDITION TO AVOID Sunlight, heat, moisture, CO2, oxidizers, acids

**INCOMPATIBLE MATERIALS** Oxidizers, acids

HAZARDOUS DECOMPOSITION PRODUCTS : CO, CO2

11. TOXICOLOGICAL INFORMATION

**ACUTE TOXICITY** : LD0 value of >8000 mg/kg bw for rats (IUCLID (2000))

LD50 value is >3 mg/kg for rabbits (RTECS (2008)

: Results of "no irritating" in 4 tests with rabbits (one test was conducted SKIN CORROSION/IRRITATION

according to OECD TG404) (IUCLID (2000)).

EYE DAMAGE/EYE IRRITATION Based on results of "no irritating" in 3 tests with rabbits (IUCLID (2002)), the

> substance was classified as "Not classified". Although there is a result of "irritating" in a human test (IUCLID (2002)), the details are not clear. It has been suggested that the fine grain may be irritating mechanically (HSDB

(2003)).

SENSITIZATION No data available

GERM CELL MUTAGENICITY Although there is a positive result in a rat alveolar cell HPRT gene mutation

test by inhalation exposure and intratracheal administration (in vivo somatic cell mutagenicity test) (DFGOT vol.18 (2002)), this positive result is considered not to indicate the germ cell mutagenicity of carbon black since it is thought to be induced by the polycyclic aromatic hydrocarbons present in the

substance or by reactive oxygen species due to inflammation reaction.

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#### CARCINOGENICITY

Based on the classification of "Group 2B" in IARC and Category 2B in Japan Society For Occupational Health (JSOH), the substance was classified into Category 2. In a 24-month inhalation test in rats, the incidence of primary lung neoplasms was increased significantly and was dose related The types of neoplasms were identical and included benign adenomas, malignant adenocarcinomas, squamous-cell carcinomas, and adenosquamous carcinomas (EHC No.171 (1996)). In a rat test, the 43-week and 86-week exposure groups had a lung tumour rate of 18% and 8%, respectively, with no tumours observed in the control group (IARC vol.65 (1996)).

IARC in group 2B (IARC 93 (2010)), ACGIH is classified into A3 (ACGIH (7th, 2011)), which is based on inhalation experiments by rats.

For humans, epidemiological studies in Europe and the United States have also been concluded as "inappropriate as evidence to classify carcinogenicity" due to inadequate methodological deficiencies and lack of number of subjects to be investigated.

REPRODUCTIVE TOXICITY : No data available SPECIFIC TARGET ORGAN TOXICITY -single exposure-

: Although there is a report of behavioral somnolence as a symptom after oral administration to rats (15,400 mg/kg) (RTECS (2008)), the details are unknown, therefore, classification was not possible due to lack of sufficient data.

# SPECIFIC TARGET ORGAN TOXICITY -repeated exposure-

Numerous epidemiological tests for carbon black workers were conducted. In workers exposed for long term (10 years and more), the following symptoms characteristic of the lung occurred; cough, sputum, chronic bronchitis, lung function disturbances, pneumoconiosis, emphysema, disturbance of lung perfusion, obstructive disturbance of ventilation, bronchial hyper-reactivity and decrease in airway resistance and expiratory flow (IARC vol.65 (1996)). In addition, it was reported that fine, diffuse changes were observed in the chest radiogram, and histological examination revealed deposits of carbon black particles and reticular fibrosis with associated emphysema (IARC vol.65 (1996)).

### ASPIRATION TOXICITY : No data available

## 12. ECOLOGICAL INFORMATION

ECOTOXICITY

Classified into Not classified since it is suggested not to show the toxicity at the concentration of water solubility (insoluble (HSDB,2009)) from its 72h-ErC50 >10000 mg/L for algae (Scenedesmus) (SIDS,2006), its 24h-LC50 >5600 mg/L for Crustacea (Daphnia magna) (SIDS,2006) and its 96h-LC50 >1000 mg/L for fish (Tribolodon hakonensis) (SIDS,2006).

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

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)

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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.