

SAFETY DATA SHEET

SDS No.5010-0147

Revised date May 23, 2019

1/4 page

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : InertSep AL (AL-N, AL-A, AL-B)
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. : 5010-61360~5010-61368, 5010-61380~5010-61388, 5010-61400~5010-61408,
5010-63361~5010-63363, 5010-63381~5010-63383, 5010-63401~5010-63403,
5010-65360~5010-65362, 5010-65380~5010-65382, 5010-65400~5010-65403,
5010-69012~5010-69014, 5010-27493, 5010-
SDS No. : 5010-0147
Research use only.

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATION : Specific target organ toxicity (Single exposure)
: Category 3(respiratory irritation)
Specific target organ toxicity (Repeated exposure)
: Category 1(lungs; inhalation)

HAZARDS SYMBOL :



SIGNAL WORD : Danger

HAZARD STATEMENTS :

H335 : May cause respiratory irritation
H372 : Cause damage to organs through prolonged or repeated exposure

PRECAUTIONARY STATEMENTS :

P260 : Do not breathing dust.
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.
P304+P340 : IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P314 : Get medical attention if you feel unwell.
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.

MOST IMPORTANT HAZARDS : eye irritation, skin irritation, respiratory tract irritation

3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL IDENTITY : Aluminium oxide
SYNONYMS : InertSep AL
CHEMICAL FORMULA : Al₂O₃
CONTENT : > 99 %
MOLECULAR WEIGHT : 101.9
CAS RN : 1344-28-1
TSCA INVENTORY : Listed
EINECS No. : 215-691-6

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 and gargle. 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 : 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 : In case of insufficient ventilation, wear suitable respiratory equipment. Avoid raising dust and avoid contact with skin and eyes.
- ENVIROMENTAL PRECATIONS : Prevent spills from entering sewers, watercourses or low areas.
- 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 well-ventilated dry place at room temperature. Keep this product in a prepared bag tightly closed.
- INCOMOPATIBLE PRODUCTS : Strong oxidizers, strong acids and strong bases.

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
- RESPRATORY 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 : Not established
- OSHA PEL : TWA 15mg/m³(8h, total dust), 5mg/m³(8h, respirable dust)
- NIOSH REL : Not established

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	: White
PHYSICAL STATE	: Solid (powder)
ODOR	: Odorless
pH	: 3.5 - 4.5(AL-A), 6.5-7.5(AL-N), 9-10(AL-B) *Wetted surface
BOILING POINT	: 2,977 - 3,000°C
MELTING POINT	: 2,053 - 2,072°C
FLASH POINT	: No data available
FLAMMABILITY	: No data available
AUTOIGNITION TEMPERATURE	: No data available
VAPOR PRESSURE	: No data available
SPACIFIC GRAVITY (DENSITY)	: 3.97 - 4.0
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 storage conditions.
CHEMICAL STABILITY	: No data available
CONDITION TO AVOID	: Sunlight, heat, moisture, raising dust
INCOMPATIBLE MATERIALS	: Strong oxidizers, strong acids and strong bases
HAZARDOUS DECOMPOSITION PRODUCTS	
	: No data available

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY -oral-	: rat LD50>5,000 mg/kg(IUCLID,2000)
SKIN CORROSION/IRRITATION	: No data available
EYE DAMAGE/EYE IRRITATION	: No data available
RESPIRATORY OR SKIN SENSITIZATION	
	: No data available
GERM CELL MUTAGENICITY	: Lack of data
CARCINOGENICITY	: Category A4 in ACGIH
REPRODUCTIVE TOXICITY	: No data available
SPECIFIC TARGET ORGAN TOXICITY -single exposure-	
	: irritating to upper respiratory tract (ICSC,2000)
SPECIFIC TARGET ORGAN TOXICITY -repeated exposure-	
	: Fibroid lung by occupational long term exposure (EHC,1997)
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

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.