

SAFETY DATA SHEET

SDS No.1001-53400

Date

August 30, 2017

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1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : Unicarbon A-400
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. : 1001-53400, 1001-, 1003-
SDS No. : 1001-53400
Research use only.

2. HAZARDS IDENTIFICATION

Unicarbon A-400 is a set product consisted of two packing materials, a column for GC analysis and a pre-column. And this product is using for such as chromatography analysis, researched and developments.

《Packing material for Analysis column》

GHS CLASSIFICATION : Classification not possible
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.

《Packing material for Pre-column》

GHS CLASSIFICATION : Eye damage/irritation : Category 2B
Sensitization - skin - : Category 1
Specific target organ toxicity (Single exposure) : Category 1(central nervous system, blood system, kidneys, liver)
Specific target organ toxicity (Repeated exposure) : Category 1(Blood system)
: Category 2(testes)

HAZARDS SYMBOL :



SIGNAL WORD : Danger

HAZARD STATEMENTS :

H320 Cause eye irritation
H317 May cause an allergic skin reaction
H370 Cause damage to organs
H372 Cause damage to organs through prolonged or repeated exposure
H373 May cause damage to organs through prolonged or repeated exposure

PRECAUTIONARY STATEMENTS :

P260 Do not breathing dust/fume/gas/mist/vapours/spray.
P264 Wash hands thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P272 Contaminated work clothing should be allowed out of the workplace.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical attention.
P302+P352 IF ON SKIN: Wash with plenty of water.
P333+P313 If skin irritation or rash occurs: Get medical attention.

P362+P364 Take off contaminated clothing and wash it before reuse.
 P308+P311 IF exposed or concerned: Call a POISON CENTER or doctor.
 P314 Get medical attention if you feel unwell.
 P405 Store locked up.
 P501 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 : Mixture

《Packing material for Analysis column》

| CHEMICAL NAME | CONTENT | CHEMICAL FORMULA | CAS No. | TSCA INVENTORY | EINECS No. | EC INDEX No. |
|-----------------------------|---------|---|-----------|----------------|------------|-----------------|
| Picric acid | 0.19 % | C ₆ H ₃ N ₃ O ₇ | 88-89-1 | Listed | 201-865-9 | 609-009-00-X |
| Graphite carbon (synthetic) | 99.81 % | C | 7782-42-5 | Listed | 231-955-3 | Not established |

《Packing material for Pre-column》

| CHEMICAL NAME | CONTENT | CHEMICAL FORMULA | CAS No. | TSCA INVENTORY | EINECS No. | EC INDEX No. |
|--------------------|---------|---|------------|----------------|------------|-----------------|
| Picric acid | 10 % | C ₆ H ₃ N ₃ O ₇ | 88-89-1 | Listed | 201-865-9 | 609-009-00-X |
| Diatomaceous earth | 90 % | SiO ₂ | 91053-39-3 | Listed | 293-303-4 | 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. Do not rub eyes. 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 : 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.

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 | OSHA | NIOSH |
|--------------------|----------------------------|---|--|
| Picric acid | 0.1 mg/m ³ | | |
| Graphite carbon | 2 mg/m ³ (resp) | 15 mg/m ³ (total) 5 mg/m ³ (resp) | Not established |
| Diatomaceous earth | Not established | 80 mg/m ³ /%SiO ₂ +2 (as amorphous silica) | 6 mg/m ³ (as amorphous silica) |

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 to pale yellowish-white, powder (Diatomaceous earth)
Black, powder (Graphite carbon)
- 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 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 | : This mixture is not classified. |
| SKIN CORROSION/IRRITATION | : No data available |
| EYE DAMAGE/EYE IRRITATION | : Picric acid; rabbit, Class 2B |
| SKIN SENSITATION | : Picric acid; effect to marmot and human. (DFGOT vo.17(2002), ACGIH(7th, 2001)). |
| GERM CELL MUTAGENICITY | : No data available |
| TOXIC TO REPRODUCTION | : No data available |
| CARCINOGENICITY | : No data available |
| REPRODUCTIVE TOXICITY | : No data available |
| SPECIFIC TARGET ORGAN TOXICITY (Single exposure) | : Picric acid; effect to human (CERI hazard data 98-30(1999), Risk assessment vol.3(2004)). |
| SPECIFIC TARGET ORGAN TOXICITY (Repeated exposure) | : Picric acid; animal, effect to blood (Ministry report, 2001) |
| ASPIRATION TOXICITY | : No data available |

12. ECOLOGICAL INFORMATION

| | |
|---------------------------|--|
| ECOTOXICITY | : Picric acid; Mysidopsis bahia, LC50=19.7mg/L,96h(CERI Hazard data, 1999) |
| BIODEGRADABILITY | : May not occur microbial degradation. |
| 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

| | |
|----------------|--|
| 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.