

SAFETY DATA SHEET

SDS No.1050-0028

Date

March 5, 2025

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1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : MonoTrap (DSC18, RSC18, DCC18, RCC18, RSC18TD, RGC18TD)
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. : 1050-71101, 71201, 72101, 72201, 73201, 74201, 1050-
SDS No. : 1050-0028
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 : - - -
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.

MOST IMPORTANT HAZARDS : Eye irritation, skin irritation, digestive tract irritation, respiratory tract irritation.

3. COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCE / MIXTURE : Mixture
COMMON CHEMICAL NAME : MonoTrap (DSC18, RSC18, DCC18, RCC18, RSC18TD, RGC18TD)
CUSTOMARY OR ALIAS NAME : Octadecyl group chemically bonded monolith silica gel
CAS RN : 112926-00-8

CHEMICAL NAME	ADDITIVE	ADDITIVE CONTENT	CHEMICAL FORMULA	ADDITIVE CAS No.	TSCA INVENTORY	EC INDEX No.
MonoTrap DSC18		--	Si-(CH ₂) ₁₇ CH ₃	--	--	--
MonoTrap RSC18		--		--	--	--
MonoTrap DCC18	Activated carbon	5-10%		7440-44-0	Listed	Not established
MonoTrap RCC18	Activated carbon	5-10%		7440-44-0	Listed	Not established
MonoTrap RSC18TD		--		--	--	--
MonoTrap RGC18TD	Graphite carbon black	5-10%		1333-86-4	Listed	215-609-9

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 : 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

CHEMICAL NAME	ACGIH TLV	OSHA PEL	NIOSH REL
Monolith silica gel	Not established	TWA 15 mg/m ³ (total) TWA 5 mg/m ³ (resp) as PNOS	Not established
Activated carbon Graphite carbon black	Not established	15 mg/m ³ (total) 5 mg/m ³ (resp)	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

PHYSICAL STATE : Solid

COLOUR : Black~Grey

ODOUR : 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 : Not applicable
 SOLUBILITY : Insoluble
 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 : Not applicable

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 : No data available
 SKIN CORROSION/IRRITATION : No data available
 EYE DAMAGE/EYE IRRITATION : No data available
 RESPIRATORY OR SKIN SENSITIZATION
 : 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 : 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

International Regulations

Maritime regulations : Conform to the provisions of IMO.
 UN No. : Not regulated
 Proper Shipping Name : -
 Class : -
 Packing Group : -
 Marine Pollutant : Not applicable
 Aviation regulations : Conform to the provisions of ICAO/IATA.
 UN No. : Not regulated
 Proper Shipping Name : -
 Class : -
 Packing Group : -

15. REGULATORY INFORMATION

This SDS has been prepared in accordance with Japanese laws and regulations and has not been prepared based on research into the local laws and regulations of each country.

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.