

SAFETY DATA SHEET

SDS No.1002-0012

Date

January 16, 2015

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1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : TENAX TA
NAME OF MANUFACTURER : 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. : 1002-31102, 1002-31103, 1002-31106, 1002-31108, 1002-31202, 1002-31203, 1002-31206, 1002-31208
SDS No. : 1002-0012
Research use only.

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATION : Classification not possible
HAZARD SYMBOL : - - -
HAZARD STATEMENTS : - - -
PRECAUTIONARY STATEMENTS : - - -
HAZARD INFORMATION : May cause respiratory tract irritation if inhaled.
May cause eye, skin and mucous irritations if contact with.
May be harmful if ingested.
May induce damage to the lung through prolonged or repeated exposure.
MOST IMPORTANT HAZARDS : Irritation of eyes, skin, respiratory system.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME : Poly(2,6-diphenyl 1,4-phenyleneoxide)
CONTENT : 100%
SYNONYMS : - - -
CHEMICAL FORMULA : $(C_6H_5)_2C_6H_3O-[(C_6H_5)_2C_6H_2O-]_n(C_6H_5)_2C_6H_2OH$
CAS No. : 24938-68-9
TSCA INVENTORY : Not established
EINECS No. : Not established
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. If breathing is difficult, give oxygen.
Consult a physician immediately.
SKIN CONTACT : Remove contaminated clothes and shoes, rinse skin with plenty of water or shower. Use soap to help assure removal. Consult a physician immediately.
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. Consult a physician immediately.
INGESTION : Rinse mouth, give plenty of water to dilute the substance. Do not induce vomiting. Never give anything by mouth to an unconscious person. Consult a physician immediately.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
FIRE & EXPLOSION HAZARDS : Toxic, irritating, dust or smoke may be emitted.
SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS : Fireman should wear self contained breathing apparatus for fire fighting if necessary.

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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.
- METHODS FOR CLEANING UP : Do not touch spilled material without suitable protection. Absorb spilled material in a suitable absorbent (e.g. rag, dry sand, earth, saw-dust). Then, 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 material with suitable protection.
- STORAGE : Store away from sunlight in well-ventilated dry place at room temperature. Keep container tightly closed.
- INCOMPATIBLE PRODUCTS : Moisture, oxidizers and strong acids

8. EXPOSURE CONTROL/PERSONAL PROTECTION

- ENGINEERING MEASURES : Use exhaust ventilation to keep airborne concentrations below exposure limits. Use only with adequate ventilation.
- VENTILATION : Local Exhaust ; Necessary, Mechanical(General) ; Recommended
- 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 : Chemical resistant gloves
 - EYE PROTECTION : Safety glasses(goggles)
 - SKIN PROTECTION : Protective clothing
- CONTROL PARAMETERS
 - OSHA PEL : Not established
 - NIOSH REL : Not established
 - ACGIH : Not established

9. PHYSICAL AND CHEMICAL PROPERTIES

- SHAPE : Powder
- COLOR : White
- ODOR : No data available
- 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
- RELATIVE DENSITY : 0.25 g/cm³
- SOLUBILITY IN
 - Water : insoluble
 - Organic solvent : No data available
- DECOMPOSITION TEMPERATURE : No data available

10. STABILITY AND REACTIVITY

- REACTIVITY : No data available
- CHEMICAL STABILITY : No data available
- CONDITION TO AVOID : Sunlight, heat, moisture, diffusion of particulates
- INCOMPATIBLE MATERIALS : Strong oxidizers, strong acids
- HAZARDOUS DECOMPOSITION PRODUCTS : CO, CO₂, silicone compounds

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY : No data available
SKIN CORROSION/IRRITATION : No data available
EYE DAMAGE/EYE IRRITATION : No data available
GERM CELL MUTAGENICITY : No data available
TOXIC TO REPRODUCTION : No data available
CARCINOGENICITY : No data available

POTENTIAL HEALTH EFFECTS

Inhalation : May be harmful if inhaled. May cause respiratory tract irritation.
Ingestion : May be harmful if swallowed.
Skin : May be harmful if absorbed through skin. May cause skin irritation.
Eyes : May cause eye irritation.

ADDITIONAL INFORMATION : 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

US REGULATIONS : Labeling according to US Directives; 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.