

1. PRODUCT IDENTIFICATION

Trade Name: PEMAX Reagent 50 Monodoses (Std. Buffer)

Article number: 4900013150

Application: Laboratory chemicals, photochemical cross link of soluble nucleic acids.

Supplier Company:

Instruments Útils de Laboratori GeniUL, S.L.
 Edifici GAIA – Parc UPC
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 08222 Terrassa (Barcelona)
 Spain

Phone / Fax: (+34) 93 619 03 12 / (+34) 93 274 01 44

E-mail address: geniul@geniul.com

Emergency Phones: <http://apps.who.int/poisoncentres/> (The International Program on Chemical Safety- IPCS)
<http://www.eapcct.org/index.php?page=home> (European Association of Poisons Centers)

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

- Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]

Specific target organ toxicity - single exposure (Category 3)
 Skin irritation (Category 2)
 Eye irritation (Category 2)

- Classification according to EC directives 67/548/EEC – 1999/45/EC

Irritating to eyes, respiratory system and skin

- US Federal Regulations

Us Toxic Substances Control Act (TSCA): Not listed.
 SARA 302: No chemicals were found.
 SARA 313: No chemicals were found.
 SARA 311/312 Hazards: No chemicals were found

Label elements

- Labeling according to Regulation (EC) No 1272/2008 [CLP]

Pictogram



Signal Word

Warning

Hazard statement (s)

H315

Causes skin irritation.

H319

Causes serious eye irritation.

H335

May cause respiratory irritation.

Precautionary statement(s)

P261

Avoid breathing dust / fume / gas / mist / vapors / spray.

P305+P351+P338

If in eyes: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Supplemental Hazard Statement

None

- Labeling according to EC directive 67/548/EEC

Hazard symbol



R-phrase (s)
R36/37/38

Irritating to eyes, respiratory system and skin

S-phrase (s)
S26

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Other hazards

- Chronic effects

The hazardousness has not been thoroughly investigated. This substance interacts with nucleic acids but has a low membrane cellular permeability and for this reason, in most cases, it is unable to enter into cytoplasm of live cells. In vitro, data suggest mutagenic potential in bacterial cells with DNA excision-repair-deficient systems.

<http://www.sciencedirect.com/science/article/pii/S0027510784901374>

After light exposure, the reagent not is functional and can appear traces of different compounds without mutagenic potential.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Classification	Concentration
Photo-reactive azide forms of phenanthridium	H315, H319, H335, R36/37/38, S26	25%

For the full text of the H-Statements and R-Phrases mentioned in this Section, see Section 2.

This product is for research use only. According to 29 CFR 1910.1200(d), mixtures with hazardous ingredients at less than <1% and carcinogens at less than < 0.1% are considered non-hazardous.

4. FIRST AID MEASURES

Eye Contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.

Skin Contact: Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.

Ingestion: Do not induce vomiting. Obtain medical attention.

Inhalation: Move to fresh air. If breathing is difficult, give oxygen. Get medical attention immediately if symptoms occur.

Notes to Physician: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture: Carbon oxides, sodium oxides

6. ACCIDENTAL RELEASE MEASURES

Person-related safety precautions: Use personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing.

Measures for environmental protection: Should not be released into the environment.

Measures for cleaning/collecting: Send for recovery or disposal in suitable containers. Absorb with liquid-binding material (sand, diatomite, universal binders).

7. HANDLING AND STORAGE

Handling: Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

Information for safe handling: Store in tightly closed containers. Keep away from heat and direct sunlight. Avoid contact with eyes and skin.

Information about protection against explosions and fires: No special measures required.

Storage Requirements to be met by storerooms and containers: Store only in the original container. Upon receipt place in lab fridge 0-5 °C. Keep container tightly closed in a dry and well-ventilated place.

Information about storage in one common storage facility: Keep away from strong oxidizing, alkalis and acidic materials

Further information about storage conditions: Store in the dark. Protect from the effects of light

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Components with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Personal protective equipment

Respiratory protection: For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges.

Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or GEN (EU).

Hand protection: Use protective gloves of stable material (i.e nitril rubber). The selected protective gloves have to be according specifications of EU Directive 89/686/EEC and the standards derived from it.

Gloves must be inspected prior to use, use proper glove removal technique to avoid skin contact with this product. Dispose the contaminated gloves after use in accordance with applicable laws and good laboratory practices.

Eye protection: Safety glasses with side-shields. Use equipment for eye protection tested and approved under appropriate government standards NIOSH (US) or EN166 (EU).

Hygiene measures: The usual precautionary measures should be adhered to general rules for handling chemicals. Follow General industrial hygiene practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form: Dry powder
 Color: Brown / Red
 Odor: Not determined

Safety data

Flash point: No data available
 Melting point: 220-230°C
 Water solubility: Fully miscible
 Danger of explosion: Not explosive
 Self-inflammability: Not self-igniting
 pH: No data available
 Density at 20°C: No data available
 Solvent content: No data available

10. STABILITY AND REACTIVITY

Storage stability: Stable under recommended storage conditions.

Dangerous reactions: No dangerous reactions known.

Materials to avoid: Oxidizing agents.

Hazardous decomposition products: None in case of intended use and storage in compliance with instructions. Under fire conditions hazardous decomposition products are formed.

11. TOXICOLOGICAL INFORMATION

Acute toxicity: No data available

Irritation and corrosion: No data available

Sensitization: No data available

Signs and Symptoms of Exposure: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Chronic exposure: No components of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC (International Agency for Research on cancer). This product may contain traces of some chemical precursors that are genotoxic.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Potential Health Effects

Skin: May be harmful if absorbed through skin. May cause skin irritations.

Eyes: May cause eye irritation.

Ingestion: May be harmful if swallowed.

Additional Information

US Registry of toxic Effects of Chemical Substances (RTECS) – not registered but consider equivalent to SF7949600/SF7941850

12. ECOLOGICAL INFORMATION

Elimination information (persistence and degradability): No data available.

Ecotoxicity effects: No data available.

Further information on ecology: No data available.

Do not allow product to reach ground water, water course, or sewage system.

13. DISPOSAL CONSIDERATIONS

Product: Observe all federal, state, and local environmental regulations.

Handling reagent solutions:

Remove reagent from aqueous solutions using the GeniUL D-Bag system, follow the manufacturer's instructions.

Alternatively, offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Recommended cleaning agent: Wear gloves and use instant absorbent powder. Clean area with paper towels and then dispose of them in the provided container. Finally clean with Bleach aqueous solution (10%).

14. TRANSPORT INFORMATION

ADR/RID: Not dangerous goods.

IMDG: Not dangerous goods.

IATA: Not dangerous goods.

15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of regulation (EC) No. 1907/2006

16. OTHER INFORMATION

These data are based on our present knowledge and is applicable to the product with regard to appropriate safety precautions and shall be used only as a guide. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

This product is sold for research purposes

It is not intended for food, drug, household, agricultural or cosmetic use. Its use must be supervised by a technically qualified individual experienced in handling potentially hazardous chemicals. Users should make independent decisions regarding completeness of the information based on all sources available. GeniUL shall not be held liable for any damage resulting from handling or contact with the above product.