



Section 1 - Product and Company Identification

Product Name: **RG (Regular Grade) Zorbax-Phenyl Column Packing Material**

Agilent Part Number: **820962-012**

Date Prepared: **01/23/02**

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Manufacturer's Name:

**AGILENT TECHNOLOGIES, INC.
2850 Centerville Road
Wilmington, Delaware 19808**

Emergency Telephone Number: **1-302-633-8899**

Telephone Number for Information: **1-877-4Agilent**

European Information Telephone Number: **(7243) 602-2**

When Calling from Outside the USA You May Also Dial Your International Access Code for the USA, then 1, then 302 633 8899

Section 2 - Composition/Information on Ingredients

A container of Zorbax sorbent material with a phenyl (C₆H₅) group bonded to silica gel [112926-00-8]

Chemical Families: Inorganic oxide with organic component

Chemical Synonyms: Silica gel is also known as *amorphous quartz; precipitated silica and amorphous silica*

Section 3 - Hazards Identification

Irritating to the Eyes and Respiratory System

Harmful if inhaled

Do not breathe dust

Section 4 - First-Aid Measures

Inhalation: Harmful if inhaled. If inhaled, move victim to fresh air. If breathing is difficult give oxygen. If breathing has stopped begin resuscitation measures. Contact physician.

Skin Contact: Wash with soap and water.

Eye Contact: Contamination of the eyes should be treated by immediate and prolonged irrigation with copious amounts of water by separating the eyelids with fingers. Contact Physician.

Ingestion: If swallowed, wash out mouth with water provided victim is conscious. Call a physician

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Section 5 - Fire-Fighting Measures

Extinguishing Media: Noncombustible

Special Fire Fighting Procedures: Wear full protective clothing and self contained positive pressure breathing apparatus certified by NIOSH when fighting chemically related fires.

Unusual Fire and Explosion Hazards: None

Section 6 - Accidental Release Measures

Wearing appropriate personal protective equipment, shovel or sweep up using a dust suppresser. Vacuum the remainder of the smaller quantities using a HEPA-type vacuum. Avoid inhaling dust.

Place waste in a plastic bag or other suitable container and dispose of as residual waste. This material is not defined as hazardous waste by RCRA (40 CFR Part 261) and may be landfilled according to federal, state and local regulations.

Section 7 - Handling and Storage

Do not breathe dust and avoid contact with eyes. Wash thoroughly after handling.

Maintain good housekeeping practices. Avoid creating dust. Keep containers closed. Keep away from strong acids. Store in a cool, dry place.

Section 8 - Exposure Controls/Personal Protection

Ventilation: Adequate ventilation is required to protect personnel from exposure to chemical vapors exceeding PEL and to minimize fire hazards. See Section 15 for regulatory standards of exposure.

Respiratory: Use NIOSH approved respirator equipment.

Eyes: Safety glasses are considered minimum protection. Chemical safety goggles or face shield may be necessary depending on quantity of material and conditions of use. Emergency eye wash fountains should be available in the vicinity of any possible exposure.

Skin: Chemical-resistant protective gloves and clothing are recommended. The choice of protective gloves or clothing must be based on chemical resistance and other user requirements. Generally BUNA-N offers acceptable chemical resistance. Individuals who are acutely and specifically sensitive to this chemical may require additional protective clothing.



Section 9 - Physical and Chemical Properties (Quartz)

Flash Point (Method Used): **NA**
Explosion Potential: LEL (**NA**)/UEL (**NA**)
Specific Gravity (H2O = 1): **2.600**
Melting Point (Degree C): **1610**
Evaporation Rate (n-butyl acetate =1) **NA**
Boiling Point (Degree C): **2590**
Vapor Pressure (mm Hg at 25°C): **ND**
Vapor Density (Air =1): **NA**
Odor Threshold: **ND**
Octanol/Water Partition Coefficient: **NA**
Solubility in Water: Insoluble (**X**) /Soluble ()
Appearance and Odor: **White powder, 5 m particle size**

Section 10 - Stability and Reactivity

Stability: Stable (x) / Unstable ()
Conditions to Avoid: NA
Incompatibility (Materials to Avoid): Strong acids
Hazardous Decomposition or Byproducts: NA
Hazardous Polymerization: May Occur () / Will Not Occur (x)

Section 11 - Toxicological Information

Route(s) of Entry: Inhalation? **Yes** Skin? **No** Ingestion? **No**
Harmful if swallowed.
Health Hazard Acute/Chronic: This product does not contain crystalline silica (CA) which is considered hazardous by inhalation.
Carcinogenicity: NTP? **No**
IARC Monographs? **No**
OSHA Regulated? **No**
OTHER? **No**

Medical Conditions Generally Aggravated by Exposure: Preclude from exposure those persons with preexisting upper respiratory and lung disease such as, but not limited to, bronchitis, emphysema and asthma.

Section 12 - Ecological Information

Persistence/Degradability: NA
Biodegradability: Will not biodegrade
Bioaccumulation: NA

Section 13 - Disposal Considerations

Wastes are not hazardous as defined by RCRA (40 CFR Part 261). This material may be landfilled according to federal, state and local regulations.

Section 14 - Transport Information**DOT Regulations:**

Shipping Name: Non-regulated Material

IATA-DGR Regulations:

Shipping Name: Nonregulated Material

RID/ADR: NA

ADNR: NA

Section 15 - Regulatory Information**Exposure Limits:**

Chemical Name	CAS #	OSHA PEL/TWA	ACGIH TLV/TWA	NIOSH TLV/TWA	% Wt/ Weight
Silica gel:	[112926-00-8]	80 mg/m3 as SiO ₂	10 mg/m3 Total dust	6 mg/m3	44%

SARA Reporting

Section 302: None

Section 304: None

Section 313: None

Labeling Requirements:

Irritant

TSCA Information: All ingredients on list

Section 16 - Other Information

Unless otherwise noted, the above information pertains only for the base material and similar types of components in the sample.

When no toxicity data is provided, it is prudent to handle this chemical as hazardous. Furthermore, since individual chemical hypersensitivity cannot be predicted, every chemical should be handled with due respect.



EUROPEAN INFORMATION (Silica)

CAUTION: SUBSTANCE NOT YET FULLY TESTED.

HARMFUL

R 20: Harmful by inhalation.

R 36/37: Irritating to eyes and respiratory system.

S 26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 36: Wear suitable protective clothing.

S 22: Do not breathe dust.

KEY TO ABBREVIATIONS

ACGIH - American Conference of Governmental Industrial Hygienists`

ADNR - Regulations concerning the carriage of dangerous goods on the Rhine

CAS - Chemical Abstract Service

DOT - US. Department of Transportation 49 Code of Federal Regulations

IARC - International Agency for Research on Cancer

IATA-DGR - International Air Transport Association- Dangerous Goods

LEL - Lower Explosion Limit

NA - Not Applicable

ND - No Data

NIOSH - National Institute for Occupational Safety and Health

NTP - National Toxicology Program

OSHA - Occupational Safety and Health Administration

PEL - Permissible Exposure Limit

RID/ADR - Regulations Concerning the International Carriage of

TLV - Threshold Limit Value

TWA - Time Weighted Average

UEL - Upper Explosion Limit

[] - Indicates CAS Number