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Material Safety Data Sheet

Revision Date: 04/16/2002



Restek Corporation

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I. PRODUCT IDENTIFICATION

Catalog Number / Product Name: 22604 & 22605 / UOP mat/sen Gas-Specific Purifier Modules
Revision Number: 1
Prior Version Date: None
Intended use: For Laboratory use only

II. COMPOSITION/INFORMATION ON INGREDIENTS AND CONTROL PARAMETERS:

Chemical Name	CAS #	% Composition	IDLH	ACGIH STEL	ACGIH TLV-TWA	Osha Exposure Limits
silicon oxide	7631-86-9	<55.00	3000 mg/m3 IDLH		No TLV	No PEL established
aluminum oxide	1344-28-1	<30.00	ND		10 mg/m3 TWA (as Al, the value is for total dust containing no asbestos and < 1% crystalline silica)	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)
aluminosilicate	1327-36-2	<13.00	ND		No TLV	No PEL established
sodium oxide	1313-59-3	<7.00	ND		No TLV	No PEL established
water	7732-18-5	<4.00	ND		No TLV	No PEL established
potassium oxide	12136-45-7	<3.00	ND		No TLV	No PEL established
magnesium oxide	1309-48-4	<3.00	750 mg/m3 IDLH		10 mg/m3 TWA (fume)	15 mg/m3 TWA (total particulate)
calcium oxide	1305-78-8	<2.00	25 mg/m3 IDLH		2 mg/m3 TWA	5 mg/m3 TWA
quartz	14808-60-7	<1.00	25 mg/m3 IDLH (cristobalite, tridymite); 50 mg/m3 IDLH (quartz, tripoli)		0.05 mg/m3 TWA (respirable fraction)	No PEL established

III. HAZARDS IDENTIFICATION

Chemical Interactions That Change Toxicity: None Known

Immediate (Acute) Health Effects by Route of Exposure:

Primary Routes of Exposure: The product is in a sealed container. As long as the container is not opened, exposure should not take place.

Skin contact: May cause skin irritation with repeated or prolonged exposure.

Eye contact: Dust and/or product may cause eye discomfort and/or irritation seen as tearing and reddening.

Ingestion: This product is considered to have a low order of oral toxicity.

Inhalation: Inhalation of product and/or dust may cause irritation of the respiratory tract.

Long-Term (Chronic) Health Effects:

Carcinogenicity: Contains a known carcinogen. (See sections: XI and XV for more info.)

Reproductive and Developmental Toxicity: No data available to indicate product or any components present at greater than 0.1% may cause birth defects.

Mutagenicity: No data available to indicate product or any components present at greater than 0.1% is mutagenic or genotoxic.

IV. FIRST-AID MEASURES

Material Safety Data Sheet

Revision Date: 04/16/2002

Notes to Doctor: Hydrocarbons and other materials that contact the product during normal use can be retained on the product. The retained materials may be hazardous. Identify the retained material and treat accordingly.

V. FIRE FIGHTING MEASURES

Fire Fighting Methods and Protection: Will not burn, no special instructions available. Use methods appropriate for surrounding materials.

Hazardous Combustion Products: None Known

VI. ACCIDENTAL RELEASE MEASURES

VII. HANDLING AND STORAGE

Recommended storage: Room Temperature.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Measures: No exposure limits exist for the constituents of this product. No engineering controls are likely to be required to maintain operator comfort under normal conditions of use.

Respiratory Protection: No respiratory protection required under normal conditions of use.

Skin Protection: Not normally considered a skin hazard. Where use can result in skin contact, practice good personal hygiene. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

Gloves: No information available

IX. PHYSICAL AND CHEMICAL PROPERTIES

Odor: None

Solubility in Water: Not determined

Vapor Density:

X. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.

Conditions to Avoid: None known.

Materials to Avoid/Chemical Incompatibility: None Known

Hazardous Decomposition Products: None Known

XI. TOXICOLOGICAL INFORMATION

Component Toxicology Data (NIOSH):

Chemical Name	CAS Number	LD50/LC50
No data available		

Component Carcinogenic data (OSHA):

Silica, quartz	14808-60-7	Monograph 68, 1997; (inhaled in the form of quartz or cristobalite from occupational sources); {IARC - Group 1 (carcinogenic to humans)}; Known Carcinogen; {NTP Ninth Report - Known Carcinogens}
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XII. ECOLOGICAL INFORMATION

Overview: Slight ecological hazard. In high concentrations, this product may be dangerous to plants and/or wildlife.

Material Safety Data Sheet

Revision Date: 04/16/2002

Mobility: No data
Persistence: No data
Bioaccumulation: No data
Degradability: No data
Ecological Toxicity Data: 0

XIII. DISPOSAL CONSIDERATIONS

Disposal Methods: Dispose of by waste water treatment following Federal, State, Local, or Provincial regulations.

XIV. TRANSPORTATION INFORMATION

UN Number: NA

XV. REGULATORY INFORMATION

Chemical Name	CAS#	CERCLA	SARA 313	SARA EHS 313	TSCA
silicon oxide	7631-86-9	-	-	-	X
aluminum oxide	1344-28-1	-	X	-	X
aluminosilicate	1327-36-2	-	-	-	X
sodium oxide	1313-59-3	-	-	-	X
water	7732-18-5	-	-	-	X
potassium oxide	12136-45-7	-	-	-	X
magnesium oxide	1309-48-4	-	-	-	X
calcium oxide	1305-78-8	-	-	-	X
quartz	14808-60-7	-	-	-	X

The following chemicals are listed on CA Prop 65:

Chemical Name	CAS #	Regulation	% Range
silica, quartz	14808-60-7	Prop 65 Cancer	0.01-0.1

XVI. ADDITIONAL INFORMATION

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