



FORMAT: USA

MATERIAL SAFETY DATA SHEET

PRODUCT: PENSIL200A

SILICONE FOAM BASE

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURED BY:

GE SILICONES

260 HUDSON RIVER ROAD

WATERFORD, NY 12188

SUPPLIED BY:

GE SILICONES

260 HUDSON RIVER ROAD

WATERFORD, NY 12188

EMERGENCY PHONE (24 HRS)

(518) 237-3330

EMERGENCY PHONE (24 HRS)

(518) 237-3330

REVISED: 04/01/01

PREPARER: CE HANNIGAN

CHEMICAL FAMILY/USE: SILICONE RUBBER SEALANT

FORMULA: MIXTURE

2. COMPOSITION/INFORMATION ON INGREDIENTS

PRODUCT COMPOSITION/ CAS REG NO.	APPROX. WGT. %	ACGIH TLV TWA	OSHA PEL STEL	ACGIH TLV TWA	OSHA PEL STEL	UNITS
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HAZARDOUS

BENZENE

71-43-2	32PPB	0.5	2.5	1	5	PPM
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TOLUENE

108-88-3	<1	50 (SKIN)		100	150	PPM
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2. NON-HAZARDOUS

VINYLPOLYDIMETHYLSILOXANE

68083-19-2	60-80	NA	NE	NA	NE	NA
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CARBON BLACK						
1333-86-4	1-5	3.5	NE	3.5	NE	MG/M3
WATER						
7732-18-5	1-5	NA	NE	NA	NE	NA
QUARTZ						
14808-60-7	10-30	0.1	NE	0.1	NE	MG/M3
VINYL CONTAINING RESIN						
68584-83-8	5-10	NF	NE	NF	NE	NA

See Section 15 for description of any WHMIS Trade Secret(s).

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3. HAZARDS IDENTIFICATION  
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1

EMERGENCY OVERVIEW:

CAUTION!

May irritate the eyes.

ATTENTION: Not for injection into humans.

May generate formaldehyde at temperatures greater than 150 C (300 F). See Section 3 of MSDS for details.

Odorless

Clear liquid

POTENTIAL HEALTH EFFECTS:

INGESTION:

None known

SKIN CONTACT:

None known.

INHALATION:

None Known.

EYE CONTACT:

May cause mild eye irritation.

MEDICAL CONDITIONS AGGRAVATED:

None known.

SUBCHRONIC (TARGET ORGAN) EFFECTS:

None known

CHRONIC EFFECTS/CARCINOGENICITY:

This product or one of its ingredients present 0.1% or more is NOT listed as a carcinogen or suspected carcinogen by NTP, IARC, or OSHA.

PRODUCTS/INGREDIENTS

This space reserved for special use.

PRINCIPLE ROUTES OF EXPOSURE:

Eyes.

OTHER:

Attention: Not for injection into humans.

This product contains methylpolysiloxanes which can generate formaldehyde at approximately 300 degrees Fahrenheit (150'C) and above, in atmospheres which contain oxygen. Formaldehyde is a skin and respiratory sensitizer, eye and throat irritant, acute toxicant, and potential cancer hazard. An MSDS for formaldehyde is available from GE Silicones.

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4. FIRST AID MEASURES  
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INGESTION:

Do not induce vomiting. If victim is conscious, give 1-3 glasses of water to drink. Never give anything by mouth to an unconscious person. Get medical attention if irritation persists.

1 SKIN:

Wash with soap and water. Get medical attention if irritation or symptoms from Section 3 develop.

INHALATION:

If inhaled, remove to fresh air. If not breathing give artificial respiration using a barrier device. If breathing is

difficult give oxygen. Get medical attention.

EYES:

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

NOTE TO PHYSICIAN:

None known.

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5. FIRE FIGHTING MEASURES  
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FLASH POINT: 177 (C) 350 (F)  
METHOD : TCC  
IGNITION TEMP : UNK (C) UNK (F)  
FLAMMABLE LIMITS IN AIR - LOWER (%): NA  
FLAMMABLE LIMITS IN AIR - UPPER (%): NA  
SENSITIVITY TO MECHANICAL IMPACT (Y/N): NO

SENSITIVITY TO STATIC DISCHARGE:

Sensitivity to static discharge is not expected.

EXTINGUISHING MEDIA:

All standard firefighting media

SPECIAL FIREFIGHTING PROCEDURES:

Firefighters must wear NIOSH/MSHA approved positive pressure self-contained breathing apparatus with full face mask and full protective clothing.

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6. ACCIDENTAL RELEASE MEASURES  
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ACTION TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Wipe, scrape or soak up in an inert material and put in a

container for disposal.

Wash walking surfaces with detergent and water to reduce slipping hazard.

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## 7. HANDLING AND STORAGE

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### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Keep container closed when not in use.

Avoid contact with skin and eyes.

Store away from heat, sources of ignition, and incompatibles.

Keep away from children.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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### ENGINEERING CONTROLS:

Showers and eyewash stations. See "Ventilation" below.

### RESPIRATORY PROTECTION:

If exposure limits are exceeded or respiratory irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Supplied air respirators may be required for non-routine or emergency situations. Respiratory protection must be provided in accordance with OSHA regulations (see 29 CFR 1910.134).

### PROTECTIVE GLOVES:

Cloth gloves.

### EYE AND FACE PROTECTION:

Safety glasses.

### OTHER PROTECTIVE EQUIPMENT:

Wear eye protection and protective clothing.

VENTILATION:

Ventilation and other forms of engineering controls are preferred for controlling exposures. Respiratory protection may be needed for non-routine or emergency situations.

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9. PHYSICAL AND CHEMICAL PROPERTIES  
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PRODUCT INFORMATION:

BOILING POINT : >260 (C) >500 (F)  
VAPOR PRESSURE(20 C)(MM HG): NEG  
VAPOR DENSITY (AIR=1) : NEG  
FREEZING POINT : NA (C) NA (F)  
MELTING POINT : NA (C) NA (F)  
PHYSICAL STATE : LIQUID  
ODOR : SLIGHT  
COLOR : BLACK  
ODOR THRESHOLD (PPM) : UNK  
% VOLATILE BY VOLUME : ~3  
EVAP. RATE(BUTYL ACETATE=1): <1  
SPECIFIC GRAVITY (WATER=1) : 1.21  
DENSITY (KG/M3) : UNK  
ACID/ALKALINITY (MEQ/G) : UNK  
PH : NA  
VOC EXCL.H2O & EXEMPTS(G/L): NT  
1 SOLUBILITY IN WATER (20 C) : MODERATE  
SOLUBILITY IN ORGANIC SOLVENT (STATE SOLVENT): PARTIAL IN TOLUENE

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10. STABILITY AND REACTIVITY  
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STABILITY: STABLE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

HAZARDOUS THERMAL DECOMPOSITION/COMBUSTION PRODUCTS:

Carbon monoxide.

Carbon dioxide.

Silicon dioxide.

Toxic metal fumes.

Oxides of nitrogen.

Formaldehyde.

INCOMPATIBILITY (MATERIALS TO AVOID):

None known.

CONDITIONS TO AVOID:

None known.

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11. TOXICOLOGICAL INFORMATION

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PRODUCT INFORMATION:

ACUTE ORAL LD50 (MG/KG): NF

ACUTE DERMAL LD50 (MG/KG): NF

ACUTE INHALATION LC50 (MG/L): NF

OTHER:

None.

AMES TEST: UNKNOWN

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12. ECOLOGICAL INFORMATION

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ECOTOXICOLOGICAL INFORMATION: No data at this time

CHEMICAL FATE INFORMATION: No data at this time

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13. DISPOSAL CONSIDERATIONS  
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DISPOSAL METHOD:

Disposal should be made in accordance with federal, state and local regulations.

Incineration recommended in approved incinerator according to federal, state, and local regulations.

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14. TRANSPORT INFORMATION  
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DOT SHIPPING NAME: NONE

DOT HAZARD CLASS: NOT REGULATED

DOT LABEL(S): NONE

UN/NA NUMBER: NONE

PLACARDS: NONE

IATA:

NOT REGULATED BY IATA

IMO IMDG-code: NOT REGULATED FOR OCEAN TRANSPORTATION

EMS No: NA

EUROPEAN CLASS:

RID (OCTI): NONE

ADR (ECE) : NONE

RAR (IATA): NONE



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15. REGULATORY INFORMATION  
-----

SARA SECTION 302:

None Found

SARA (311,312) HAZARD CLASS:

NONE

SARA (313) CHEMICALS:

NONE

CPSC CLASSIFICATION: NONE

WHMIS HAZARD CLASS:

D2A VERY TOXIC MATERIALS

WHMIS TRADE SECRET:

None

EXPORT:

SCHDLE B/HTSUS: 3214.10 Mastic Based on Rubber

ECCN: EAR99

HAZARD RATING SYSTEMS

HMIS FLAMMABILITY 0 , REACTIVITY 0 , HEALTH 0

NFPA FLAMMABILITY 0 , REACTIVITY 0 , HEALTH 0

CALIFORNIA PROPOSITION 65:

THIS PRODUCT CONTAINS CALIFORNIA PROPOSITION 65 CHEMICALS

WHICH ARE LISTED BELOW:

BENZENE (71-43-2)

TOLUENE (108-88-3)

1 SH

16. OTHER INFORMATION

This product or its components are on the European inventory of  
existing commercial chemicals (EINECS).....

.....  
These data are offered in good faith as typical values and not as product specifications. No warranty, either expressed or implied, is made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.  
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C = ceiling limit                    NEGL = negligible  
EST= estimated                    NF = none found  
NA = not applicable                UNKN = unknown  
NE = none established              REC = recommended  
ND = none determined              V = recomm. By vendor  
By-product = reaction by-        SKN = skin  
product, TSCA inventory        TS = trade secret  
status not required under        R = recommended  
40 CFR part 720.30(h-2)        MST = mist  
STEL = short term exposure      NT = not tested  
limit

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California Proposition 65:

WARNING! This product contains a chemical known to the State of California to cause cancer, birth defects, or other reproductive harm.

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FORMAT: USA

MATERIAL SAFETY DATA SHEET

PRODUCT: PENSIL200B

CROSSLINKING AND FOAMING AGENT

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION  
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MANUFACTURED BY:

SUPPLIED BY:

GE SILICONES

GE SILICONES

260 HUDSON RIVER ROAD

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WATERFORD, NY 12188

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EMERGENCY PHONE (24 HRS)

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(518) 237-3330

(518) 237-3330

REVISED: 05/01/02

PREPARER: CE HANNIGAN

CHEMICAL FAMILY/USE: SILICONE RUBBER SEALANT

FORMULA: MIXTURE

-----  
2. COMPOSITION/INFORMATION ON INGREDIENTS  
-----

PRODUCT COMPOSITION/ CAS REG NO.	APPROX. WGT. %	ACGIH TLV TWA	OSHA PEL STEL	ACGIH TLV TWA	OSHA PEL STEL	UNITS
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HAZARDOUS

BENZENE

71-43-2	50PPB	0.5	2.5	1	5	PPM
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TOLUENE

108-88-3	<2PPM	50 (SKIN)		100	150	PPM
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2. NON-HAZARDOUS

QUARTZ

14808-60-7	10-30	0.1	NE	0.1	NE	MG/M3
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METHYL HYDROGEN POLYSILOXANE

63148-57-2            10-30   NA      NE      NA      NE      NA

VINYLPOLYDIMETHYLSILOXANE

68083-19-2           30-60   NA      NE      NA      NE      NA

VINYL CONTAINING RESIN

68584-83-8           10-30   NF      NE      NF      NE      NA

See Section 15 for description of any WHMIS Trade Secret(s).

-----  
3.    HAZARDS IDENTIFICATION  
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EMERGENCY OVERVIEW:

CAUTION!

Product generates flammable gas on contact with acids, bases  
or oxidizing materials.

May cause irritation of skin and eyes.

May generate formaldehyde at temperatures greater than 150 C  
(300 F). See Section 3 of MSDS for details.

Mild odor

Liquids of various colors.

POTENTIAL HEALTH EFFECTS:

INGESTION:

None known

SKIN CONTACT:

May cause mild skin irritation.

INHALATION:

None Known.

EYE CONTACT:

May cause mild eye irritation.

MEDICAL CONDITIONS AGGRAVATED:

None known.

SUBCHRONIC (TARGET ORGAN) EFFECTS:

None known

CHRONIC EFFECTS/CARCINOGENICITY:

This product or one of its ingredients present 0.1% or more is NOT listed as a carcinogen or suspected carcinogen by NTP, IARC, or OSHA.

PRODUCTS/INGREDIENTS

This space reserved for special use.

PRINCIPLE ROUTES OF EXPOSURE:

Eyes.

OTHER:

This product contains methylpolysiloxanes which can generate formaldehyde at approximately 300 degrees Fahrenheit (150'C) and above, in atmospheres which contain oxygen. Formaldehyde is a skin and respiratory sensitizer, eye and throat irritant, acute toxicant, and potential cancer hazard. An MSDS for formaldehyde is available from GE Silicones.

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4. FIRST AID MEASURES  
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INGESTION:

Rinse mouth with water several times.

SKIN:

Wash with soap and water.

INHALATION:

None known.

EYES:

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

NOTE TO PHYSICIAN:

None known.

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5. FIRE FIGHTING MEASURES  
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FLASH POINT: 177 (C) 350 (F)  
METHOD : PMCC  
IGNITION TEMP : UNK (C) UNK (F)  
FLAMMABLE LIMITS IN AIR - LOWER (%): NA  
FLAMMABLE LIMITS IN AIR - UPPER (%): NA  
SENSITIVITY TO MECHANICAL IMPACT (Y/N): NO  
SENSITIVITY TO STATIC DISCHARGE:  
Sensitivity to static discharge is not expected.  
EXTINGUISHING MEDIA:  
All standard firefighting media  
SPECIAL FIREFIGHTING PROCEDURES:  
None known.

-----  
6. ACCIDENTAL RELEASE MEASURES  
-----

ACTION TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:  
Wash walking surfaces with detergent and water to reduce slipping hazard.  
Wear proper protective equipment as specified in the protective equipment section.  
Wipe, scrape, or soak up in an inert material and put in a container intended for flammable materials for disposal.

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7. HANDLING AND STORAGE  
-----

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Avoid contact with skin and eyes.

Do not reuse this container.

Store away from heat, sources of ignition, and incompatibles.

Small amounts of hydrogen may be evolved during shipping and storage. Containers must be periodically vented to prevent swelling and eventual rupturing. Take normal precautionary measures when venting hydrogen.

Keep container closed when not in use to prevent contact with acidic, basic, or oxidizing materials, and metallic catalysts like tin soaps and noble metals (Pt, Rh, etc.).

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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ENGINEERING CONTROLS:

Eyewash stations.

RESPIRATORY PROTECTION:

None known.

PROTECTIVE GLOVES:

Cloth gloves.

EYE AND FACE PROTECTION:

Safety glasses.

OTHER PROTECTIVE EQUIPMENT:

None known.

VENTILATION:

Ventilation and other forms of engineering controls are preferred for controlling exposures. Respiratory protection may be needed for non-routine or emergency situations.

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9. PHYSICAL AND CHEMICAL PROPERTIES

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PRODUCT INFORMATION:

BOILING POINT : >260 (C) >500 (F)  
VAPOR PRESSURE(20 C)(MM HG): NA  
VAPOR DENSITY (AIR=1) : NA  
FREEZING POINT : NA (C) NA (F)  
MELTING POINT : NA (C) NA (F)  
PHYSICAL STATE : LIQUID  
ODOR : SLIGHT  
COLOR : OFF-WHITE  
ODOR THRESHOLD (PPM) : UNK  
% VOLATILE BY VOLUME : <1  
EVAP. RATE(BUTYL ACETATE=1): <1  
SPECIFIC GRAVITY (WATER=1) : 1.20  
DENSITY (KG/M3) : UNK  
ACID/ALKALINITY (MEQ/G) : UNK  
PH : NA  
VOC EXCL.H2O & EXEMPTS(G/L): NT  
SOLUBILITY IN WATER (20 C) : NEG  
SOLUBILITY IN ORGANIC SOLVENT (STATE SOLVENT): TOLUENE

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10. STABILITY AND REACTIVITY

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STABILITY: STABLE

1 HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

HAZARDOUS THERMAL DECOMPOSITION/COMBUSTION PRODUCTS:

Carbon monoxide.

Carbon dioxide.

Silicon dioxide.



Flammable hydrogen gas.

Formaldehyde.

INCOMPATIBILITY (MATERIALS TO AVOID):

Avoid contact with acidic, basic, or oxidizing agents, and metallic catalysts like tin soaps and noble metals (Pt, Rh, etc.).

CONDITIONS TO AVOID:

Product generates flammable gas on contact with acids, bases or oxidizing materials.

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11. TOXICOLOGICAL INFORMATION  
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PRODUCT INFORMATION:

ACUTE ORAL LD50 (MG/KG): NF

ACUTE DERMAL LD50 (MG/KG): NF

ACUTE INHALATION LC50 (MG/L): NF

OTHER:

None.

AMES TEST: UNKNOWN

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12. ECOLOGICAL INFORMATION  
-----

ECOTOXICOLOGICAL INFORMATION: No data at this time

CHEMICAL FATE INFORMATION: No data at this time

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13. DISPOSAL CONSIDERATIONS  
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DISPOSAL METHOD:

Disposal should be made in accordance with federal, state and local regulations.

Incineration recommended in approved incinerator according to federal, state, and local regulations.

-----  
14. TRANSPORT INFORMATION  
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1

DOT SHIPPING NAME: NONE

DOT HAZARD CLASS: NOT DOT REGULATED

DOT LABEL(S): NONE

UN/NA NUMBER: NONE

PLACARDS: NONE

IATA:

NOT REGULATED BY IATA

IMO IMDG-code: NOT REGULATED FOR OCEAN TRANSPORTATION

EMS No: NA

EUROPEAN CLASS:

RID (OCTI): NONE

ADR (ECE) : NONE

RAR (IATA): NONE

-----  
15. REGULATORY INFORMATION  
-----

SARA SECTION 302:

None Found

SARA (311,312) HAZARD CLASS:

NONE

SARA (313) CHEMICALS:

NONE

CPSC CLASSIFICATION: NONE

WHMIS HAZARD CLASS:

D2A VERY TOXIC MATERIALS

WHMIS TRADE SECRET:

None

EXPORT:

SCHDLE B/HTSUS: 3214.10 Mastic Based on Rubber

ECCN: EAR99

HAZARD RATING SYSTEMS

HMIS FLAMMABILITY 0 , REACTIVITY 1 , HEALTH 0

NFPA HEALTH = 0, FLAMMABILITY = 0, REACTIVITY = 1

CALIFORNIA PROPOSITION 65:

THIS PRODUCT CONTAINS CALIFORNIA PROPOSITION 65 CHEMICALS

WHICH ARE LISTED BELOW:

BENZENE (71-43-2)

TOLUENE (108-88-3)

-----  
16. OTHER INFORMATION  
-----

This product or its components are on the European inventory of existing commercial chemicals (EINECS).....

.....

These data are offered in good faith as typical values and not as product specifications. No warranty, either expressed or implied, is made. The recommended industrial hygiene and safe

handling procedures are believed to be generally applicable.  
However, each user should review these recommendations in the  
specific context of the intended use and determine whether they  
are appropriate.

.....  
C = ceiling limit                    NEGL = negligible  
EST= estimated                      NF = none found  
NA = not applicable                UNKN = unknown  
NE = none established              REC = recommended  
ND = none determined              V = recomm. By vendor  
By-product = reaction by-        SKN = skin  
product, TSCA inventory        TS = trade secret  
status not required under        R = recommended  
40 CFR part 720.30(h-2)        MST = mist  
STEL = short term exposure      NT = not tested  
limit

.....  
California Proposition 65:  
WARNING! This product contains a chemical known to the State  
of California to cause cancer, birth defects, or other  
reproductive harm.  
If shipment by air is required, be certain that container has  
not been contaminated by acidic, basic, or oxidizing materials  
and container is undamaged.

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FORMAT: USA

MATERIAL SAFETY DATA SHEET

PRODUCT: PENSIL200A

SILICONE FOAM BASE

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURED BY:

GE SILICONES

260 HUDSON RIVER ROAD

WATERFORD, NY 12188

SUPPLIED BY:

GE SILICONES

260 HUDSON RIVER ROAD

WATERFORD, NY 12188

EMERGENCY PHONE (24 HRS)

(518) 237-3330

EMERGENCY PHONE (24 HRS)

(518) 237-3330

REVISED: 04/01/01

PREPARER: CE HANNIGAN

CHEMICAL FAMILY/USE: SILICONE RUBBER SEALANT

FORMULA: MIXTURE

2. COMPOSITION/INFORMATION ON INGREDIENTS

PRODUCT COMPOSITION/ CAS REG NO.	APPROX. WGT. %	ACGIH TLV TWA	OSHA PEL STEL	ACGIH TLV TWA	OSHA PEL STEL	UNITS
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HAZARDOUS

BENZENE

71-43-2	32PPB	0.5	2.5	1	5	PPM
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TOLUENE

108-88-3	<1	50 (SKIN)		100	150	PPM
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2. NON-HAZARDOUS

VINYLPOLYDIMETHYLSILOXANE

68083-19-2	60-80	NA	NE	NA	NE	NA
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CARBON BLACK						
1333-86-4	1-5	3.5	NE	3.5	NE	MG/M3
WATER						
7732-18-5	1-5	NA	NE	NA	NE	NA
QUARTZ						
14808-60-7	10-30	0.1	NE	0.1	NE	MG/M3
VINYL CONTAINING RESIN						
68584-83-8	5-10	NF	NE	NF	NE	NA

See Section 15 for description of any WHMIS Trade Secret(s).

-----

3. HAZARDS IDENTIFICATION

-----

1

EMERGENCY OVERVIEW:

CAUTION!

May irritate the eyes.

ATTENTION: Not for injection into humans.

May generate formaldehyde at temperatures greater than 150 C (300 F). See Section 3 of MSDS for details.

Odorless

Clear liquid

POTENTIAL HEALTH EFFECTS:

INGESTION:

None known

SKIN CONTACT:

None known.

INHALATION:

None Known.

EYE CONTACT:

May cause mild eye irritation.

MEDICAL CONDITIONS AGGRAVATED:

None known.

SUBCHRONIC (TARGET ORGAN) EFFECTS:

None known

CHRONIC EFFECTS/CARCINOGENICITY:

This product or one of its ingredients present 0.1% or more is NOT listed as a carcinogen or suspected carcinogen by NTP, IARC, or OSHA.

PRODUCTS/INGREDIENTS

This space reserved for special use.

PRINCIPLE ROUTES OF EXPOSURE:

Eyes.

OTHER:

Attention: Not for injection into humans.

This product contains methylpolysiloxanes which can generate formaldehyde at approximately 300 degrees Fahrenheit (150'C) and above, in atmospheres which contain oxygen. Formaldehyde is a skin and respiratory sensitizer, eye and throat irritant, acute toxicant, and potential cancer hazard. An MSDS for formaldehyde is available from GE Silicones.

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4. FIRST AID MEASURES  
-----

INGESTION:

Do not induce vomiting. If victim is conscious, give 1-3 glasses of water to drink. Never give anything by mouth to an unconscious person. Get medical attention if irritation persists.

1 SKIN:

Wash with soap and water. Get medical attention if irritation or symptoms from Section 3 develop.

INHALATION:

If inhaled, remove to fresh air. If not breathing give artificial respiration using a barrier device. If breathing is

difficult give oxygen. Get medical attention.

EYES:

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

NOTE TO PHYSICIAN:

None known.

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5. FIRE FIGHTING MEASURES  
-----

FLASH POINT: 177 (C) 350 (F)  
METHOD : TCC  
IGNITION TEMP : UNK (C) UNK (F)  
FLAMMABLE LIMITS IN AIR - LOWER (%): NA  
FLAMMABLE LIMITS IN AIR - UPPER (%): NA  
SENSITIVITY TO MECHANICAL IMPACT (Y/N): NO

SENSITIVITY TO STATIC DISCHARGE:

Sensitivity to static discharge is not expected.

EXTINGUISHING MEDIA:

All standard firefighting media

SPECIAL FIREFIGHTING PROCEDURES:

Firefighters must wear NIOSH/MSHA approved positive pressure self-contained breathing apparatus with full face mask and full protective clothing.

-----  
6. ACCIDENTAL RELEASE MEASURES  
-----

ACTION TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Wipe, scrape or soak up in an inert material and put in a



container for disposal.

Wash walking surfaces with detergent and water to reduce slipping hazard.

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## 7. HANDLING AND STORAGE

---

### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Keep container closed when not in use.

Avoid contact with skin and eyes.

Store away from heat, sources of ignition, and incompatibles.

Keep away from children.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

---

### ENGINEERING CONTROLS:

Showers and eyewash stations. See "Ventilation" below.

### RESPIRATORY PROTECTION:

If exposure limits are exceeded or respiratory irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Supplied air respirators may be required for non-routine or emergency situations. Respiratory protection must be provided in accordance with OSHA regulations (see 29 CFR 1910.134).

### PROTECTIVE GLOVES:

Cloth gloves.

### EYE AND FACE PROTECTION:

Safety glasses.

### OTHER PROTECTIVE EQUIPMENT:

Wear eye protection and protective clothing.

VENTILATION:

Ventilation and other forms of engineering controls are preferred for controlling exposures. Respiratory protection may be needed for non-routine or emergency situations.

-----  
9. PHYSICAL AND CHEMICAL PROPERTIES  
-----

PRODUCT INFORMATION:

BOILING POINT : >260 (C) >500 (F)  
VAPOR PRESSURE(20 C)(MM HG): NEG  
VAPOR DENSITY (AIR=1) : NEG  
FREEZING POINT : NA (C) NA (F)  
MELTING POINT : NA (C) NA (F)  
PHYSICAL STATE : LIQUID  
ODOR : SLIGHT  
COLOR : BLACK  
ODOR THRESHOLD (PPM) : UNK  
% VOLATILE BY VOLUME : ~3  
EVAP. RATE(BUTYL ACETATE=1): <1  
SPECIFIC GRAVITY (WATER=1) : 1.21  
DENSITY (KG/M3) : UNK  
ACID/ALKALINITY (MEQ/G) : UNK  
PH : NA  
VOC EXCL.H2O & EXEMPTS(G/L): NT  
1 SOLUBILITY IN WATER (20 C) : MODERATE  
SOLUBILITY IN ORGANIC SOLVENT (STATE SOLVENT): PARTIAL IN TOLUENE

-----  
10. STABILITY AND REACTIVITY  
-----

STABILITY: STABLE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

HAZARDOUS THERMAL DECOMPOSITION/COMBUSTION PRODUCTS:

Carbon monoxide.

Carbon dioxide.

Silicon dioxide.

Toxic metal fumes.

Oxides of nitrogen.

Formaldehyde.

INCOMPATIBILITY (MATERIALS TO AVOID):

None known.

CONDITIONS TO AVOID:

None known.

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11. TOXICOLOGICAL INFORMATION

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PRODUCT INFORMATION:

ACUTE ORAL LD50 (MG/KG): NF

ACUTE DERMAL LD50 (MG/KG): NF

ACUTE INHALATION LC50 (MG/L): NF

OTHER:

None.

AMES TEST: UNKNOWN

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12. ECOLOGICAL INFORMATION

---

ECOTOXICOLOGICAL INFORMATION: No data at this time

CHEMICAL FATE INFORMATION: No data at this time

-----  
13. DISPOSAL CONSIDERATIONS  
-----

DISPOSAL METHOD:

Disposal should be made in accordance with federal, state and local regulations.

Incineration recommended in approved incinerator according to federal, state, and local regulations.

-----  
14. TRANSPORT INFORMATION  
-----

DOT SHIPPING NAME: NONE

DOT HAZARD CLASS: NOT REGULATED

DOT LABEL(S): NONE

UN/NA NUMBER: NONE

PLACARDS: NONE

IATA:

NOT REGULATED BY IATA

IMO IMDG-code: NOT REGULATED FOR OCEAN TRANSPORTATION

EMS No: NA

EUROPEAN CLASS:

RID (OCTI): NONE

ADR (ECE) : NONE

RAR (IATA): NONE

-----  
15. REGULATORY INFORMATION  
-----

SARA SECTION 302:

None Found

SARA (311,312) HAZARD CLASS:

NONE

SARA (313) CHEMICALS:

NONE

CPSC CLASSIFICATION: NONE

WHMIS HAZARD CLASS:

D2A VERY TOXIC MATERIALS

WHMIS TRADE SECRET:

None

EXPORT:

SCHDLE B/HTSUS: 3214.10 Mastic Based on Rubber

ECCN: EAR99

HAZARD RATING SYSTEMS

HMIS FLAMMABILITY 0 , REACTIVITY 0 , HEALTH 0

NFPA FLAMMABILITY 0 , REACTIVITY 0 , HEALTH 0

CALIFORNIA PROPOSITION 65:

THIS PRODUCT CONTAINS CALIFORNIA PROPOSITION 65 CHEMICALS

WHICH ARE LISTED BELOW:

BENZENE (71-43-2)

TOLUENE (108-88-3)

1 SH

16. OTHER INFORMATION

This product or its components are on the European inventory of  
existing commercial chemicals (EINECS).....

.....  
These data are offered in good faith as typical values and not as product specifications. No warranty, either expressed or implied, is made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.  
.....

C = ceiling limit                    NEGL = negligible  
EST= estimated                    NF = none found  
NA = not applicable                UNKN = unknown  
NE = none established              REC = recommended  
ND = none determined              V = recomm. By vendor  
By-product = reaction by-        SKN = skin  
product, TSCA inventory        TS = trade secret  
status not required under        R = recommended  
40 CFR part 720.30(h-2)        MST = mist  
STEL = short term exposure      NT = not tested  
limit

.....  
California Proposition 65:  
WARNING! This product contains a chemical known to the State of California to cause cancer, birth defects, or other reproductive harm.

\*



FORMAT: USA

MATERIAL SAFETY DATA SHEET

PRODUCT: PENSIL200B

CROSSLINKING AND FOAMING AGENT

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURED BY:

GE SILICONES

260 HUDSON RIVER ROAD

WATERFORD, NY 12188

SUPPLIED BY:

GE SILICONES

260 HUDSON RIVER ROAD

WATERFORD, NY 12188

EMERGENCY PHONE (24 HRS)

(518) 237-3330

EMERGENCY PHONE (24 HRS)

(518) 237-3330

REVISED: 05/01/02

PREPARER: CE HANNIGAN

CHEMICAL FAMILY/USE: SILICONE RUBBER SEALANT

FORMULA: MIXTURE

2. COMPOSITION/INFORMATION ON INGREDIENTS

PRODUCT COMPOSITION/ CAS REG NO.	APPROX. WGT. %	ACGIH TLV TWA	OSHA PEL STEL	ACGIH TLV TWA	OSHA PEL STEL	UNITS
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HAZARDOUS

BENZENE

71-43-2	50PPB	0.5	2.5	1	5	PPM
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TOLUENE

108-88-3	<2PPM	50 (SKIN)		100	150	PPM
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2. NON-HAZARDOUS

QUARTZ

14808-60-7	10-30	0.1	NE	0.1	NE	MG/M3
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METHYL HYDROGEN POLYSILOXANE

63148-57-2            10-30   NA      NE      NA      NE      NA

VINYLPOLYDIMETHYLSILOXANE

68083-19-2           30-60   NA      NE      NA      NE      NA

VINYL CONTAINING RESIN

68584-83-8           10-30   NF      NE      NF      NE      NA

See Section 15 for description of any WHMIS Trade Secret(s).

-----  
3.    HAZARDS IDENTIFICATION  
-----

EMERGENCY OVERVIEW:

CAUTION!

Product generates flammable gas on contact with acids, bases  
or oxidizing materials.

May cause irritation of skin and eyes.

May generate formaldehyde at temperatures greater than 150 C  
(300 F). See Section 3 of MSDS for details.

Mild odor

Liquids of various colors.

POTENTIAL HEALTH EFFECTS:

INGESTION:

None known

SKIN CONTACT:

May cause mild skin irritation.

INHALATION:

None Known.

EYE CONTACT:

May cause mild eye irritation.

MEDICAL CONDITIONS AGGRAVATED:

None known.

SUBCHRONIC (TARGET ORGAN) EFFECTS:

None known



CHRONIC EFFECTS/CARCINOGENICITY:

This product or one of its ingredients present 0.1% or more is NOT listed as a carcinogen or suspected carcinogen by NTP, IARC, or OSHA.

PRODUCTS/INGREDIENTS

This space reserved for special use.

PRINCIPLE ROUTES OF EXPOSURE:

Eyes.

OTHER:

This product contains methylpolysiloxanes which can generate formaldehyde at approximately 300 degrees Fahrenheit (150'C) and above, in atmospheres which contain oxygen. Formaldehyde is a skin and respiratory sensitizer, eye and throat irritant, acute toxicant, and potential cancer hazard. An MSDS for formaldehyde is available from GE Silicones.

-----  
4. FIRST AID MEASURES  
-----

INGESTION:

Rinse mouth with water several times.

SKIN:

Wash with soap and water.

INHALATION:

None known.

EYES:

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

NOTE TO PHYSICIAN:

None known.

-----  
5. FIRE FIGHTING MEASURES  
-----

FLASH POINT: 177 (C) 350 (F)  
METHOD : PMCC  
IGNITION TEMP : UNK (C) UNK (F)  
FLAMMABLE LIMITS IN AIR - LOWER (%): NA  
FLAMMABLE LIMITS IN AIR - UPPER (%): NA  
SENSITIVITY TO MECHANICAL IMPACT (Y/N): NO  
SENSITIVITY TO STATIC DISCHARGE:  
Sensitivity to static discharge is not expected.  
EXTINGUISHING MEDIA:  
All standard firefighting media  
SPECIAL FIREFIGHTING PROCEDURES:  
None known.

-----  
6. ACCIDENTAL RELEASE MEASURES  
-----

ACTION TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:  
Wash walking surfaces with detergent and water to reduce slipping hazard.  
Wear proper protective equipment as specified in the protective equipment section.  
Wipe, scrape, or soak up in an inert material and put in a container intended for flammable materials for disposal.

-----  
7. HANDLING AND STORAGE  
-----

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Avoid contact with skin and eyes.

Do not reuse this container.

Store away from heat, sources of ignition, and incompatibles.

Small amounts of hydrogen may be evolved during shipping and storage. Containers must be periodically vented to prevent swelling and eventual rupturing. Take normal precautionary measures when venting hydrogen.

Keep container closed when not in use to prevent contact with acidic, basic, or oxidizing materials, and metallic catalysts like tin soaps and noble metals (Pt, Rh, etc.).

1

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION  
-----

ENGINEERING CONTROLS:

Eyewash stations.

RESPIRATORY PROTECTION:

None known.

PROTECTIVE GLOVES:

Cloth gloves.

EYE AND FACE PROTECTION:

Safety glasses.

OTHER PROTECTIVE EQUIPMENT:

None known.

VENTILATION:

Ventilation and other forms of engineering controls are preferred for controlling exposures. Respiratory protection may be needed for non-routine or emergency situations.

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9. PHYSICAL AND CHEMICAL PROPERTIES

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PRODUCT INFORMATION:

BOILING POINT : >260 (C) >500 (F)  
VAPOR PRESSURE(20 C)(MM HG): NA  
VAPOR DENSITY (AIR=1) : NA  
FREEZING POINT : NA (C) NA (F)  
MELTING POINT : NA (C) NA (F)  
PHYSICAL STATE : LIQUID  
ODOR : SLIGHT  
COLOR : OFF-WHITE  
ODOR THRESHOLD (PPM) : UNK  
% VOLATILE BY VOLUME : <1  
EVAP. RATE(BUTYL ACETATE=1): <1  
SPECIFIC GRAVITY (WATER=1) : 1.20  
DENSITY (KG/M3) : UNK  
ACID/ALKALINITY (MEQ/G) : UNK  
PH : NA  
VOC EXCL.H2O & EXEMPTS(G/L): NT  
SOLUBILITY IN WATER (20 C) : NEG  
SOLUBILITY IN ORGANIC SOLVENT (STATE SOLVENT): TOLUENE

-----

10. STABILITY AND REACTIVITY

-----

STABILITY: STABLE

1 HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

HAZARDOUS THERMAL DECOMPOSITION/COMBUSTION PRODUCTS:

Carbon monoxide.

Carbon dioxide.

Silicon dioxide.

Flammable hydrogen gas.

Formaldehyde.

INCOMPATIBILITY (MATERIALS TO AVOID):

Avoid contact with acidic, basic, or oxidizing agents, and metallic catalysts like tin soaps and noble metals (Pt, Rh, etc.).

CONDITIONS TO AVOID:

Product generates flammable gas on contact with acids, bases or oxidizing materials.

-----  
11. TOXICOLOGICAL INFORMATION  
-----

PRODUCT INFORMATION:

ACUTE ORAL LD50 (MG/KG): NF

ACUTE DERMAL LD50 (MG/KG): NF

ACUTE INHALATION LC50 (MG/L): NF

OTHER:

None.

AMES TEST: UNKNOWN

-----  
12. ECOLOGICAL INFORMATION  
-----

ECOTOXICOLOGICAL INFORMATION: No data at this time

CHEMICAL FATE INFORMATION: No data at this time

-----  
13. DISPOSAL CONSIDERATIONS  
-----

DISPOSAL METHOD:

Disposal should be made in accordance with federal, state and local regulations.

Incineration recommended in approved incinerator according to federal, state, and local regulations.

-----  
14. TRANSPORT INFORMATION  
-----

1

DOT SHIPPING NAME: NONE

DOT HAZARD CLASS: NOT DOT REGULATED

DOT LABEL(S): NONE

UN/NA NUMBER: NONE

PLACARDS: NONE

IATA:

NOT REGULATED BY IATA

IMO IMDG-code: NOT REGULATED FOR OCEAN TRANSPORTATION

EMS No: NA

EUROPEAN CLASS:

RID (OCTI): NONE

ADR (ECE) : NONE

RAR (IATA): NONE

-----  
15. REGULATORY INFORMATION  
-----

SARA SECTION 302:

None Found

SARA (311,312) HAZARD CLASS:

NONE

SARA (313) CHEMICALS:

NONE

CPSC CLASSIFICATION: NONE

WHMIS HAZARD CLASS:

D2A VERY TOXIC MATERIALS

WHMIS TRADE SECRET:

None

EXPORT:

SCHDLE B/HTSUS: 3214.10 Mastic Based on Rubber

ECCN: EAR99

HAZARD RATING SYSTEMS

HMIS FLAMMABILITY 0 , REACTIVITY 1 , HEALTH 0

NFPA HEALTH = 0, FLAMMABILITY = 0, REACTIVITY = 1

CALIFORNIA PROPOSITION 65:

THIS PRODUCT CONTAINS CALIFORNIA PROPOSITION 65 CHEMICALS

WHICH ARE LISTED BELOW:

BENZENE (71-43-2)

TOLUENE (108-88-3)

-----  
16. OTHER INFORMATION  
-----

This product or its components are on the European inventory of existing commercial chemicals (EINECS).....

.....

These data are offered in good faith as typical values and not as product specifications. No warranty, either expressed or implied, is made. The recommended industrial hygiene and safe

handling procedures are believed to be generally applicable.  
However, each user should review these recommendations in the  
specific context of the intended use and determine whether they  
are appropriate.

.....  
C = ceiling limit                    NEGL = negligible  
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product, TSCA inventory        TS = trade secret  
status not required under        R = recommended  
40 CFR part 720.30(h-2)        MST = mist  
STEL = short term exposure        NT = not tested  
limit

.....  
California Proposition 65:  
WARNING! This product contains a chemical known to the State  
of California to cause cancer, birth defects, or other  
reproductive harm.  
If shipment by air is required, be certain that container has  
not been contaminated by acidic, basic, or oxidizing materials  
and container is undamaged.

.....  
\*