

**SB32 55G-Drum(420.0LBS-190.5KG)
Cyclopentasiloxane****1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

Manufactured By: GES Waterford Plant
260 Hudson River Rd
Waterford NY 12188

Revised: 08/30/2006

Preparer: PRODUCT STEWARDSHIP COMPLIANCE AND STANDARDS
CHEMTREC 1-800-424-9300

Chemical Family/Use: Silicone siloxane
Formula: Cyclic siloxanes.

HMIS

Flammability: 2 Reactivity: 0 Health: 1 Prot. Equipm.:

NFPA

Flammability: 2 Reactivity: 0 Health: 1 Special Haz.:

2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>PRODUCT COMPOSITION</u>	<u>CAS REG NO.</u>	<u>WGT. %</u>
<u>A. HAZARDOUS</u>		
Decamethylcyclopentasiloxane	541-02-6	> 90 %
<u>B. NON-HAZARDOUS</u>		
Mixed Cyclosiloxanes	69430-24-6	1 - 5 %

3. HAZARDS IDENTIFICATION**EMERGENCY OVERVIEW**

CAUTION! Combustible liquid and vapor.

Form: liquid

Color: colourless

Odor: mild

POTENTIAL HEALTH EFFECTS**INGESTION**

Not an anticipated route of exposure.

SKIN

No adverse effects are expected under normal conditions of use.

INHALATION

No adverse effects are expected under normal conditions of use.

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EYES

No adverse effects are expected under normal conditions of use.

MEDICAL CONDITIONS AGGRAVATED

Liver disorders.

SUBCHRONIC (TARGET ORGAN)

Liver

CHRONIC EFFECTS / CARCINOGENICITY

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

ROUTES OF EXPOSURE

None known.

OTHER

Additional information on the toxicological effects of this material or it's ingredients can be found in Section 11 - Toxicological Information.

4. FIRST AID MEASURES

INGESTION

Do NOT induce vomiting. If victim is conscious, give 2 glasses of water. Never give anything by mouth to an unconscious person. Obtain medical attention.

SKIN

Wash off with soap and water. Get medical attention if symptoms occur.

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

Treatment is symptomatic and supportive.

5. FIRE-FIGHTING MEASURES

FLASH POINT:

76.60 °C; 170.60 °F

METHOD:

closed cup

IGNITION TEMPERATURE:

392 °C; 737.60 °F

FLAMMABLE LIMITS IN AIR - LOWER (%):

Unknown



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FLAMMABLE LIMITS IN AIR - UPPER (%): Unknown

SENSITIVITY TO MECHANICAL IMPACT: No

SENSITIVITY TO STATIC DISCHARGE

Sensitivity to static discharge is expected; material has a flash point below 200 F.

EXTINGUISHING MEDIA

All standard extinguishing agents are suitable.

SPECIAL FIRE FIGHTING PROCEDURES

Combustible, 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

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

STORAGE

Store away from heat, sources of ignition, and incompatibles. Keep container tightly closed.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Use ground strap and appropriate precautions for dispensing flammable liquids. Use only spark-proof and explosion-proof tools and equipment. Avoid contact with skin and eyes. Keep away from children. May generate formaldehyde at temperatures greater than 150 C (300 F). See Section 10 of MSDS for details. Attention: Not for injection into humans.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS

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

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).

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Impermeable or chemical resistant gloves.

EYE AND FACE PROTECTION

Safety glasses with side-shields

OTHER PROTECTIVE EQUIPMENT

Wear suitable protective clothing and eye/face protection.

Exposure Guidelines

<u>Component</u>	<u>CAS RN</u>	<u>Source</u>	<u>Value</u>
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Absence of values indicates none found

PEL - OSHA Permissible Exposure Limit; TLV - ACGIH Threshold Limit Value; TWA - Time Weighted Average

OSHA revoked the Final Rule Limits of January 19, 1989 in response to the 11th Circuit Court of Appeals decision (AFL-CIO v. OSHA) effective June 30, 1993. See 29 CFR 1910.1000 (58 FR 35338).

9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT - C & F:	210.00 °C; 410 °F
VAPOR PRESSURE (20 C) (MM HG):	3 MM HG
VAPOR DENSITY (AIR=1):	no data available
FREEZING POINT:	< -40 °C; 40- °F
MELTING POINT:	< -40 °C; 40- °F
PHYSICAL STATE:	liquid
ODOR:	mild
COLOR:	colourless
EVAPORATION RATE (BUTYL ACETATE=1):	< 1
SPECIFIC GRAVITY (WATER=1):	0.95
DENSITY:	958.60 g/cm3
ACID / ALKALINITY (MEQ/G):	<3 PPM
pH:	no data available
VOLATILE ORGANIC CONTENT (VOL):	100.00 %(m)
SOLUBILITY IN WATER (20 C):	insoluble
SOLUBILITY IN ORGANIC SOLVENT (STATE SOLVENT):	Soluble in toluene
VOC EXCL. H2O & EXEMPTS (G/L):	0.00

10. STABILITY AND REACTIVITY**STABILITY**
Stable

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HAZARDOUS POLYMERIZATION

Will not occur

HAZARDOUS THERMAL DECOMPOSITION / COMBUSTION PRODUCTS

Carbon dioxide (CO₂); formaldehyde; Carbon monoxide; Silicon dioxide.; This product contains methylpolysiloxanes which can generate formaldehyde at approximately 300 F (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 Advanced Materials - Silicones.

INCOMPATIBILITY (MATERIALS TO AVOID)

None known.

CONDITIONS TO AVOID

Keep away from heat and sources of ignition.

11. TOXICOLOGICAL INFORMATION**ACUTE ORAL**

LD50; Species: rat; > 5,000 mg/kg;

ACUTE DERMAL

LD50; Species: rabbit; > 1,000 mg/kg;

ACUTE INHALATION

LC50; Species: rat; 8.67 mg/l;

OTHER

Decamethylcyclopentasiloxane Rodents repeatedly exposed to decamethylcyclopentasiloxane (D5) via inhalation or ingestion developed increased liver weights relative to unexposed control animals. When the exposure was stopped, livers returned to normal. Microscopic examination of the liver cells did not show any evidence of pathology. Liver enlargement was due to an increase in metabolizing enzymes, and a temporary increase in the number and size of normal cells (hyperplasia and hypertrophy). These biochemical pathways are more sensitive in rodents than in humans. Inhalation exposures that are typical in industrial use (5-10 ppm) showed no toxic effects in rodents. A two-year combined chronic toxicity and carcinogenicity inhalation study was conducted with decamethylcyclopentasiloxane (D5) in Fisher-344 rats by whole body inhalation. A statistically significant increase in the trend for uterine endometrial tumors was observed in female rats exposed for 24 months at the highest dose level of 160 ppm. The same effects were not seen at the other dose levels of 10 and 40 ppm. No adverse effects were seen at male rats at any level. Whether or not this increase in incidence is truly related to the exposure to D5 is questionable and yet to be determined. Based on our present knowledge, it is unlikely that industrial, commercial, or consumer uses of products containing D5 would result in a significant risk to humans. The GE Recommended Exposure Guideline for D5 is 10 ppm.

SENSITIZATION

Test Type: Magnusson-Kligmann; Species: guinea pig; Result: negative

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SKIN IRRITATION

Species: rabbit; Result: No skin irritation

EYE IRRITATION

Species: rabbit ; Result: No eye irritation

MUTAGENICITY

Salmonella/Microsome-test: No indication of mutagenic effects.

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGY

This product is a small, lipophilic, low molecular weight volatile compound. Due to its high volatility, product has a short half-life in the aquatic compartment, and is unlikely to be found in the terrestrial compartment. As a low molecular weight lipophilic compound it has the potential to bioaccumulate.

CHEMICAL FATE

no data available

DISTRIBUTION

no data available

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD

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

14. TRANSPORT INFORMATION

DOT SHIPPING NAME:	Combustible liquid, n.o.s.(Decamethylcyclopentasiloxane)
DOT HAZARD CLASS:	CBL
DOT LABEL (S):	NON
UN/NA NUMBER:	NA 1993
PACKING GROUP:	III

15. REGULATORY INFORMATION

Inventories

Canada DSL Inventory	y (positive listing)
Japan Inventory of Existing & New Chemical Substances (ENCS)	y (positive listing)

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Korea Existing Chemicals Inventory (KECI)	y (positive listing)
China Inventory of Existing Chemical Substances	y (positive listing)
Australia Inventory of Chemical Substances (AICS)	y (positive listing)
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	y (positive listing)
EU list of existing chemical substances	y (positive listing)
Canada NDSL Inventory	n (Negative listing)
TSCA list	y (positive listing)

For inventories that are marked as quantity restricted or special cases, please contact GE.

US Regulatory Information

CERCLA

PRODUCT COMPOSITION

Chemical

CERCLA Reportable Quantity

CLEAN AIR ACT

CLEAN WATER ACT

SARA SECTION 302

SARA (311,312) HAZARD CLASS

Acute Health Hazard; Chronic Health Hazard; Fire Hazard

SARA (313) CHEMICALS

Canadian Regulatory Information

WHMIS HAZARD CLASS

D2A VERY TOXIC MATERIALS, Combustible Liquid

Other

SCHDLE B/HTSUS: 2931.00.90.10 Organo Silicon compounds

ECCN: EAR99

CALIFORNIA PROPOSITION 65

This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductiv e defects.



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16. OTHER INFORMATION

OTHER

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 = recommended by vendor SKN = skin TS = trade secret R = recommended MST = mist NT = not tested STEL = short term exposure limit ppm = parts per million ppb = parts per billion By-product= reaction by-product, TSCA inventory status not required under 40 CFR part 720.30(h-2).