

GE SILICONES -- SILICONE RUBBER SEALANT, RTV102

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MSDS Safety Information

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FSC: 8040

NIIN: 00-225-4548

MSDS Date: 02/05/1999

MSDS Num: CJPLF

Product ID: SILICONE RUBBER SEALANT, RTV102

MFN: 03

Responsible Party

Cage: 01139

Name: GE SILICONES

Address: 260 HUDSON RIVER ROAD

City: WATERFORD NY 12188

Info Phone Number: 518-237-3330

Emergency Phone Number: 518-237-3330

Preparer's Name: C.E. HANNIGAN

Review Ind: Y

Published: Y

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Contractor Summary

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Cage: 01139

Name: GENERAL ELECTRIC CO, SILICONE PRODUCTS BUSINESS DEPT

Address: 260 HUDSON RIVER RD

City: WATERFORD NY 12188

Phone: 518-237-3330/800-332-3390

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Item Description Information

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Item Manager: GSA

Item Name: ADHESIVE

Unit of Issue: KT

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Ingredients

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Name: PART A CONSISTS OF CAS #'S 4253-34-3 & 556-67-2 AND PART B CONSISTS
OF CAS #'S 70131-67-8, 68554-67-6, 68611-44-9 & 63148-62-9.

Cas: 4253-34-3

RTECS #: VV4500000

Name: METHYLTRIACETOXYSILANE. LD50:(ORAL,RAT) 2,060 MG/KG. (PART A)

% low Wt: 1.

% high Wt: 5.

OSHA PEL: 10 PPM (RDUST)

ACGIH TLV: 10 PPM (RDUST)

Cas: 556-67-2

RTECS #: GZ4397000

Name: OCTAMETHYLCYCLOTETRASILOXANE. LD50:(ORAL,RAT) >64,000 MG/KG. (PART A)

% low Wt: 1.

% high Wt: 5.

ACGIH TLV: 5 PPM

Cas: 70131-67-8

Name: SILOXANES AND SILICONES DI-ME, HYDROXY-TERMINATED 42% IN DIMETHYL
HYDROLYZATE; (POLYDIMETHYLSILOXANE SILANOL/STPD). LD50:(ORAL,RAT) >40,000
MG/KG. (PART B)

% low Wt: 60.

% high Wt: 80.

Cas: 68554-67-6

Name: SILANOL/STPD SILOXANE W/ME SILSESQUIOXANES. LD50:(ORAL,RAT) >40,000
MG/KG (EST). (PART B)

% low Wt: 5.

% high Wt: 10.

Cas: 68611-44-9

Name: TREATED FUMED SILICA. LD50:(ORAL,RAT) >10,000 MG/KG. (PART B)

% low Wt: 10.

% high Wt: 30.

OSHA PEL: 15 MG/M3

ACGIH TLV: 10 MG/M3

Cas: 63148-62-9

RTECS #: JT6484500

Name: DIMETHYLPOLYSILOXANES. LD50:(ORAL,RAT) 20,000 MG/KG.

% low Wt: 1.

% high Wt: 5.

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Health Hazards Data
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LD50 LC50 Mixture: SEE INGREDIENTS AND TOX INFO

Route Of Entry Inds - Inhalation: YES

Skin: YES

Ingestion: YES

Carcinogenicity Inds - NTP: NO

IARC: NO

OSHA: NO

Effects of Exposure: ACUTE: INGESTION: MAY BE HARMFUL IF SWALLOWED. SKIN

CONTACT: UNCURED PRODUCT CONTACT WILL IRRITATE LIPS, GUMS AND TONGUE.

UNCURED

PRODUCT CONTACT MAY IRRITATE SKIN. INHALATION: CAUSES IRRITATION OF THE

MOUTH, NOSE AND THROAT. APPLIES ONLY IN UNCURED STATE. EYE CONTACT:

UNCURED

PRODUCT CONTACT IRRITATES EYES. CHRONIC (TARGET ORGAN EFFECTS):

REPRODUCTIVE

DISORDERS. MAY CAUSE LIVER EFFECTS.

Explanation Of 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.

First Aid: INGESTION: RINSE MOUTH WITH WATER SEVERAL TIMES. SKIN: REMOVE

COMPLETELY WITH A DRY CLOTH OR PAPER TOWEL, BEFORE WASHING WITH

DETERGENT AND

WATER. GET MEDICAL ATTENTION IF IRRITATION PERSISTS. INHALATION: MOVE

PERSON

TO FRESH AIR. EYES: IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR AT LEAST 15

MINUTES AND GET MEDICAL ATTENTION IF IRRITATION PERSISTS. NOTE TO MD: NONE

KNOWN.

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Handling and Disposal
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Spill Release Procedures: 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. WEAR PROPER PROTECTIVE EQUIPMENT AS SPECIFIED IN THIS MSDS.

Waste Disposal Methods: DISPOSAL SHOULD BE MADE I/A/W FEDERAL, STATE AND LOCAL REGULATIONS. BURY IN A LICENSED LANDFILL OR BURN IN AN APPROVED INCINERATOR ACCORDING TO FEDERAL, STATE AND LOCAL REGULATIONS.

Handling And Storage Precautions: KEEP CNTNR CLSD WHEN NOT IN USE. AVOID CONTACT W/SKIN & EYES. CAUT! REMOVE CONTACT LENSES BEFORE USING SEALANT. DO NOT HANDLE LENSES UNTIL ALL SEALANT HAS BEEN CLEANED FROM FINGERTIPS, NAILS & CUTICLES. RESIDUAL SEALANT MAY REMAIN ON FINGERS FOR SEVERAL DAYS & TRANSFER TO LENSES & CAUSE SEV EYE IRRIT.

Other Precautions: PRODUCT RELEASES ACETIC ACID DURING APPLICATION AND CURING.

USE MECHANICAL VENTILATION TO STAY BELOW TLV OF 10 PPM ACETIC ACID. USE IN A WELL VENTILATED AREA TO PREVENT IRRITATION BY VAPORS. REFER TO OTHER MSDS SECTIONS FOR DETAILED INFORMATION.

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Fire and Explosion Hazard Information
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Lower Limits: UNKNOWN

Upper Limits: UNKNOWN

Extinguishing Media: ALL STANDARD FIREFIGHTING MEDIA.

Fire Fighting Procedures: USE NIOSH APPROVED SCBA AND FULL PROTECTIVE EQUIPMENT (FP N).

Unusual Fire/Explosion Hazard: HAZARD RATING SYSTEMS: /NFPA: FLAMMABILITY - 0; REACTIVITY - 0; HEALTH - 2. SENSITIVITY TO MECHANICAL IMPACT: NO. SENSITIVITY TO STATIC DISCHARGE: NOT EXPECTED.

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Control Measures
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Respiratory Protection: USE IN WELL VENTILATED AREA. USE NIOSH APPROVED
RESPIRATORY PROTECTION IF TLV EXCEEDED OR OVEREXPOSURE IS LIKELY.

Ventilation: USE ONLY IN WELL VENTILATED AREA.

Protective Gloves: CLOTH GLOVES.

Eye Protection: ANSI APPROVED CHEMICAL WORKERS GOGGLES (FP N).

Other Protective Equipment: ANSI APPROVED EYE WASH & DELUGE SHOWER (FP N).

Work Hygienic Practices: GOOD HYGIENIC PRACTICES SHOULD BE OBSERVED. WORK
CLOTHES SHOULD BE WASHED SEPARATELY AT THE END OF EACH WORK DAY.

DISPOSABLE

CLOTHING SHOULD BE DISCARDED WITH MATERIAL.

Supplemental Safety and Health: PHYSICAL DATA: ODOR THRESHOLD: UNK. DENSITY:
1060 KG/M3. ACID/ALKALINITY: UNK. VOC: <41 G/L (EXCL H*2O & EXEMPTS).
SOL IN ORGANIC SOLV: TOLUENE.

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Physical/Chemical Properties
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Vapor Pres: UNKNOWN

Vapor Density: UNKNOWN

Spec Gravity: 1.06 (WATER=1)

VOC Grams/Liter: 40

Solubility in Water: SOLUBLE

Appearance and Odor: WHITE SOLID; ACETIC ACID/VINEGAR ODOR.

Percent Volatiles by Volume: <3.9

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Reactivity Data
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Stability Indicator: YES

Stability Condition To Avoid: NONE KNOWN.

Materials To Avoid: NONE KNOWN.

Hazardous Decomposition Products: CARBON MONOXIDE, CARBON DIOXIDE, SILICON
DIOXIDE, ACETIC ACID, FORMALDEHYDE.

Hazardous Polymerization Indicator: NO

Conditions To Avoid Polymerization: WILL NOT OCCUR.

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Toxicological Information

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Toxicological Information: METHYLTRACETOXYSILANE: LD50(DERMAL) & LC50(INHAL):NONE FOUND. OCTAMETHYLCYCLOTETRASILOXANE: LD50:(DERMAL,RBT)>16,000 MG/KG; LC50:(INHAL,RAT) >41 MG/L/6HR. NON-IRRIT TO SKIN (HUMAN). POLYDIMETHYLSILOXANE SILANOL/STPD: LD50(DERMAL,RBT):NON-IRRIT; LC50:(INHAL,RAT) >535 MG/L. SILANOL/STPD SILOXANE W/ME SILSQUXNS: LD50(DERMAL):NONE FOUND; LC50:(INHAL) >535 MG/L (EST). TREATED FUMED SILICA: LD50(DERMAL) & LC50(INHAL):N/A. DIMETHYLPOLYSILOXANE: LD50(DERMAL) & LC50(INHAL):NONE. TREATED FOR ACUTE ORAL LD50. OTHER: ACETIC ACID RELEASES DURING CURING. OCTAMETHYLCYCLOTETRASILOXANE: INGEST:RODENTS GIVEN LG DOSES VIA ORAL GAVAGE (OTHER INFO)

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Ecological Information

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Ecological: ECOTOXICOLOGICAL INFO & CHEM FATE INFO:NO DATA AT THIS TIME. -- OTHER INFO:TYPICAL OF INDUSTRIAL USAGE (5-10 PPM) SHOWED NO TOXIC EFFECTS IN RODENTS. RANGE FINDING REPRO STUDIES WERE CONDUCTED (WHOLE BODY INHAL , 70 DAYS PRIOR TO MATING, THRU MATING,GESTATION & LACTATION) W/OCTAMETHYLCYCLOTETRASILOXANE (D4). RATS WERE EXPOSED TO 70 & 700 PPM. IN 700 PPM GRP, THERE WAS "STATISTICALLY SIGNIFICANT REDUCTION IN MEAN LITTER SIZE & IN IMPLANTATION SITES. NO D4 RELATED CLINICAL SIGNS WERE OBSERVED IN PUPS & NO EXPOS RELATED PATHOLOGICAL FINDINGS WERE FOUND. INTERIM RESULTS FROM 2 GENERATION REPRO STUDY IN RATS EXPOSED TO 500 & 700 PPM D4 (TRANSPORT INFO)

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MSDS Transport Information

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Transport Information: DOT SHIPPING NAME:NONE. DOT HAZ CLASS:NOT REGULATED. DOT LBL(S): NONE. UN/NA NUMBER: NONE. PLACARDS: NONE. IATA: NA. IMO IMDG-CODE: NONE. EMS NO: NA. EUROPEAN CLASS: RID (OCTI): NONE; ADR (ECE): NONE;

RAR

(IATA): NONE. -- ECOLOGICAL INFO:(WHOLE BODY INHAL, 70 DAYS PRIOR TO MATING, THRU MATING, GESTATION & LACTATION) RESULTED IN STATISTICALLY SIGNIFICANT DECR IN LIVE MEAN LITTER SIZE AS WELL AS EXT ENDED PERIODS OF OFFSPRING DELIVERY (DYSTOCIA). THESE RSLTS WERE NOT OBSERVED AT 70 & 300 PPM DOSING LEVELS. RELEVANCE OF THESE DATA TO HUMANS IS UNCLEAR. FURTHER STUDIES ARE ONGOING. IN DEVEL TOX STUDIES, RATS & RABBITS (SARA TITLE III)

Regulatory Information

Sara Title III Information: SARA SECTION 302: NONE FOUND. SARA (311, 312) HAZ CLASS: ACUTE HLTH HAZ, CHRONIC HLTH HAZ. SARA (313) CHEMS: NONE. -- TRANSPORT INFO: WERE EXPOS AT CONCS UP TO 700 PPM & 500 PPM RESPECTIVELY. NO TERATO GENIC EFTS (BIRTH DEFECTS) WERE OBSERVED IN EITHER STUDY. THIS PROD CONTAINS METHYLPOLYSILOXANES WHICH CAN GENERATE FORMALDEHYDE AT APPROX 300F (150C) & ABOVE, IN ATMS WHICH CONTAIN OXYGEN. FORMALDEHYDE IS A SKIN & RESP SENSITIZER, EYE & THROAT IRRIT, ACUTE TOXICANT & POTENTIAL CANCER HAZARD. AN MSDS FOR FORMALDEHYDE IS AVAIL FROM GE SILICONES. Federal Regulatory Information: CPSC CLASSIFICATION: NA. W HAZARD CLASS: D2A - VERY TOXIC MATLS, D2B - TOXIC MATERIALS. W TRADE SECRET: NONE. EXPORT: SCHDLE B/HTSUS: 3910.00 SILICONES IN PRIMARY FORM. ECCN: EAR99. THIS PROD OR ITS COMPONENTS ARE ON THE EUROPEAN INVENTORY OF EXISTING COMMERCIAL CHEMICALS (EINECS). THIS PROD OR ITS COMPONENTS ARE ON THE AUSTRALIAN INVENTORY (ACoin). State Regulatory Information: CALIFORNIA PROP 65: NONE.

Other Information

Other Information: TOX INFO:(1600 MG/KG DAY, 14 DAYS) DEVEL INCR LIVER WTS RELATIVE TO UNEXPOSED CONTROL ANIMALS DUE TO HEPATOCELLULAR HYPERPLASIA (INCR

NUMBER OF LIVER CELLS WHICH APPEARED NORMAL) AS WELL AS HYPERTROPH Y
(INCR
CELL SIZE). INHAL: IN INHAL STUDIES, LAB RODENTS EXPOS TO
OCTAMETHYLCYCLOTETRASIOXANE (300 PPM 5 DAYS WK, 90 DAYS) DEVEL INCR
LIVER
WTS IN FEMALE ANIMALS RELATIVE TO UNEXPOSED CONTROL ANIMALS . WHEN
EXPOS WAS
STOPPED, LIVER WTS RETURNED TO NORMAL. MICROSCOPIC EXAM OF LIVER CELLS
DID
NOT SHOW ANY EVID OF PATHOLOGY. INHAL STUDIES UTILIZING LAB RABBITS &
GUINEA PIGS SHOWED NO EFTS ON LIVER WT S. INHAL EXPOS (ECOLOGICAL INFO)

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Transportation Information

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Responsible Party Cage: 01139
Trans ID NO: 150041
Product ID: SILICONE RUBBER SEALANT, RTV102
MSDS Prepared Date: 02/05/1999
Review Date: 11/16/1999
MFN: 3
Multiple KIT Number: 0
Unit Of Issue: KT

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Detail DOT Information

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DOT PSN Code: ZZZ
DOT Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION

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Detail IMO Information

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IMO PSN Code: ZZZ
IMO Proper Shipping Name: NOT REGULATED FOR THIS MODE OF TRANSPORTATION

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Detail IATA Information

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IATA PSN Code: ZZZ
IATA Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION

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Detail AFI Information

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AFI PSN Code: ZZZ

AFI Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION

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HAZCOM Label

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Product ID: SILICONE RUBBER SEALANT, RTV102

Cage: 01139

Company Name: GENERAL ELECTRIC CO, SILICONE PRODUCTS BUSINESS DEPT

Street: 260 HUDSON RIVER RD

City: WATERFORD NY

Zipcode: 12188

Health Emergency Phone: 518-237-3330

Label Required IND: Y

Date Of Label Review: 08/06/1999

Status Code: C

Origination Code: F

Chronic Hazard IND: Y

Eye Protection IND: YES

Skin Protection IND: YES

Signal Word: WARNING

Respiratory Protection IND: YES

Health Hazard: Moderate

Contact Hazard: Slight

Fire Hazard: None

Reactivity Hazard: None

Hazard And Precautions: ACUTE: INGESTION: MAY BE HARMFUL IF SWALLOWED. SKIN
CONTACT: UNCURED PRODUCT CONTACT WILL IRRITATE LIPS, GUMS AND TONGUE.
UNCURED

PRODUCT CONTACT MAY IRRITATE SKIN. INHALATION: CAUSES IRRITATION OF TH E
MOUTH, NOSE AND THROAT. APPLIES ONLY IN UNCURED STATE. EYE CONTACT:
UNCURED

PRODUCT CONTACT IRRITATES EYES. CHRONIC (TARGET ORGAN EFFECTS):
REPRODUCTIVE

DISORDERS. MAY CAUSE LIVER EFFECTS.

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