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Common Name: 734 FLOWABLE SEALANT, CLEAR, 00000000001907506

Manufacturer: DOW CORNING

SDS Revision Date: 2/17/2015

SDS Format: GHS-US

Item Number(s): 53DA83, 53DA84, 53DA85, 53DA86, 53DA87, 53DA88, 53DA89, 53DA90

**Manufacturer Model
Number(s):**

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DOW CORNING

SAFETY DATA SHEET

DOW CORNING (R) 734 FLOWABLE SEALANT, CLEAR

VERSION: 1. 0

REVISION DATE: 02/17/2015

MSDS NUMBER: 995119-00001

DATE OF LAST ISSUE:

DATE OF FIRST ISSUE: 02/17/2015

SECTION 1. IDENTIFICATION

PRODUCT NAME: DOW CORNING(R) 734 FLOWABLE SEALANT, CLEAR

PRODUCT CODE: 000000000001907506

MANUFACTURER OR SUPPLIER'S DETAILS:

COMPANY NAME OF SUPPLIER: DOW CORNING CORPORATION

ADDRESS:

SOUTH SAGINAW ROAD
MIDLAND MICHIGAN 48686

TELEPHONE: (989) 496-6000

EMERGENCY TELEPHONE:

24 HOUR EMERGENCY TELEPHONE: (989) 496-5900

CHEMTREC: (800) 424-9300

RECOMMENDED USE OF THE CHEMICAL AND RESTRICTIONS ON USE:

RECOMMENDED USE: ADHESIVE, BINDING AGENTS

SECTION 2. HAZARDS IDENTIFICATION

GHS CLASSIFICATION:

FLAMMABLE LIQUIDS: CATEGORY 4

REPRODUCTIVE TOXICITY: CATEGORY 2

GHS LABEL ELEMENT:

HAZARD PICTOGRAMS: HEALTH HAZARD

SIGNAL WORD: WARNING

HAZARD STATEMENTS:

H227: COMBUSTIBLE LIQUID.

H361: SUSPECTED OF DAMAGING FERTILITY OR THE UNBORN CHILD.

PRECAUTIONARY STATEMENTS:

PREVENTION:

P201: OBTAIN SPECIAL INSTRUCTIONS BEFORE USE.

P202:

DO NOT HANDLE UNTIL ALL SAFETY PRECAUTIONS HAVE BEEN READ AND UNDERSTOOD.

P210: KEEP AWAY FROM HEAT/SPARKS/OPEN FLAMES/HOT SURFACES. - NO SMOKING.

P271: USE ONLY OUTDOORS OR IN A WELL-VENTILATED AREA.

P280:

WEAR PROTECTIVE GLOVES/ PROTECTIVE CLOTHING/ EYE PROTECTION/ FACE PROTECTION.

RESPONSE:

P308 + P313:

IF EXPOSED OR CONCERNED: GET MEDICAL ADVICE/ ATTENTION.

STORAGE:

P403 + P235: STORE IN A WELL-VENTILATED PLACE. KEEP COOL.

P405: STORE LOCKED UP.

DISPOSAL:

P501: DISPOSE OF CONTENTS/ CONTAINER TO AN APPROVED WASTE DISPOSAL PLANT.

OTHER HAZARDS: VAPORS MAY FORM EXPLOSIVE MIXTURE WITH AIR.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCE / MIXTURE: MIXTURE

CHEMICAL NATURE: SILICONE ELASTOMER

HAZARDOUS INGREDIENTS:

CHEMICAL NAME	CAS-NO.	CONCENTRATION (%)
AMORPHOUS FUMED SILICA	112945-52-5	>=5 - <10
OCTAMETHYLCYCLOTETRASIOXANE	556-67-2	>=0.1 - <1

SECTION 4. FIRST AID MEASURES

IF INHALED:

IF INHALED, REMOVE TO FRESH AIR.

GET MEDICAL ATTENTION IF SYMPTOMS OCCUR.

IN CASE OF SKIN CONTACT:

WASH WITH WATER AND SOAP AS A PRECAUTION.

GET MEDICAL ATTENTION IF SYMPTOMS OCCUR.

IN CASE OF EYE CONTACT:

FLUSH EYES WITH WATER AS A PRECAUTION.

GET MEDICAL ATTENTION IF IRRITATION DEVELOPS AND PERSISTS.

IF SWALLOWED:

IF SWALLOWED, DO NOT INDUCE VOMITING.
GET MEDICAL ATTENTION IF SYMPTOMS OCCUR.
RINSE MOUTH THOROUGHLY WITH WATER.

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:
SUSPECTED OF DAMAGING FERTILITY OR THE UNBORN CHILD.

PROTECTION OF FIRST-AIDERS:
NO SPECIAL PRECAUTIONS ARE NECESSARY FOR FIRST AID RESPONDERS.

NOTES TO PHYSICIAN: TREAT SYMPTOMATICALLY AND SUPPORTIVELY.

SECTION 5. FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA:
WATER SPRAY
ALCOHOL-RESISTANT FOAM
DRY CHEMICAL
CARBON DIOXIDE (CO₂)

UNSUITABLE EXTINGUISHING MEDIA: HIGH VOLUME WATER JET

SPECIFIC HAZARDS DURING FIRE FIGHTING:
DO NOT USE A SOLID WATER STREAM AS IT MAY SCATTER AND SPREAD FIRE.
FLASH BACK POSSIBLE OVER CONSIDERABLE DISTANCE.
VAPORS MAY FORM EXPLOSIVE MIXTURES WITH AIR.
EXPOSURE TO COMBUSTION PRODUCTS MAY BE A HAZARD TO HEALTH.

HAZARDOUS COMBUSTION PRODUCTS:
CARBON OXIDES
SILICON OXIDES
FORMALDEHYDE

SPECIFIC EXTINGUISHING METHODS:
USE EXTINGUISHING MEASURES THAT ARE APPROPRIATE TO LOCAL CIRCUMSTANCES
AND THE SURROUNDING ENVIRONMENT.

USE WATER SPRAY TO COOL UNOPENED CONTAINERS.

REMOVE UNDAMAGED CONTAINERS FROM FIRE AREA IF IT IS SAFE TO DO SO.

EVACUATE AREA.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS:
WEAR SELF-CONTAINED BREATHING APPARATUS FOR FIREFIGHTING IF NECESSARY.
USE PERSONAL PROTECTIVE EQUIPMENT.

SECTION 6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:
REMOVE ALL SOURCES OF IGNITION.

FOLLOW SAFE HANDLING ADVICE AND PERSONAL PROTECTIVE EQUIPMENT RECOMMENDATIONS.

ENVIRONMENTAL PRECAUTIONS:

DISCHARGE INTO THE ENVIRONMENT MUST BE AVOIDED.

PREVENT FURTHER LEAKAGE OR SPILLAGE IF SAFE TO DO SO.

PREVENT SPREADING OVER A WIDE AREA (E.G. BY CONTAINMENT OR OIL BARRIERS).

RETAIN AND DISPOSE OF CONTAMINATED WASH WATER.

LOCAL AUTHORITIES SHOULD BE ADVISED IF SIGNIFICANT SPILLAGES CANNOT BE CONTAINED.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:

NON-SPARKING TOOLS SHOULD BE USED.

SOAK UP WITH INERT ABSORBENT MATERIAL.

SUPPRESS (KNOCK DOWN) GASES/VAPORS/MISTS WITH A WATER SPRAY JET.

FOR LARGE SPILLS, PROVIDE DIKING OR OTHER APPROPRIATE CONTAINMENT TO KEEP MATERIAL FROM SPREADING. IF DIKED MATERIAL CAN BE PUMPED, STORE RECOVERED MATERIAL IN APPROPRIATE CONTAINER.

CLEAN UP REMAINING MATERIALS FROM SPILL WITH SUITABLE ABSORBENT.

LOCAL OR NATIONAL REGULATIONS MAY APPLY TO RELEASES AND DISPOSAL OF THIS MATERIAL, AS WELL AS THOSE MATERIALS AND ITEMS EMPLOYED IN THE CLEANUP OF RELEASES. YOU WILL NEED TO DETERMINE WHICH REGULATIONS ARE APPLICABLE.

SECTIONS 13 AND 15 OF THIS SDS PROVIDE INFORMATION REGARDING CERTAIN LOCAL OR NATIONAL REQUIREMENTS.

SECTION 7. HANDLING AND STORAGE

TECHNICAL MEASURES:

SEE ENGINEERING MEASURES UNDER EXPOSURE CONTROLS/PERSONAL PROTECTION SECTION.

LOCAL/TOTAL VENTILATION:

USE WITH LOCAL EXHAUST VENTILATION.

USE ONLY IN AN AREA EQUIPPED WITH EXPLOSION PROOF EXHAUST VENTILATION.

ADVICE ON SAFE HANDLING:

HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICE.

KEEP CONTAINER TIGHTLY CLOSED.

KEEP AWAY FROM HEAT AND SOURCES OF IGNITION.

TAKE PRECAUTIONARY MEASURES AGAINST STATIC DISCHARGES.

TAKE CARE TO PREVENT SPILLS, WASTE AND MINIMIZE RELEASE TO THE ENVIRONMENT.

CONDITIONS FOR SAFE STORAGE:

KEEP IN PROPERLY LABELED CONTAINERS.
KEEP TIGHTLY CLOSED.
KEEP IN A COOL, WELL-VENTILATED PLACE.
STORE IN ACCORDANCE WITH THE PARTICULAR NATIONAL REGULATIONS.
KEEP AWAY FROM HEAT AND SOURCES OF IGNITION.

MATERIALS TO AVOID:

DO NOT STORE WITH THE FOLLOWING PRODUCT TYPES:
STRONG OXIDIZING AGENTS
EXPLOSIVES
GASES

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

INGREDIENTS WITH WORKPLACE CONTROL PARAMETERS:

INGREDIENTS	CAS-NO.	VALUE TYPE (FORM OF EXPOSURE)	CONTROL PARAMETERS / PERMISSIBLE CONCENTRATION	BASIS
AMORPHOUS FUMED SILICA	112945-52-5	TWA (DUST)	20 MILLION PARTICLES PER CUBIC FOOT (SILICA)	OSHA Z-3
		TWA (DUST)	80 MG/M3 / %SiO2 (SILICA)	OSHA Z-3
		TWA	6 MG/M3 (SILICA)	NIOSH REL
OCTAMETHYLCYCLO- TETRASILOXANE	556-67-2	TWA	10 PPM	DCC OEL

ENGINEERING MEASURES:
PROCESSING MAY FORM HAZARDOUS COMPOUNDS (SEE SECTION 10).
ENSURE ADEQUATE VENTILATION, ESPECIALLY IN CONFINED AREAS.
MINIMIZE WORKPLACE EXPOSURE CONCENTRATIONS.
USE ONLY IN AN AREA EQUIPPED WITH EXPLOSION PROOF EXHAUST VENTILATION.

PERSONAL PROTECTIVE EQUIPMENT:

RESPIRATORY PROTECTION:
NO PERSONAL RESPIRATORY PROTECTIVE EQUIPMENT NORMALLY REQUIRED.

HAND PROTECTION:

MATERIAL: FLAME RETARDANT GLOVES

REMARKS:
CHOOSE GLOVES TO PROTECT HANDS AGAINST CHEMICALS DEPENDING ON THE
CONCENTRATION SPECIFIC TO PLACE OF WORK. WASH HANDS BEFORE BREAKS

AND AT THE END OF WORKDAY.

EYE PROTECTION:

WEAR THE FOLLOWING PERSONAL PROTECTIVE EQUIPMENT: SAFETY GLASSES

SKIN AND BODY PROTECTION:

SELECT APPROPRIATE PROTECTIVE CLOTHING BASED ON CHEMICAL RESISTANCE DATA AND AN ASSESSMENT OF THE LOCAL EXPOSURE POTENTIAL.

WEAR THE FOLLOWING PERSONAL PROTECTIVE EQUIPMENT:

FLAME RETARDANT ANTISTATIC PROTECTIVE CLOTHING.

SKIN CONTACT MUST BE AVOIDED BY USING IMPERVIOUS PROTECTIVE CLOTHING (GLOVES, APRONS, BOOTS, ETC).

HYGIENE MEASURES:

ENSURE THAT EYE FLUSHING SYSTEMS AND SAFETY SHOWERS ARE LOCATED CLOSE TO THE WORKING PLACE.

WHEN USING DO NOT EAT, DRINK OR SMOKE.

WASH CONTAMINATED CLOTHING BEFORE RE-USE.

THESE PRECAUTIONS ARE FOR ROOM TEMPERATURE HANDLING. USE AT ELEVATED TEMPERATURE OR AEROSOL/SPRAY APPLICATIONS MAY REQUIRE ADDED PRECAUTIONS.

FOR FURTHER INFORMATION REGARDING THE USE OF SILICONES / ORGANIC OILS IN CONSUMER AEROSOL APPLICATIONS, PLEASE REFER TO THE GUIDANCE DOCUMENT REGARDING THE USE OF THESE TYPE OF MATERIALS IN CONSUMER AEROSOL APPLICATIONS THAT HAS BEEN DEVELOPED BY THE SILICONE INDUSTRY (WWW.SEHSC.COM) OR CONTACT THE DOW CORNING CUSTOMER SERVICE GROUP.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: VISCOUS LIQUID

COLOR: COLORLESS

ODOR: ACETIC ACID

ODOR THRESHOLD: NO DATA AVAILABLE

PH: NO DATA AVAILABLE

MELTING POINT/FREEZING POINT: NO DATA AVAILABLE

INITIAL BOILING POINT AND BOILING RANGE: >100 DEG. C

FLASH POINT: 87 DEG. C

METHOD: CLOSED CUP

EVAPORATION RATE: NO DATA AVAILABLE

FLAMMABILITY (SOLID, GAS): NOT APPLICABLE

UPPER EXPLOSION LIMIT: NO DATA AVAILABLE

LOWER EXPLOSION LIMIT: NO DATA AVAILABLE

VAPOR PRESSURE: NO DATA AVAILABLE

RELATIVE VAPOR DENSITY: NO DATA AVAILABLE

RELATIVE DENSITY: 1.03

SOLUBILITY (IES):

WATER SOLUBILITY: NO DATA AVAILABLE

PARTITION COEFFICIENT N-OCTANOL/WATER: NO DATA AVAILABLE

AUTOIGNITION TEMPERATURE: NO DATA AVAILABLE

DECOMPOSITION TEMPERATURE: NO DATA AVAILABLE

VISCOSITY:

VISCOSITY, DYNAMIC: 45,000 MPA.S

EXPLOSIVE PROPERTIES: NOT EXPLOSIVE

OXIDIZING PROPERTIES:

THE SUBSTANCE OR MIXTURE IS NOT CLASSIFIED AS OXIDIZING.

MOLECULAR WEIGHT: NO DATA AVAILABLE

SECTION 10. STABILITY AND REACTIVITY

REACTIVITY: NOT CLASSIFIED AS A REACTIVITY HAZARD.

CHEMICAL STABILITY: STABLE UNDER NORMAL CONDITIONS.

POSSIBILITY OF HAZARDOUS REACTIONS:

COMBUSTIBLE LIQUID.

VAPORS MAY FORM EXPLOSIVE MIXTURE WITH AIR.

USE AT ELEVATED TEMPERATURES MAY FORM HIGHLY HAZARDOUS COMPOUNDS.

CAN REACT WITH STRONG OXIDIZING AGENTS.

ACETIC ACID IS FORMED UPON CONTACT WITH WATER OR HUMID AIR.

HAZARDOUS DECOMPOSITION PRODUCTS WILL BE FORMED AT ELEVATED TEMPERATURES.

CONDITIONS TO AVOID: HEAT, FLAMES AND SPARKS.

INCOMPATIBLE MATERIALS: OXIDIZING AGENTS

HAZARDOUS DECOMPOSITION PRODUCTS:

THERMAL DECOMPOSITION: FORMALDEHYDE

SECTION 11. TOXICOLOGICAL INFORMATION

INFORMATION ON LIKELY ROUTES OF EXPOSURE:

INHALATION
SKIN CONTACT
INGESTION
EYE CONTACT

ACUTE TOXICITY: NOT CLASSIFIED BASED ON AVAILABLE INFORMATION.

INGREDIENTS:

AMORPHOUS FUMED SILICA:

ACUTE ORAL TOXICITY:

LD50 (RAT): >20,000 MG/KG

ASSESSMENT: THE SUBSTANCE OR MIXTURE HAS NO ACUTE ORAL TOXICITY

REMARKS: INFORMATION TAKEN FROM REFERENCE WORKS AND THE LITERATURE.

OCTAMETHYLCYCLOTETRASILOXANE:

ACUTE ORAL TOXICITY:

LD50 (RAT): >4,800 MG/KG

ASSESSMENT: THE SUBSTANCE OR MIXTURE HAS NO ACUTE ORAL TOXICITY

REMARKS: BASED ON TEST DATA

ACUTE INHALATION TOXICITY:

LC50 (RAT): 2975 PPM

EXPOSURE TIME: 4 H

TEST ATMOSPHERE: VAPOR

ASSESSMENT: THE SUBSTANCE OR MIXTURE HAS NO ACUTE INHALATION TOXICITY

REMARKS: BASED ON TEST DATA

ACUTE DERMAL TOXICITY:

LD50 (RABBIT): >2.5 ML/KG

ASSESSMENT: THE SUBSTANCE OR MIXTURE HAS NO ACUTE DERMAL TOXICITY

REMARKS: BASED ON TEST DATA

SKIN CORROSION/IRRITATION: NOT CLASSIFIED BASED ON AVAILABLE INFORMATION.

PRODUCT:

RESULT: NO SKIN IRRITATION

REMARKS: BASED ON DATA FROM SIMILAR MATERIALS

INGREDIENTS:

OCTAMETHYLCYCLOTETRASILOXANE:

SPECIES: RABBIT

RESULT: NO SKIN IRRITATION

REMARKS: BASED ON TEST DATA

SERIOUS EYE DAMAGE/EYE IRRITATION:
NOT CLASSIFIED BASED ON AVAILABLE INFORMATION.

PRODUCT:

RESULT: NO EYE IRRITATION
REMARKS: BASED ON DATA FROM SIMILAR MATERIALS

INGREDIENTS:

OCTAMETHYLCYCLOTETRASIOXANE:

SPECIES: RABBIT
RESULT: NO EYE IRRITATION
REMARKS: BASED ON TEST DATA

RESPIRATORY OR SKIN SENSITIZATION:
SKIN SENSITIZATION: NOT CLASSIFIED BASED ON AVAILABLE INFORMATION.
RESPIRATORY SENSITIZATION: NOT CLASSIFIED BASED ON AVAILABLE INFORMATION.

INGREDIENTS:

OCTAMETHYLCYCLOTETRASIOXANE:

ASSESSMENT: DOES NOT CAUSE SKIN SENSITIZATION.

TEST TYPE: MAXIMIZATION TEST (GPMT)
SPECIES: GUINEA PIG
REMARKS: BASED ON TEST DATA

GERM CELL MUTAGENICITY: NOT CLASSIFIED BASED ON AVAILABLE INFORMATION.

INGREDIENTS:

OCTAMETHYLCYCLOTETRASIOXANE:

GENOTOXICITY IN VITRO:

TEST TYPE: BACTERIAL REVERSE MUTATION ASSAY (AMES)
RESULT: NEGATIVE
REMARKS: BASED ON TEST DATA

TEST TYPE: MUTAGENICITY (IN VITRO MAMMALIAN CYTOGENETIC TEST)
RESULT: NEGATIVE
REMARKS: BASED ON TEST DATA

TEST TYPE: CHROMOSOME ABERRATION TEST IN VITRO
RESULT: NEGATIVE
REMARKS: BASED ON TEST DATA

TEST TYPE: IN VITRO SISTER CHROMATID EXCHANGE ASSAY IN MAMMALIAN CELLS
RESULT: NEGATIVE
REMARKS: BASED ON TEST DATA

TEST TYPE:
DNA DAMAGE AND REPAIR, UNSCHEDULED DNA SYNTHESIS IN MAMMALIAN CELLS
(IN VITRO)

RESULT: NEGATIVE

REMARKS: BASED ON TEST DATA

GENOTOXICITY IN VIVO:

TEST TYPE:

MAMMALIAN ERYTHROCYTE MICRONUCLEUS TEST (IN VIVO CYTOGENETIC ASSAY)

SPECIES: RAT

APPLICATION ROUTE: INHALATION (VAPOR)

RESULT: NEGATIVE

REMARKS: BASED ON TEST DATA

TEST TYPE: RODENT DOMINANT LETHAL TEST (GERM CELL) (IN VIVO)

SPECIES: RAT

APPLICATION ROUTE: INGESTION

RESULT: NEGATIVE

REMARKS: BASED ON TEST DATA

GERM CELL MUTAGENICITY - ASSESSMENT:

ANIMAL TESTING DID NOT SHOW ANY MUTAGENIC EFFECTS.

CARCINOGENICITY: NOT CLASSIFIED BASED ON AVAILABLE INFORMATION.

IARC:

NO INGREDIENT OF THIS PRODUCT PRESENT AT LEVELS GREATER THAN OR EQUAL TO 0.1% IS IDENTIFIED AS PROBABLE, POSSIBLE OR CONFIRMED HUMAN CARCINOGEN BY IARC.

OSHA:

NO INGREDIENT OF THIS PRODUCT PRESENT AT LEVELS GREATER THAN OR EQUAL TO 0.1% IS IDENTIFIED AS A CARCINOGEN OR POTENTIAL CARCINOGEN BY OSHA.

NTP:

NO INGREDIENT OF THIS PRODUCT PRESENT AT LEVELS GREATER THAN OR EQUAL TO 0.1% IS IDENTIFIED AS A KNOWN OR ANTICIPATED CARCINOGEN BY NTP.

REPRODUCTIVE TOXICITY: SUSPECTED OF DAMAGING FERTILITY OR THE UNBORN CHILD.

INGREDIENTS:

OCTAMETHYLCYCLOTETRASILOXANE:

EFFECTS ON FERTILITY:

TEST TYPE: TWO-GENERATION REPRODUCTION TOXICITY STUDY

SPECIES: RAT, MALE AND FEMALE

APPLICATION ROUTE: INHALATION (VAPOR)

SYMPTOMS: EFFECTS ON FERTILITY.

REMARKS: BASED ON TEST DATA

EFFECTS ON FETAL DEVELOPMENT:

TEST TYPE: PRENATAL DEVELOPMENT TOXICITY STUDY (TERATOGENICITY)
SPECIES: RABBIT
APPLICATION ROUTE: INHALATION (VAPOR)
SYMPTOMS: NO EFFECTS ON FETAL DEVELOPMENT.
REMARKS: BASED ON TEST DATA

REPRODUCTIVE TOXICITY - ASSESSMENT:
SOME EVIDENCE OF ADVERSE EFFECTS ON SEXUAL FUNCTION AND FERTILITY, BASED ON ANIMAL EXPERIMENTS.

STOT-SINGLE EXPOSURE: NOT CLASSIFIED BASED ON AVAILABLE INFORMATION.

STOT-REPEATED EXPOSURE: NOT CLASSIFIED BASED ON AVAILABLE INFORMATION.

INGREDIENTS:

OCTAMETHYLCYCLOTETRASILOXANE:

ROUTES OF EXPOSURE: INGESTION

ASSESSMENT:

NO SIGNIFICANT HEALTH EFFECTS OBSERVED IN ANIMALS AT CONCENTRATIONS OF 100 MG/KG BW OR LESS.

ROUTES OF EXPOSURE: INHALATION (VAPOR)

ASSESSMENT:

NO SIGNIFICANT HEALTH EFFECTS OBSERVED IN ANIMALS AT CONCENTRATIONS OF 1 MG/L/6H/D OR LESS.

ROUTES OF EXPOSURE: SKIN CONTACT

ASSESSMENT:

NO SIGNIFICANT HEALTH EFFECTS OBSERVED IN ANIMALS AT CONCENTRATIONS OF 200 MG/KG BW OR LESS.

REPEATED DOSE TOXICITY:

INGREDIENTS:

OCTAMETHYLCYCLOTETRASILOXANE:

SPECIES: RAT

APPLICATION ROUTE: INGESTION

REMARKS: BASED ON TEST DATA

SPECIES: RAT

APPLICATION ROUTE: INHALATION (VAPOR)

REMARKS: BASED ON TEST DATA

SPECIES: RABBIT

APPLICATION ROUTE: SKIN CONTACT

REMARKS: BASED ON TEST DATA

ASPIRATION TOXICITY: NOT CLASSIFIED BASED ON AVAILABLE INFORMATION.

PRODUCT: NO ASPIRATION TOXICITY CLASSIFICATION

FURTHER INFORMATION:

INGREDIENTS:

OCTAMETHYLCYCLOTETRASILOXANE:

REMARKS:

RESULTS FROM A 2 YEAR REPEATED VAPOR INHALATION EXPOSURE STUDY TO RATS OF OCTAMETHYLCYCLOTETRASILOXANE (D4) INDICATE EFFECTS (BENIGN UTERINE ADENOMAS) IN THE UTERUS OF FEMALE ANIMALS. THIS FINDING OCCURRED AT THE HIGHEST EXPOSURE DOSE (700 PPM) ONLY. STUDIES TO DATE HAVE NOT DEMONSTRATED IF THESE EFFECTS OCCUR THROUGH PATHWAYS THAT ARE RELEVANT TO HUMANS. BASED ON THE AVAILABLE INFORMATION ON ITS POTENTIAL TO CAUSE HARM TO HUMAN HEALTH, HEALTH CANADA, IN A 2008 SCREENING ASSESSMENT, HAS CONCLUDED THAT OCTAMETHYLCYCLOTETRASILOXANE IS NOT ENTERING THE ENVIRONMENT IN A QUANTITY OR CONCENTRATION OR UNDER CONDITIONS THAT CONSTITUTE OR MAY CONSTITUTE A DANGER IN CANADA TO HUMAN LIFE OR HEALTH ([HTTP://WWW.EC.GC.CA/ESEEEES/DEFAULT.ASP?LANG=EN&N=2481B508-1](http://www.ec.gc.ca/eseees/default.asp?lang=en&n=2481b508-1)). REPEATED EXPOSURE IN RATS TO D4 RESULTED IN PROTOPORPHYRIN ACCUMULATION IN THE LIVER. WITHOUT KNOWLEDGE OF THE SPECIFIC MECHANISM LEADING TO THE PROTOPORPHYRIN ACCUMULATION THE RELEVANCE OF THIS FINDING TO HUMANS IS UNKNOWN.

SECTION 12. ECOLOGICAL INFORMATION

ECOTOXICITY:

INGREDIENTS:

OCTAMETHYLCYCLOTETRASILOXANE:

TOXICITY TO FISH:

LC50 (ONCORHYNCHUS MYKISS (RAINBOW TROUT)): >0.022 MG/L
EXPOSURE TIME: 96 H
REMARKS: NO TOXICITY AT THE LIMIT OF SOLUBILITY.

TOXICITY TO DAPHNIA AND OTHER AQUATIC INVERTEBRATES:

EC50 (DAPHNIA SP.): >0.015 MG/L
EXPOSURE TIME: 48 H
REMARKS: NO TOXICITY AT THE LIMIT OF SOLUBILITY.

TOXICITY TO ALGAE:

EC50: >0.022 MG/L
EXPOSURE TIME: 96 H
REMARKS: NO TOXICITY AT THE LIMIT OF SOLUBILITY.

NOEC: 0.022 MG/L
EXPOSURE TIME: 96 H
REMARKS: NO TOXICITY AT THE LIMIT OF SOLUBILITY.

TOXICITY TO FISH (CHRONIC TOXICITY):

NOEC (ONCORHYNCHUS MYKISS (RAINBOW TROUT)): ≥ 0.0044 MG/L
REMARKS: NO TOXICITY AT THE LIMIT OF SOLUBILITY.

TOXICITY TO DAPHNIA AND OTHER AQUATIC INVERTEBRATES (CHRONIC TOXICITY):

NOEC (DAPHNIA MAGNA (WATER FLEA)): > 0.0079 MG/L
EXPOSURE TIME: 21 D
REMARKS: NO TOXICITY AT THE LIMIT OF SOLUBILITY.

TOXICITY TO BACTERIA:

IC50: $> 10,000$ MG/L
METHOD: ISO 8192

ECOTOXICOLOGY ASSESSMENT:

CHRONIC AQUATIC TOXICITY:
MAY CAUSE LONG LASTING HARMFUL EFFECTS TO AQUATIC LIFE.

PERSISTENCE AND DEGRADABILITY:

INGREDIENTS:

OCTAMETHYLCYCLOTETRASIOXANE:

BIODEGRADABILITY:

RESULT: NOT READILY BIODEGRADABLE.
BIODEGRADATION: 3.7%
EXPOSURE TIME: 28 D
METHOD: OECD TEST GUIDELINE 310

STABILITY IN WATER:

DEGRADATION HALF LIFE: 69.3 - 144 H (24.6 DEG. C) PH: 7
METHOD: OECD TEST GUIDELINE 111

BIOACCUMULATIVE POTENTIAL:

INGREDIENTS:

OCTAMETHYLCYCLOTETRASIOXANE:

PARTITION COEFFICIENT N-OCTANOL/WATER:
LOG POW: 6.48 (25.1 DEG. C)

MOBILITY IN SOIL: NO DATA AVAILABLE

OTHER ADVERSE EFFECTS:

INGREDIENTS:

OCTAMETHYLCYCLOTETRASIOXANE:

RESULTS OF PBT AND VPVB ASSESSMENT:

REMARKS:

OCTAMETHYLCYCLOTETRASILOXANE (D4) MEETS THE CURRENT REACH ANNEX XIII CRITERIA FOR PBT AND VPVB. IN CANADA, D4 HAS BEEN ASSESSED AND DEEMED TO MEET THE PIT CRITERIA. HOWEVER, D4 DOES NOT BEHAVE SIMILARLY TO KNOWN PBT/VPVB SUBSTANCES. THE WEIGHT OF SCIENTIFIC EVIDENCE FROM FIELD STUDIES SHOWS THAT D4 IS NOT BIOMAGNIFYING IN AQUATIC AND TERRESTRIAL FOOD WEBS. D4 IN AIR WILL DEGRADE BY REACTION WITH NATURALLY OCCURRING HYDROXYL RADICALS IN THE ATMOSPHERE. ANY D4 IN AIR THAT DOES NOT DEGRADE BY REACTION WITH HYDROXYL RADICALS IS NOT EXPECTED TO DEPOSIT FROM THE AIR TO WATER, TO LAND, OR TO LIVING ORGANISMS.

SECTION 13. DISPOSAL CONSIDERATIONS

DISPOSAL METHODS:

RESOURCE CONSERVATION AND RECOVERY ACT (RCRA):

THIS PRODUCT HAS BEEN EVALUATED FOR RCRA CHARACTERISTICS AND DOES NOT MEET THE CRITERIA OF HAZARDOUS WASTE IF DISCARDED IN ITS PURCHASED FORM.

WASTE FROM RESIDUES: DISPOSE OF IN ACCORDANCE WITH LOCAL REGULATIONS.

CONTAMINATED PACKAGING:

DISPOSE OF AS UNUSED PRODUCT.

EMPTY CONTAINERS SHOULD BE TAKEN TO AN APPROVED WASTE HANDLING SITE FOR RECYCLING OR DISPOSAL.

DO NOT BURN, OR USE A CUTTING TORCH ON, THE EMPTY DRUM.

SECTION 14. TRANSPORT INFORMATION

INTERNATIONAL REGULATION:

UNRTDG: NOT REGULATED AS A DANGEROUS GOOD

IATA-DGR: NOT REGULATED AS A DANGEROUS GOOD

IMDG-CODE: NOT REGULATED AS A DANGEROUS GOOD

TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE: NOT APPLICABLE FOR PRODUCT AS SUPPLIED.

DOMESTIC REGULATION:

49 CFR:

UN/ID/NA NUMBER: NA 1993

PROPER SHIPPING NAME:

COMBUSTIBLE LIQUID, N.O.S. (OCTAMETHYLCYCLOTETRASILOXANE,

DECAMETHYLCYCLOPENTASILOXANE)

CLASS: CBL

PACKING GROUP: III

LABELS: NONE

ERG CODE: 128

MARINE POLLUTANT: NO

REMARKS:

ABOVE APPLIES ONLY TO CONTAINERS OVER 119 GALLONS OR 450 LITERS. NOT REGULATED IF SHIPPED IN PACKAGES LESS THAN OR EQUAL TO 119 GALLONS (450 LITERS).

SECTION 15. REGULATORY INFORMATION

EPCRA - EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW:

CERCLA REPORTABLE QUANTITY:

INGREDIENTS	CAS-NO.	COMPONENT RQ (LBS)	CALCULATED PRODUCT RQ (LBS)
ACETIC ACID	64-19-7	5000	*
ACETIC ANHYDRIDE	108-24-7	5000	*

*: CALCULATED RQ EXCEEDS REASONABLY ATTAINABLE UPPER LIMIT.

SARA 304 EXTREMELY HAZARDOUS SUBSTANCES REPORTABLE QUANTITY:

THIS MATERIAL DOES NOT CONTAIN ANY COMPONENTS WITH A SECTION 304 EHS RQ.

SARA 311/312 HAZARDS:

FIRE HAZARD

CHRONIC HEALTH HAZARD

SARA 302:

NO CHEMICALS IN THIS MATERIAL ARE SUBJECT TO THE REPORTING REQUIREMENTS OF SARA TITLE III, SECTION 302.

SARA 313:

THIS MATERIAL DOES NOT CONTAIN ANY CHEMICAL COMPONENTS WITH KNOWN CAS NUMBERS THAT EXCEED THE THRESHOLD (DE MINIMIS) REPORTING LEVELS ESTABLISHED BY SARA TITLE III, SECTION 313.

PENNSYLVANIA RIGHT TO KNOW:

DIMETHYL SILOXANE, HYDROXY-TERMINATED	70131-67-8	90 - 100%
AMORPHOUS FUMED SILICA	112945-52-5	5 - 10%

ACETIC ACID	64-19-7	0 - 0.1%
ACETIC ANHYDRIDE	108-24-7	0 - 0.1%
NEW JERSEY RIGHT TO KNOW:		
DIMETHYL SILOXANE, HYDROXY-TERMINATED	70131-67-8	90 - 100%
AMORPHOUS FUMED SILICA	112945-52-5	5 - 10%

CALIFORNIA PROP 65:
 THIS PRODUCT DOES NOT CONTAIN ANY CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH, OR ANY OTHER REPRODUCTIVE DEFECTS.

THE INGREDIENTS OF THIS PRODUCT ARE REPORTED IN THE FOLLOWING INVENTORIES:

NZIOC: ALL INGREDIENTS LISTED OR EXEMPT.

REACH: ALL INGREDIENTS (PRE-)REGISTERED OR EXEMPT.

TSCA:
 ALL CHEMICAL SUBSTANCES IN THIS MATERIAL ARE INCLUDED ON OR EXEMPTED FROM LISTING ON THE TSCA INVENTORY OF CHEMICAL SUBSTANCES.

PICCS: ALL INGREDIENTS LISTED OR EXEMPT.

KECI: ALL INGREDIENTS LISTED, EXEMPT OR NOTIFIED.

ENCS/ISHL:
 ALL COMPONENTS ARE LISTED ON ENCS/ISHL OR EXEMPTED FROM INVENTORY LISTING.

IECSC: ALL INGREDIENTS LISTED OR EXEMPT.

AICS: ALL INGREDIENTS LISTED OR EXEMPT.

DSL:
 ALL CHEMICAL SUBSTANCES IN THIS PRODUCT COMPLY WITH THE CEPA 1999 AND NSNR AND ARE ON OR EXEMPT FROM LISTING ON THE CANADIAN DOMESTIC SUBSTANCES LIST (DSL).

INVENTORIES:
 AICS (AUSTRALIA), DSL (CANADA), IECSC (CHINA), REACH (EUROPEAN UNION), ENCS (JAPAN), ISHL (JAPAN), KECI (KOREA), NZIOC (NEW ZEALAND), PICCS (PHILIPPINES), NECSI (TAIWAN), TSCA (USA)

SECTION 16. OTHER INFORMATION

FURTHER INFORMATION:

NFPA:
 HEALTH 0
 FLAMMABILITY 2
 INSTABILITY 0
 SPECIAL HAZARD.

HMIS III:
HEALTH 0*
FLAMMABILITY 2
PHYSICAL HAZARD 0

0 = NOT SIGNIFICANT
1 = SLIGHT
2 = MODERATE
3 = HIGH
4 = EXTREME
* = CHRONIC

FULL TEXT OF OTHER ABBREVIATIONS:

DCC OEL: DOW CORNING GUIDE

NIOSH REL: USA. NIOSH RECOMMENDED EXPOSURE LIMITS

OSHA Z-3:
USA. OCCUPATIONAL EXPOSURE LIMITS (OSHA) - TABLE Z-3 MINERAL DUSTS

DCC OEL / TWA: TIME WEIGHTED AVERAGE

NIOSH REL / TWA:
TIME-WEIGHTED AVERAGE CONCENTRATION FOR UP TO A 10-HOUR WORKDAY DURING A
40-HOUR WORKWEEK

OSHA Z-3 / TWA: 8-HOUR TIME WEIGHTED AVERAGE

SOURCES OF KEY DATA USED TO COMPILE THE MATERIAL SAFETY DATA SHEET:
INTERNAL TECHNICAL DATA, DATA FROM RAW MATERIAL SDSS, OECD ECHEM PORTAL
SEARCH RESULTS AND EUROPEAN CHEMICALS AGENCY, [HTTP://ECHA.EUROPA.EU/](http://ECHA.EUROPA.EU/)

REVISION DATE: 02/17/2015

THE INFORMATION PROVIDED IN THIS SAFETY DATA SHEET IS CORRECT TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF AT THE DATE OF ITS PUBLICATION. THE INFORMATION IS DESIGNED ONLY AS A GUIDANCE FOR SAFE HANDLING, USE, PROCESSING, STORAGE, TRANSPORTATION, DISPOSAL AND RELEASE AND SHALL NOT BE CONSIDERED A WARRANTY OR QUALITY SPECIFICATION OF ANY TYPE. THE INFORMATION PROVIDED RELATES ONLY TO THE SPECIFIC MATERIAL IDENTIFIED AT THE TOP OF THIS SDS AND MAY NOT BE VALID WHEN THE SDS MATERIAL IS USED IN COMBINATION WITH ANY OTHER MATERIALS OR IN ANY PROCESS, UNLESS SPECIFIED IN THE TEXT. MATERIAL USERS SHOULD REVIEW THE INFORMATION AND RECOMMENDATIONS IN THE SPECIFIC CONTEXT OF THEIR INTENDED MANNER OF HANDLING, USE, PROCESSING AND STORAGE, INCLUDING AN ASSESSMENT OF THE APPROPRIATENESS OF THE SDS MATERIAL IN THE USER'S END PRODUCT, IF APPLICABLE.

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