

**RTV108
ACETOXY SEALANT (translucent)**

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Manufacturer Name: Momentive Performance Materials LLC
260 Hudson River Road
Waterford NY 12188

Revised: 03/11/2015

Prepared by Product Safety Team
CHEMTREC 1-800-424-9300
MSDS Contact 1-888-443-9466
Information 4information@momentive.com

Chemical Family/Use: Sealant

Formula: MixtureSilicone sealant

HMIS

Health: 2 Flammability: 1 Reactivity: 0

NFPA

Health: 2 Flammability: 1 Reactivity: 0

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

WARNING! Irritating to eyes, respiratory system and skin. Adverse liver and reproductive effects reported in animals.

Form: Paste

Color: Colorless

Odor: Acetic acid.

POTENTIAL HEALTH EFFECTS

SKIN

Uncured product contact will irritate lips, gums and tongue. Skin irritation is possible after contact with the uncured product.

INHALATION

Applies in uncured state.

EYES

Eye irritation is possible after contact with the uncured product.

SUBCHRONIC (TARGET ORGAN)

Liver; Reproductive hazard.

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.

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ROUTES OF EXPOSURE
 Dermal; Eye

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>PRODUCT COMPOSITION</u>	<u>CAS-No.</u>	<u>WGT. %</u>
<u>A. HAZARDOUS</u>		
Octamethylcyclotetrasiloxane	556-67-2	1 - 5 %
<u>B. NON-HAZARDOUS</u>		
Dimethylpolysiloxane	70131-67-8	30 - 60 %
Treated Filler	68611-44-9	10 - 30 %
Siloxanes and Silicones, di-Me hydroxy terminated	70131-67-8	10 - 30 %
Siloxanes & Silicones, Dimethylpolymers w/Methylsilsesquioxanes	68554-67-6	5 - 10 %

4. FIRST AID MEASURES

INGESTION

If swallowed, do NOT induce vomiting. Give a glass of water. Do not give victim anything to drink if he is unconscious. Get medical attention.

SKIN

Wash with soap and water.

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 with eyes, rinse immediately with plenty of water and seek medical advice.

NOTE TO PHYSICIAN

None known.

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5. FIRE-FIGHTING MEASURES

FLASH POINT: > 93.3 °C; 200 °F
METHOD Estimated
IGNITION TEMPERATURE: No data available.
FLAMMABLE LIMITS LEL: Not applicable
FLAMMABLE LIMITS UEL: Not applicable

SENSITIVITY TO MECHANICAL IMPACT: No

SENSITIVITY TO STATIC DISCHARGE
Sensitivity to static discharge is not expected.

EXTINGUISHING MEDIA
All standard extinguishing agents are suitable.

SPECIAL FIRE FIGHTING 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. Wear proper protective equipment as specified in the protective equipment section.

7. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE
Avoid contact with eyes, skin, and clothing. Use only in well-ventilated areas. Avoid accidental ingestion of this material. Wash hands and face before eating, drinking, smoking, using toilet facilities, or applying cosmetics.

Remove contact lenses before using sealant. Do not handle lenses until all sealant has been cleaned from the finger and hands. Keep out of reach of children. Keep container closed. May generate formaldehyde at temperatures greater than 150 C(300 F). See Section 8 of the MSDS for Personal Protective Equipment.

STORAGE
Keep container tightly closed in a cool, well-ventilated place.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS

Provide adequate general and local exhaust ventilation.; Eye washes and showers for emergency use.

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 29CFR 1910.134).

PROTECTIVE GLOVES

Butyl rubber gloves are recommended.

EYE AND FACE PROTECTION

Safety glasses with side shields

OTHER PROTECTIVE EQUIPMENT

Wear suitable protective clothing and eye/face protection.

Exposure Guidelines

Component	CAS-No.	Source	Value
Octamethylcyclotetrasil oxane	556-67-2	Z_INTL_OEL, REL	5 ppm
Octamethylcyclotetrasil oxane	556-67-2	Z_INTL_OEL, REL	5 ppm

Absence of values indicates none found

PEL - OSHA Permissible Exposure Limit; TLV - ACGIH Threshold Limit Value; TWA - Time Weighted Average; INTL REL - Internal Recommended Exposure Limit

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):	Not applicable
VAPOR PRESSURE (20 C) (MM HG):	No data available.
VAPOR DENSITY (AIR=1):	No data available.
FREEZING POINT:	No data available.
PHYSICAL STATE:	Paste
ODOR:	Acetic acid.
Color:	Colorless
EVAPORATION RATE (BUTYL ACETATE=1):	No data available.
SPECIFIC GRAVITY:	1.06
DENSITY:	ca. 1.06 g/cm ³
ACID / ALKALINITY (MEQ/G):	No data available.
pH:	No data available.

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SOLUBILITY IN WATER (20 C):	Insoluble
SOLUBILITY IN ORGANIC SOLVENT (STATE SOLVENT):	Toluene
VOLATILE ORGANIC CONTENT:	2.4 %(m)
VOC EXCL. H2O & EXEMPTS (G/L):	26 g/l

10. STABILITY AND REACTIVITY

STABILITY

Stable

HAZARDOUS POLYMERIZATION.

Hazardous polymerisation does not occur.

HAZARDOUS THERMAL DECOMPOSITION / COMBUSTION PRODUCTS

Carbon dioxide; Acetic acid.; Silicon dioxide.; Formaldehyde.; 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.

INCOMPATIBLE MATERIALS

None known.

CONDITIONS TO AVOID

None known.

11. TOXICOLOGICAL INFORMATION

ACUTE ORAL

Octamethylcyclotetrasiloxane; LD50; Species: Rat; > 4,800 mg/kg; Method: OECD-Guideline 401 (Acute Oral Toxicity)

Octamethylcyclotetrasiloxane; LD50; Species: Mouse; 1,700 mg/kg;

REPEATED DOSE TOXICITY

Test substance: Octamethylcyclotetrasiloxane; Species: Rat;
NOAEL - No Observable Adverse Effect Level: 150 mg/kg.

Test substance: Octamethylcyclotetrasiloxane; Species: Rabbit;
NOAEL - No Observable Adverse Effect Level: 1 mg/kg.

CARCINOGENICITY

No data available.

ACUTE DERMAL

Octamethylcyclotetrasiloxane; LD50; Species: Rat; > 2,400 mg/kg; Method: OECD-Guideline 402 (Acute Dermal Toxicity)

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ACUTE INHALATION

Octamethylcyclotetrasiloxane; LC50; Species: Rat; 36 mg/l; Method: OECD Test Guideline 403

OTHER

Octamethylcyclotetrasiloxane (D4) Ingestion: Rodents given large doses via oral gavage of Octamethylcyclotetrasiloxane (1600mg/kg/day, 14 days), developed increased liver weights relative to unexposed control animals due to hepatocellular hyperplasia (increased number of liver cells which appear normal) as well as hypertrophy (increased cell size). Inhalation: In inhalation studies, laboratory rodents exposed to Octamethylcyclotetrasiloxane (300 ppm five days/week, 90 days) developed increased liver weights in female animals relative to unexposed control animals. When the exposure was stopped, liver weights returned to normal. Microscopic examination of the liver cells did not show any evidence of pathology. This response in rats, which does not affect the animal's health, is well-documented and widely recognized. It is related to an increase of liver enzymes that metabolize and eliminate a material from the body. The increased liver weight reverses even while the D4 exposure continues. The finding is not adverse, but is considered a natural adaptive change in rats, and does not represent a hazard to humans. Inhalation studies utilizing laboratory rabbits and guinea pigs showed no effects on liver weights. Inhalation exposures typical of industrial usage (5-10 ppm) showed no toxic effects in rodents. Range finding reproductive studies were conducted (whole body inhalation, 70 days prior to mating, through mating, gestation and lactation), with D4. Rats were exposed to 70 and 700 ppm. In the 700 ppm group, there was a statistically significant reduction in mean litter size and in implantation sites. No D4 related clinical signs were observed in the pups and no exposure related pathological findings were found. A two-year, combined chronic/carcinogenicity study, during which rats were exposed to D4 by inhalation, data showed a statistically significant increase in a benign uterine tumor in female rats exposed at the highest level--a level much higher than the low levels that consumers or workers may encounter. An expert panel of independent scientists who have reviewed the results of this research concur that the finding seen in the two-year study occurred through a biological pathway that is specific to the rat and is not relevant to humans. Therefore, this observed effect does not indicate a potential health hazard to humans. In developmental toxicity studies, rats and rabbits were exposed to D4 at concentrations up to 700 ppm and 500 ppm, respectively. No teratogenic effects (birth defects) were observed in either study.

Contains dibutyltin compound(s) - May impair fertility. May cause harm to unborn child.

GENETIC TOXICITY IN VITRO

Octamethylcyclotetrasiloxane; Test type: Ames-Test; Result: negative (not mutagenic). Method: OECD-Guideline 471 (Genetic Toxicology: Salmonella typhimurium, Reverse Mutation Assay)

Octamethylcyclotetrasiloxane; Test type: Mouse Lymphoma Assay (OECD Guideline 476); Result: negative (not mutagenic)

GENETIC TOXICITY IN VIVO

Octamethylcyclotetrasiloxane; Test type: Chromosomal aberration; Result: negative. Method: OECD-Guideline 474 (Genetic Toxicology: Micronucleus Test)

SENSITIZATION

Octamethylcyclotetrasiloxane; Result: negative. Method: OECD-Guideline 406 (Skin Sensitisation).

SKIN IRRITATION.

Octamethylcyclotetrasiloxane; Species: Rat; Result: No skin irritation. Method: OECD-Guideline 404 (Acute Dermal Irritation/Corrosion).

EYE IRRITATION

Octamethylcyclotetrasiloxane; Species: Rabbit ; Result: No eye irritation. Method: OECD-Guideline 405 (Acute Eye Irritation/Corrosion).

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MUTAGENICITY

No data available.

OTHER EFFECTS OF OVEREXPOSURE

Acetic acid released during curing.

12. ECOLOGICAL INFORMATION

ECOTOXICITY

Ecotoxicological data for this product is not available.

DISTRIBUTION

No data available.

CHEMICAL FATE

No data available.

ECOTOXICITY EFFECTS

Toxicity to fish

LC50

Species: *Oncorhynchus mykiss*

Result: > 0.022 mg/l

Exposure time: 96 h

Test substance: Octamethylcyclotetrasiloxane

Toxicity to other organisms

EC50

Species: *Daphnia magna*

Result: > 0.015 mg/l

Exposure time: 48 h

Test substance: Octamethylcyclotetrasiloxane

Elimination information (persistence and degradability)

Biodegradation

activated sludge (adaptation not specified)

Result: The product is not readily biodegradable.

Exposure time: 29 d

3.7 %

Test substance: Octamethylcyclotetrasiloxane

Method: OECD Test Guideline 310

BIOACCUMULATION

Species: *Pimephales promelas*

Exposure time: 28 d

Bioconcentration factor (BCF): 12.40

Elimination: Yes

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Test substance: Octamethylcyclotetrasiloxane
 May accumulate in soil and water systems.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHODS

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

14. TRANSPORT INFORMATION

Further Information:

This product is not regarded as dangerous goods according to the national and international regulations on the transport of dangerous goods.

15. REGULATORY INFORMATION

Inventories

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

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

US Regulatory Information

SARA (311,312) HAZARD CLASS
 Chronic Health Hazard

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CALIFORNIA PROPOSITION 65

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

Canadian Regulatory Information

WHMIS CLASSIFICATION

D2A - Very Toxic Material Causing Other Toxic Effects

D2B - Toxic Material Causing Other Toxic Effects

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).