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RTV116 FLOWABLE ACETOXY SEALANT (red)

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Manufacturer Name: Revised: Prepared by CHEMTREC		Momentive performance material 260 Hudson River Rd Waterford NY 12188 06/26/2012 Product Regulatory Compliance 1-800-424-9300			
MSDS Contact		1-888-443-9466			
Information		4information@momentive.com		om	
Chemical Family/Use:		Sealant			
Formula:		Mixture			
HMIS Health:	2	Flammability:	2	Reactivity:	0
NFPA Health:	1	Flammability:	2	Reactivity:	0

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

CAUTION! Combustible May cause skin, eye, and respiratory tract irritation.

Form: Paste

Form: Red

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 on contact with the uncured product.

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

Eye; Dermal

Other

Attention: Not for injection into humans.

3. COMPOSITION/INFORMATION ON INGREDIENTS

PRODUCT COMPOSITION	CAS-No.	<u>WGT. %</u>	
A. HAZARDOUS			
Methyltriacetoxysilane	4253-34-3	1 - 5 %	
di-tert-butoxydiacetoxysilane	13170-23-5	1 - 5 %	
Octamethylcyclotetrasiloxane	556-67-2	0.1 - 1 %	
B. NON-HAZARDOUS			
Silica	7631-86-9	10 - 30 %	
Polyalkylsiloxane	68037-74-1	1 - 5 %	
Red iron oxide	1332-37-2	1 - 5 %	
Siloxanes and Silicones, di-Me hydroxy terminated	70131-67-8	60 - 100 %	

4. FIRST AID MEASURES

INGESTION

If swallowed, do NOT induce vomiting. Give a glass of water.

SKIN

To clean from skin, remove completely with a dry cloth or paper towel, before washing with detergent and water. If skin irritation occurs: Get medical advice/attention.

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.



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NOTE TO PHYSICIAN

Treatment is symptomatic and supportive.

5. FIRE-FIGHTING MEASURES

FLASH POINT: METHOD IGNITION TEMPERATURE: FLAMMABLE LIMITS LEL: FLAMMABLE LIMITS UEL: ca. 72 °C; 162 °F Closed Cup No data available. Not applicable Not applicable

SENSITIVITY TO MECHANICAL IMPACT:

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.

No

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 skin and eyes. Use only in well-ventilated areas. Remove contact lenses before using sealant. Do not handle lenses until all sealant has been cleaned from the finger and hands. Product releases acetic acid during application and curing. Keep out of reach of children. See Section 8 of the MSDS for Personal Protective Equipment.

MOMENTIVE

MATERIAL SAFETY DATA SHEET

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STORAGE

Keep away from heat, sparks and open flame. Keep container tightly closed in a cool, well-ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS

Eye wash facilities and emergency shower must be available when handling this product.

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

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.	<u>Source</u>	Value
Octamethylcyclotetras iloxane	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): VAPOR PRESSURE (20 C) (MM HG): VAPOR DENSITY (AIR=1): Not applicable No data available. No data available.

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FREEZING POINT:
PHYSICAL STATE:
ODOR:
Color:
EVAPORATION RATE (BUTYL ACETATE=1):
SPECIFIC GRAVITY:
DENSITY:
ACID / ALKALINITY (MEQ/G):
pH:
SOLUBILITY IN WATER (20 C):
SOLUBILITY IN ORGANIC SOLVENT (STATE
SOLVENT):
VOLATILE ORGANIC CONTENT:
VOC EXCL. H2O & EXEMPTS (G/L):

Not applicable Paste Acetic acid. Red < 1 ca. 1.09 ca. 1.09 g/cm3 No data available. No data available. Insoluble Insoluble

2.9 %(m) 31.9 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. A MSDS for formaldehyde is available from Momentive.

INCOMPATIBLE MATERIALS

None known.

CONDITIONS TO AVOID

Keep away from heat, sparks and open flame.

11. TOXICOLOGICAL INFORMATION

ACUTE ORAL

Remarks: None known.

CARCINOGENICITY

The National Toxicology Program (NTP) classifies formaldehyde as "known to be a human carcinogen"

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with respect to nasopharyngeal cancer, sinonasal cancer and myeloid leukemia. The International Agency for Research on Cancer (IARC) classifies formaldehyde as "carcinogenic to humans". U.S. OSHA regulates formaldehyde as a potential human carcinogen. See the OSHA Formaldehyde Workplace Standard at 29 CFR 1920.1048 (the "OSHA Standard"). Safe handling and use instructions are provided in this MSDS and in the OSHA Standard. OSHA has identified 0.5 ppm, calculated as an eight-hour time-weighted average ("TWA") concentration, as the "Action Level". Please review and understand the guidance contained in this MSDS, and refer to the OSHA Standard for regulatory requirements that might be applicable to your operation and use. Many studies and other evaluations have been performed concerning formaldehyde's potential to cause cancer. To review some of these studies and for further information go to www.osha.gov; http://monographs.iarc.fr; http://ntp-server.niehs.nih.gov; http://epa.gov; http://www.nap.edu and other authoritative websites then

ACUTE DERMAL

Remarks: None known.

search on formaldehyde.

ACUTE INHALATION

Remarks: No data available.

OTHER

Octamethylcyclotetrasiloxane

Ingestion: Rodents given large doses via oral gavage of octamethylcyclotetrasiloxane (1600 mg/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, liverweights returned to normal. Microscopic examination of the liver cells did not show any evidence of pathology. Inhalationstudies utililizing laboratory rabbits and guinea pigs showed no effects on liver weights. Inhalation exposures typical ofindustrial 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, gestationand lactation) with octamethylcyclotetrasiloxane (D4). Rats were exposed to 70 and 700 ppm. In the 700 ppm group, there was 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.

Interim results from a two generation reproductive study in rats exposed to 500 and 700 ppm D4 (whole body inhalation, 70 daysprior to mating, through mating, gestation and lactation) resulted in a statistically significant decrease in live meanlitter size as well as extended periods of off-spring delivery (dystocia). These results were not observed at the 70 and 300ppm dosing levels.

Preliminary results from an ongoing 24-month combined chronic/oncogenicity study in rats exposed to 10, 30, 150, or700 ppm D4 showed test-article related effects in the kidney (male and female) and uterus of rats exposed for 12 to 24 months. These effects include increased kidney weight and severity of chronic nephropathy, increased uterine weight, increased incidence of endometrial cell hyperplasia, and



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an increased incidence of endometrial adenomas. All of these effects are limited to the 700 ppm exposure group.

These results have been shown to be rat-specific. Further studies are ongoing.

In developmental toxicity studies, rats and rabbits were exposed to octamethylcyclotetrasiloxane at concentrations up to 700 ppm and 500 ppm respectively. No teratogenic effects (birth defects) were observed in either study.

SENSITIZATION No data available.

SKIN IRRITATION. No data available.

EYE IRRITATION No data available.

MUTAGENICITY

No data available.

OTHER EFFECTS OF OVEREXPOSURE

Acetic acid released during curing.

12. ECOLOGICAL INFORMATION

ECOTOXICITY

No data available.

DISTRIBUTION No data available. CHEMICAL FATE No data available.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHODS

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

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14. TRANSPORT INFORMATION

DOT SHIPPING NAME:	Combustible liquid, n.o.s.(METHYLTRIACETOXYSILANE)
DOT HAZARD CLASS:	CBL
DOT LABEL (S):	NON
UN/NA NUMBER:	NA 1993
PACKING GROUP:	III
Further Information:	This product is Combustible as defined by the US Department of Transportation (DOT). It is regulated for transport in the US in container > 119 gallons. The product is not regulated for transport by the IATA, ADR/RID, ADNR or the IMDG regulations.

15. REGULATORY INFORMATION

Inventories

Australia Inventory of Chemical Substances (AICS)	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	y (positive listing)		
Chemical Substances	/		
Korea Existing Chemicals	y (positive listing)		
Inventory (KECI)			
Canada DSL Inventory	y (positive listing)		
Canada NDSL Inventory	n (Negative listing)		
Philippines Inventory of Chemicals	y (positive listing)		
and Chemical Substances			
(PICCS)			
TSCA list	y (positive listing)	On TSCA Inventory	
For inventories that are marked as quantity restricted or special cases, please contact Momentive.			

US Regulatory Information

SARA (311,312) HAZARD CLASS

Acute Health Hazard; Fire Hazard

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

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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).