

RTV 1473

SAFETY DATA SHEET

1. Identification of the substance or mixture and of the supplier

GHS Product identifier: RTV 1473

Recommended use of the chemical and restrictions on use

Recommended use: Silicone Elastomer

Recommended restrictions: For industrial use only.

Supplier's details

Manufacturer Momenive Performance Materials GmbH
Chempark Leverkusen Gebaeude V7
DE - 51368 Leverkusen
Germany

Distributor Information
:
DC Products Pty Limited
Unit 117/45 Gilby Road
Mount Waverley 3149
Australia

Contact person: viren.kumar@dcproducts.com.au

Telephone: + 61 3 95588898

Emergency telephone +61 428519118

2. Hazard(s) identification

GHS classification of substance or mixture, and national or regional information:
Not classified

GHS label elements

Hazard symbol(s): No symbol

Signal Word: none

Hazard Statement(s): not applicable

Precautionary
statement(s):

Prevention: not applicable

Response: not applicable

Storage: not applicable

Disposal: not applicable

Other hazards which do not
result in GHS classification:

None.

RTV 1473

3. Composition/information on ingredients

Chemical nature: Silicone sealant

Mixtures

Chemical Identity	CAS number	Concentration*
SILANE, DICHLORODIMETHYL-, REAKTION PRODUCTS WITH SILICA, Silane, dichlorodimethyl-, reaction products with silica	68611-44-9	10 - 30%
Octamethylcyclotetrasiloxane	556-67-2	1 - 10%
CALCIUM CARBONATE	1317-65-3	0,1 - 1%

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

(1) The respirable particle(s) listed above are inextricably bound within the polymer matrix, and therefore does not present an inhalation hazard during normal use of this product. Tooling or machining of the cured product (sanding, cutting, milling) may release hazardous, respirable substances.

4. First-aid measures

Description of necessary first-aid measures

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.

Skin Contact: Wash with soap and water.

Eye contact: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

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.

Symptoms caused by exposure

Symptoms: No data available.

Hazards: No data available.

Medical attention and special treatment

RTV 1473

Treatment: Not relevant.

5. Fire-fighting measures

Means of fire extinguishing

Suitable extinguishing media: All standard extinguishing agents are suitable.

Unsuitable extinguishing media: Do not use water jet.

Specific hazards arising from the chemical: No data available.

Special protective equipment and precautions for firefighters

Special fire fighting procedures: No data available.

Special protective equipment for fire-fighters: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Hazchem Code: No data available.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: 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.

Environmental Precautions: Do not allow runoff to sewer, waterway or ground.

7. Handling and storage

Precautions for safe handling: Ensure adequate ventilation, especially in confined areas. Avoid contact with eyes, skin, and clothing. Acetic acid is formed during processing. Wear appropriate personal protective equipment.

Conditions for safe storage, including any incompatibilities: Keep container tightly closed in a cool, well-ventilated place.

RTV 1473

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	Type	Exposure Limit Values	Source
CALCIUM CARBONATE	TWA	10 mg/m3	Australia. OELs. (Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment) (08 2005)

This product contains one or more substances with an occupational exposure limit. However, the respirable particle(s) of this/these substance(s) are inextricably bound within the polymer matrix. Therefore, we do not expect an exposure to this/these substance(s) during normal use of this product. Tooling or machining of the cured product (sanding, cutting, milling) may release hazardous, respirable substances.

Biological Limit Values

None of the components have assigned exposure limits.

Appropriate Engineering Controls:

No data available.

Individual protection measures, such as personal protective equipment

General information:

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

Eye/face protection:

Safety glasses with side shields

Skin Protection

Hand Protection:

Chemical resistant gloves Butyl rubber gloves are recommended.

Other:

Wear suitable protective clothing and eye/face protection.

Respiratory Protection:

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Hygiene measures:

Avoid contact with eyes, skin, and clothing. Ensure adequate ventilation, especially in confined areas. Observe good industrial hygiene practices. Wash hands before breaks and immediately after handling the product. When using do not eat, drink or smoke.

9. Physical and chemical properties

Appearance

Physical state:

solid

Form:

Paste

Color:

Black

RTV 1473

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:	not applicable
Flash Point:	> 94 °C (estimated) Product does not flash below 93.3C (200F) during test; no actual flash point >93.3 C was determined.
Evaporation rate:	No data available.
Flammability (solid, gas):	No data available.
Upper/lower limit on flammability or explosive limits	
Flammability limit - upper (%):	No data available.
Flammability limit - lower (%):	No data available.
Explosive limit - upper (%):	No data available.
Explosive limit - lower (%):	No data available.
Vapor pressure:	not applicable
Vapor density:	not applicable
Density:	ca. 1,06 g/cm ³
Relative density:	ca. 1,06
Solubility(ies)	
Solubility in water:	Insoluble
Solubility (other):	Toluene
Partition coefficient (n-octanol/water) Log Pow:	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
SADT:	No data available.
Viscosity, dynamic:	No data available.
Viscosity, kinematic:	No data available.
Specific gravity:	No data available.

10. Stability and reactivity

Reactivity:	No data available.
Chemical Stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	Hazardous polymerisation does not occur.
Conditions to avoid:	Keep away from moisture.
Incompatible Materials:	None known.

RTV 1473

Hazardous Decomposition Products: Carbon dioxideSilicon 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.

11. Toxicological information

Information on likely routes of exposure

- Inhalation:** No data available.
- Skin Contact:** No data available.
- Eye contact:** No data available.
- Ingestion:** No data available.

Symptoms related to the physical, chemical and toxicological characteristics

- Inhalation:** No data available.
- Skin Contact:** No data available.
- Eye contact:** No data available.
- Ingestion:** No data available.

Information on toxicological effects

Acute toxicity

- Oral**
- Product:** ATEmix 9.012,21 mg/kg
- Specified substance(s):**
- Octamethylcyclotetrasiloxane LD 50 (Rat): 4.800 mg/kg (OECD-Guideline 401 (Acute Oral Toxicity)) Not classified

- Dermal**
- Product:** Not classified for acute toxicity based on available data.

- Specified substance(s):**
- Octamethylcyclotetra siloxane LD 50 (Rat): > 2.400 mg/kg (OECD Test Guideline 402) Not classified

Inhalation

RTV 1473

Product: Not classified for acute toxicity based on available data.

Specified substance(s):
Octamethylcyclotetrasiloxane LC50 (Rat, 4 h): 36 mg/l (OECD Test Guideline 403)

Repeated dose toxicity

Product: No data available.

Skin irritation and corrosion

Product: No data available.

Specified substance(s):
Octamethylcyclotetrasiloxane OECD-Guideline 404 (Acute Dermal Irritation/Corrosion) (Rat): No skin irritation

Serious Eye Damage/Eye Irritation

Product: No data available.

Respiratory or Skin Sensitization

Product: No data available.

Specified substance(s):
Octamethylcyclotetrasiloxane , OECD-Guideline 406 (Skin Sensitisation) (Guinea Pig)Not sensitizing

Carcinogenicity

Product: No data available.

Notifiable Carcinogenic Substances

No carcinogenic components identified

Prohibited Carcinogenic Substances

No carcinogenic components identified

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

ACGIH Carcinogen List:

No carcinogenic components identified

Germ Cell Mutagenicity

In vitro

Product: No data available.

Specified substance(s):
Octamethylcyclotetrasiloxane Ames-Test (OECD-Guideline 471 (Genetic Toxicology: Salmonella typhimurium, Reverse Mutation Assay)): negative (not mutagenic)
Mouse Lymphoma Assay (OECD Guidline 476): negative (not mutagenic)

RTV 1473

In vivo

Product: No data available.

Specified substance(s):

Octamethylcyclotetrasiloxane Chromosomal aberration (OECD-Guideline 474 (Genetic Toxicology: Micronucleus Test)) Inhalation (Rat, male and female): negative

Reproductive toxicity

Product: No data available.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Aspiration Hazard

Product: No data available.

Other effects: No data available.

Specified substance(s):

RTV 1473

Octamethylcyclotetrasiloxane 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.

12. Ecological information

Ecotoxicity

Acute hazards to the aquatic environment

Fish

Product: No data available.

Aquatic Invertebrates

Product: No data available.

Chronic hazards to the aquatic environment

Fish

Product: No data available.

RTV 1473

Aquatic Invertebrates

Product: No data available.

Toxicity to Aquatic Plants

Product: No data available.

Persistence and Degradability

Biodegradation

Product: No data available.

BOD/COD Ratio

Product: No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: No data available.

Partition Coefficient n-octanol / water (log Kow)

Product: No data available.

Mobility

Mobility in soil: No data available.

Known or predicted distribution to environmental compartments

SILANE, No data available.

DICHLORODIMETHYL-,
REAKTION PRODUCTS
WITH SILICA, Silane,
dichlorodimethyl-, reaction
products with silica

Octamethylcyclotetrasiloxa
ne No data available.

CALCIUM CARBONATE No data available.

Other adverse effects: No data available.

13. Disposal considerations

Disposal methods

Disposal instructions: Can be incinerated when in compliance with local regulations.

Contaminated Packaging: Dispose of as unused product.

14. Transport information

National Regulations

RTV 1473

ADG

Not regulated.

International regulations

IATA

Not regulated.

IMDG

Not regulated.

Transport in bulk according to Annex II of MARPOL and the IBC Code

not applicable

Special precautions for user:

This product is not regarded as dangerous goods according to the national and international regulations on the transport of dangerous goods. Keep away from foodstuffs and animal feed. keep away from odour sensitive materials Protect from moisture.

15. Regulatory information

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Poisons Schedule Number

AU SUSMP 2	Poisons schedule number not allocated
AU SUSMP 3	Poisons schedule number not allocated
AU SUSMP 4	Poisons schedule number not allocated
AU SUSMP 5	Poisons schedule number not allocated
AU SUSMP 6	Poisons schedule number not allocated
AU SUSMP 7	Poisons schedule number not allocated
AU SUSMP 8	Poisons schedule number not allocated
AU SUSMP 9	Poisons schedule number not allocated
AU SUSMP A	Poisons schedule number not allocated

RTV 1473

AU SUSMP B	Poisons schedule number not allocated
AU SUSMP C	Poisons schedule number not allocated
AU SUSMP D	Poisons schedule number not allocated
AU SUSMP E	Poisons schedule number not allocated
AU SUSMP F	Poisons schedule number not allocated
AU SUSMP G	Poisons schedule number not allocated
AU SUSMP H	Poisons schedule number not allocated
AU SUSMP I	Poisons schedule number not allocated
AU SUSMP J	Poisons schedule number not allocated
AU SUSMP K	Poisons schedule number not allocated
AUSUSMPDS	Poisons schedule number not allocated

Notifiable Carcinogenic Substances

Not Regulated

Prohibited Carcinogenic Substances

Not Regulated

National Pollutant Inventory (NPI) substance reporting list

Not Regulated

Prohibited Substances (National Model Regulations for the Control of Workplace Hazardous Substances, Schedule 2 NOHSC:1005 (1994))

Not Regulated

Restricted Importation of Organochlorine Chemicals (Customs(Prohibited Imports) Regulations 1956, Schedule 9)

Not Regulated

Importation of Ozone Depleting Substances (Customs (Prohibited Imports) Regulations 1956, Schedule 10)

Not Regulated

RTV 1473

High Volume Industrial Chemicals (HVIC)
 Not Regulated

International regulations

Montreal protocol
 not applicable

Stockholm convention
 not applicable

Rotterdam convention
 not applicable

Kyoto protocol
 not applicable

Inventory Status:

Australia AICS:	y (positive listing)	Remarks: None.
Canada DSL Inventory List:	y (positive listing)	Remarks: None.
EU EINECS List:	y (positive listing)	Remarks: None.
Japan (ENCS) List:	y (positive listing)	Remarks: None.
China Inventory of Existing Chemical Substances:	y (positive listing)	Remarks: None.
Korea Existing Chemicals Inv. (KECI):	y (positive listing)	Remarks: None.
Canada NDSL Inventory:	n (Negative listing)	Remarks: None.
Philippines PICCS:	y (positive listing)	Remarks: None.
US TSCA Inventory:	y (positive listing)	Remarks: None.
New Zealand Inventory of Chemicals:	y (positive listing)	Remarks: None.
Taiwan. Taiwan inventory (CSNN):	y (positive listing)	Remarks: None.

16. Other Information

Issue Date:	22.05.2017
Revision Date:	No data available.
Version #:	1.0
Further Information:	No data available.
Key abbreviations or acronyms used:	No data available.
References:	No data available.

RTV 1473

Disclaimer:

Notice to reader

Unless otherwise specified in section 1.2, Momentive Products are intended for industrial application only.

They are not intended for specific medical applications, neither for long-lasting (> 30 days) implantation into the human body, injected or directly ingested, nor for the manufacture of multiple usable contraceptives.

Further Information

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 given is designed only as a guidance for safehandling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

®,*, and TM indicate trademarks owned by or licensed to Momentive.