

Revision Date: 04/28/2017

RTF 5308

SAFETY DATA SHEET

1. Identification

Product identifier: RTF 5308

Other means of identification

Synonyms: ALKOXY CURING SEALANT

Recommended use and restriction on use

Recommended use: Silicone Elastomer

Restrictions on use: Not known.

Manufacturer/Importer/Distr :

ibutor Information

Momentive Performance Materials LLC

260 Hudson River Road Waterford NY 12188

Contact person : commercial.services@momentive.com

Telephone : General information

+1-800-295-2392

Emergency telephone

number

Supplier : CHEMTREC

1-800-424-9300

2. Hazard(s) identification

Hazard Classification

Health Hazards

Skin Corrosion/Irritation Category 2
Serious Eye Damage/Eye Irritation Category 2A
Skin sensitizer Category 1
Toxic to reproduction Category 1B

Label Elements

Hazard Symbol:

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Signal Word: Danger

Hazard Statement: H315; Causes skin irritation.

H317; May cause an allergic skin reaction. H319; Causes serious eye irritation.

H360; May damage fertility or the unborn child.

Precautionary Statements

Prevention: Wash thoroughly after handling. Wear protective gloves/protective

clothing/eye protection/face protection. Avoid breathing

dust/fume/gas/mist/vapors/spray. Contaminated work clothing must not be allowed out of the workplace. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use

personal protective equipment as required.

Response: If in eyes: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF ON SKIN: Wash with plenty of water. If skin

irritation or rash occurs: Get medical advice/attention. If exposed or

concerned: Get medical advice/attention. Specific treatment (see this label).

Wash contaminated clothing before reuse.

Storage: Store locked up.

Disposal: Dispose of contents/container to an appropriate treatment and disposal

facility in accordance with applicable laws and regulations, and product

characteristics at time of disposal.

Other hazards which do not result in GHS classification:

None.

3. Composition/information on ingredients

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Mixtures

Chemical Identity	CAS number	Content in percent (%)*	Notes
METHYLPOLYSILOXANE	68037-58-1	>=60 - <=80%	No data available.
Polydimethylsiloxane	63148-62-9	>=10 - <=20%	No data available.
Treated Fumed Silica	68583-49-3	>=10 - <=20%	No data available.
Siloxanes and Silicones, di- Me, polymers with Me sils esquioxanes, hydroxy- terminated	68554-67-6	>=5 - <=10%	No data available.
Octamethylcyclotetrasiloxane	556-67-2	1 - <3%	No data available.
Hexamethyldisilazane	999-97-3	1 - <3%	No data available.
Aminoethyl aminopropyl trimethoxy silane	1760-24-3	1 - <3%	No data available.
Dibutyltin Diacetate(34% as Tin)	1067-33-0	0.1 - <0.3%	# This substance has workplace exposure limit(s).

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

4. First-aid measures

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

Skin Contact: 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.

Eye contact: In case of contact with eyes, rinse immediately with plenty of water and

seek medical advice.

Most important symptoms/effects, acute and delayed

Symptoms: Treatment is symptomatic and supportive.

Hazards: No data available.

Indication of immediate medical attention and special treatment needed

Treatment: No data available.

5. Fire-fighting measures

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General Fire Hazards: No data available.

Suitable (and unsuitable) extinguishing media

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:

Firefighters must wear NIOSH/MSHA approved positive pressure selfcontained breathing apparatus with full face mask and full protective

clothing.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Product releases ammonia during application and curing. Product releases methanol during application and curing. Avoid contact with skin and eyes. Keep container closed. Keep out of reach of children.

Methods and material for containment and cleaning up:

Wipe, scrape or soak up in an inert material and put in a container for disposal. Wear proper protective equipment as specified in the protective

equipment section.

7. Handling and storage

Precautions for safe handling: Sensitivity to static discharge is not expected.

Conditions for safe storage, including any

incompatibilities:

Keep away from heat, sparks and open flame. Keep container tightly

closed.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

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Chemical Identity	Туре	Exposure Limit Values	Source
Dibutyltin Diacetate(34% as Tin) - as Sn	STEL	0.2 mg/m3	US. ACGIH Threshold Limit Values (03 2015)
,	TWA	0.1 mg/m3	US. ACGIH Threshold Limit Values (03 2015)
	REL	0.1 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	PEL	0.1 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	0.1 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)

Appropriate Engineering Controls

Eye wash facilities and emergency shower must be available when handling this product. Ventilation and other forms of engineering controls are preferred for controlling exposures. Respiratory protection may be needed for non-routine or emergency situations.

Individual protection measures, such as personal protective equipment

General information: No data available.

Eye/face protection: Safety glasses with side shields

Skin Protection

Hand Protection: Rubber gloves are recommended.

Other: Wear suitable protective clothing and eye/face protection.

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).

Hygiene measures: Observe good industrial hygiene practices.

9. Physical and chemical properties

Appearance

Physical state: solid
Form: solid
Color: Colorless
Odor: Ammonia.

Odor threshold:

pH: Not determined.Melting point/freezing point: No data available.

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Initial boiling point and boiling range:No data available.

Flash Point: > 100 °C

Evaporation rate:No data available.
Flammability (solid, gas):
No data available.

Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%):

Flammability limit - lower (%):

Explosive limit - upper (%):

No data available.

Vapor pressure: No data available.

Vapor density:No data available.Density:ca. 1.048 g/cm3

Relative density: ca. 1.0

Solubility(ies)

Solubility in water: Insoluble

Solubility (other): No data available.

Partition coefficient (n-octanol/water) Log

Not determined.

Pow:

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.

VOC: 33 g/l

10. Stability and reactivity

Reactivity: No dangerous reaction if used as recommended.

Chemical Stability: Material is stable under normal conditions.

Possibility of hazardous

reactions:

Under normal conditions of storage and use, hazardous polymerization will

not occur.

Conditions to avoid: None known.

Incompatible Materials: None known.

Hazardous Decomposition

Products:

Carbon dioxide Silicon dioxide. Formaldehyde. Measurements at temperatures above 150°C in presence of air (oxygen) have shown that

small amounts of formaldehyde are formed due to oxidative degradation.

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11. Toxicological information

Information on likely routes of exposure

Ingestion: No data available.

Inhalation: No data available.

Skin Contact: No data available.

Eye contact: No data available.

Symptoms related to the physical, chemical and toxicological characteristics

Ingestion: No data available.

Inhalation: No data available.

Skin Contact: No data available.

Eye contact: No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product: ATEmix: 41,028.37 mg/kg

Specified substance(s):

Polydimethylsiloxane LD 50 (Rat, No data available.): > 5,000 mg/kg

Octamethylcyclotetrasilox LD 50 (Rat): 4,800 mg/kg

ane LD 50 (Mouse): 1,700 mg/kg

Hexamethyldisilazane LD 50 (Rat): 870 mg/kg

Aminoethyl aminopropyl

trimethoxy silane

LD 50 (Rat): 2,995 mg/kg

Dermal

Product: ATEmix: 15,151.52 mg/kg

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Specified substance(s):

Octamethylcyclotetrasilox LD 50 (Rat): 2,400 mg/kg

ane

Aminoethyl aminopropyl

trimethoxy silane

LD 50 (Rabbit): > 2,000 mg/kg

Dibutyltin Diacetate(34%

as Tin)

LD 50 (Rabbit): 2,318 mg/kg

Inhalation

Product: ATEmix: 601.09 mg/l

ATEmix: 150 mg/l

Specified substance(s):

Octamethylcyclotetrasilox

LC50 (Rat): 36 mg/l

ane

Repeated dose toxicity

Product: No data available.

Specified substance(s):

Aminoethyl aminopropyl

trimethoxy silane

NOAEL (Rat, Oral, 28 d): >= 500 mg/kg

Skin Corrosion/Irritation

Product: No data available.

Serious Eye Damage/Eye Irritation

Product: No data available.

Respiratory or Skin Sensitization

Product: No data available.

Carcinogenicity

Product: No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogenic components identified

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No carcinogenic components identified

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Germ Cell Mutagenicity

In vitro

Product: No data available.

Specified substance(s):

Octamethylcyclotetrasilox Ames-Test (OECD-Guideline 471 (Genetic Toxicology: Salmonella

ane typhimurium, Reverse Mutation Assay)): negative (not mutagenic)

Mouse Lymphoma Assay (OECD Guidline 476): negative (not mutagenic)

In vivo

Product: No data available.

Specified substance(s):

Octamethylcyclotetrasilox Chromosomal aberration (OECD-Guideline 474 (Genetic Toxicology:

Micronucleus Test)) Inhalation (Rat, male and female): negative

Reproductive toxicity

ane

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: Ammonia released during curing. No data available.

Specified substance(s):

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Octamethylcyclotetrasil oxane

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 welldocumented 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.

Specified substance(s):

Aminoethyl aminopropyl LC50 (Lepom

trimethoxy silane

LC50 (Lepomis macrochirus): > 100 mg/l

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Aquatic Invertebrates

Product: No data available.

Specified substance(s):

Aminoethyl aminopropyl trimethoxy silane

EC50 (Daphnia magna, 48 h): 87.4 mg/l

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Specified substance(s):

Polydimethylsiloxane LC0 (Leuciscus idus, 4 d): 200 mg/l

Aquatic Invertebrates

Product: No data available.

Toxicity to Aquatic Plants

Product: No data available.

Specified substance(s):

Aminoethyl aminopropyl trimethoxy silane EC50 (Algae (Pseudokirchneriella subcapitata), 96 h): 8.8 mg/l NOEC (Algae (Pseudokirchneriella subcapitata)): 3.1 mg/l

Persistence and Degradability

Biodegradation

Product: No data available.

Specified substance(s):

Octamethylcyclotetrasilox 3.7 % (29 d, 310 Ready Biodegradability - CO₂ in Sealed Vessels

(Headspace Test)) Not readily biodegradable.

BOD/COD Ratio

ane

Product: No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: No data available.

Specified substance(s):

Octamethylcyclotetrasilox Fathead Minnow, Bioconcentration Factor (BCF): 12.40

ane

Partition Coefficient n-octanol / water (log Kow)

Product: Log Kow: Not determined.

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Mobility in soil: No data available.

Known or predicted distribution to environmental compartments

METHYLPOLYSILOXANE
Polydimethylsiloxane
Treated Fumed Silica
Siloxanes and Silicones, diNo data available.
No data available.
No data available.

Me, polymers with Me silsesquioxanes, hydroxy-

terminated

Octamethylcyclotetrasiloxa

ne

Hexamethyldisilazane Aminoethyl aminopropyl

trimethoxy silane

Dibutyltin Diacetate(34% as

Tin)

No data available.

No data available. No data available.

No data available.

Other adverse effects: No data available.

13. Disposal considerations

Disposal instructions: Disposal should be made in accordance with federal, state and local

regulations.

Contaminated Packaging: No data available.

14. Transport information

DOT

Not regulated.

IMDG

Not regulated.

IATA

Not regulated.

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.

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15. Regulatory information

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

<u>Chemical Identity</u> <u>Reportable quantity</u>

Octamethylcyclotetrasilox De minimis concentration: TSCA Section: 4: 1.0%

One-Time Export Notification only.

CERCLA Hazardous Substance List (40 CFR 302.4):

None present or none present in regulated quantities.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate (Acute) Health Hazards Delayed (Chronic) Health Hazard

SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

SARA 304 Emergency Release Notification

None present or none present in regulated quantities.

SARA 311/312 Hazardous Chemical

Octamethylcyclotetrasiloxa 10000 lbs

ne

Hexamethyldisilazane 10000 lbs Aminoethyl aminopropyl 10000 lbs

trimethoxy silane

Dibutyltin Diacetate(34% 10000 lbs

as Tin)

SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65

No ingredient regulated by CA Prop 65 present.

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US. New Jersey Worker and Community Right-to-Know Act

Chemical Identity

METHYLPOLYSILOXANE

Polydimethylsiloxane

Treated Fumed Silica

Siloxanes and Silicones, di-Me, polymers with Me silsesquioxanes,

hydroxy-terminated

Octamethylcyclotetrasiloxane

Hexamethyldisilazane

Aminoethyl aminopropyl trimethoxy silane

Dibutyltin Diacetate(34% as Tin)

US. Massachusetts RTK - Substance List

No ingredient regulated by MA Right-to-Know Law present.

US. Pennsylvania RTK - Hazardous Substances

No ingredient regulated by PA Right-to-Know Law present.

US. Rhode Island RTK

No ingredient regulated by RI Right-to-Know Law present.

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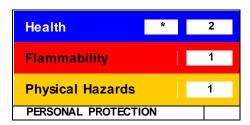
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Inventory Status:

Australia AICS:	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	y (positive listing)	Remarks: None.
Chemical Substances:		
Korea Existing Chemicals Inv.	y (positive listing)	Remarks: None.
(KECI):		
Canada DSL Inventory List:	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: On TSCA Inventory
Taiwan. Taiwan inventory	y (positive listing)	Remarks: None.
(CSNN):		

16.Other information, including date of preparation or last revision

HMIS Hazard ID



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible; *Chronic health effect

Issue Date: 04/28/2017

Revision Date: No data available.

Version #: 2.1

Further Information: No data available.

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Disclaimer:

Notice to reader

Unless otherwise specified in section 1, Momentive products are intended for use in the manufacture and/or formulation of products and are not intended for direct consumer use. These products are not intended for long-lasting (> 30 days) implantation, injection or direct ingestion into the human body, nor for use in the manufacture of multiple use contraceptives. Keep out of the reach of children.

Further Information

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