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#### RTV88

# SAFETY DATA SHEET

## 1. Identification

Product identifier: RTV88

Other means of identification

Synonyms: Silicone Rubber Compound

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** 

Not classified

**Label Elements** 

Hazard Symbol: No symbol

Signal Word: No signal word.

Hazard Statement: Not applicable

Precautionary Statements

Not applicable

Other hazards which do not result in GHS classification:

None.

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# 3. Composition/information on ingredients

#### **Mixtures**

Chemical Identity	CAS number	Content in percent (%)*	Notes
Red iron oxide	1309-37-1	20 - <50%	# This substance has workplace exposure limit(s).
Kieselguhr, soda ash flux- calcined	68855-54-9	10 - <20%	# This substance has workplace exposure limit(s).
Silicic acid, ethyl ester	11099-06-2	1 - <5%	# This substance has workplace exposure limit(s).
(1) QUARTZ	14808-60-7	0.1 - <1%	# This substance has workplace exposure limit(s).

<sup>\*</sup> 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

**Ingestion:** DO NOT induce vomiting. Get medical attention immediately. Do not give

victim anything to drink if he is unconscious. If vomiting occurs, keep head

low so that stomach content doesn't get into the lungs.

**Inhalation:** Move into fresh air and keep at rest. Get medical attention if symptoms

occur.

Skin Contact: Remove contaminated clothing and shoes. Wash skin thoroughly with soap

and water. Get medical attention if symptoms occur.

Eye contact: Get medical attention if symptoms occur. If in eyes, hold eyes open, flood

with water for at least 15 minutes and see a doctor.

Most important symptoms/effects, acute and delayed

**Symptoms:** None known.

Hazards: No data available.

Indication of immediate medical attention and special treatment needed

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**Treatment:** Treatment is symptomatic and supportive.

## 5. Fire-fighting measures

General Fire Hazards: Self-contained breathing apparatus and full protective clothing must be

worn in case of fire. Use standard firefighting procedures and consider the hazards of other involved materials. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.

## Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media:

All standard extinguishing agents are suitable.

Unsuitable extinguishing

media:

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical:

In case of fire, carbon monoxide and carbon dioxide may be formed. Oxides of silicon. Acute overexposure to the products of combustion may result in irritation of the respiratory tract. Measurements at temperatures above 150°C in presence of air (oxygen) have shown that small amounts of formaldehyde are formed due to oxidative degradation.

## Special protective equipment and precautions for firefighters

Special fire fighting

procedures:

Use water spray to keep fire-exposed containers cool.

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: Caution: Contaminated surfaces may be slippery. Avoid contact with skin and eyes. See Section 8 of the SDS for Personal Protective Equipment. 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. Wash walking surfaces with detergent and water to reduce slipping hazard. Wear proper protective equipment as specified in the protective equipment section.

**Environmental Precautions:** 

Do not allow runoff to sewer, waterway or ground.

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# 7. Handling and storage

**Precautions for safe handling:** Sensitivity to static discharge is not expected. Do not taste or swallow. Do

not get in eyes, on skin, on clothing. Use personal protective equipment as  $\ensuremath{\mathsf{S}}$ 

required. Wash hands after handling.

Conditions for safe storage, including any incompatibilities:

Keep container closed. Keep away from sources of ignition - No smoking. Use original container or packaging of similar material of construction

# 8. Exposure controls/personal protection

## **Control Parameters**

**Occupational Exposure Limits** 

Chemical Identity	Туре	Exposure Limit Values	Source
Red iron oxide - Respirable fraction.	TWA	5 mg/m3	US. ACGIH Threshold Limit Values (03 2015)
Red iron oxide - Dust and fume as Fe	REL	5 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
Red iron oxide - Fume.	PEL	10 mg/m3	US. OSHÀ Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	10 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA	10 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	TWA PEL	5 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (01 2015)
Red iron oxide - Total dust.	TWA	50 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)
Red iron oxide - Respirable fraction.	TWA	5 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)
	TWA	15 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)
Red iron oxide - Total dust.	TWA	15 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)
Red iron oxide	IDLH	2,500 mg/m3	US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values (10 2017)
Kieselguhr, soda ash flux- calcined	REL	6 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
Kieselguhr, soda ash flux- calcined - Respirable dust.	OSHA_AC T	0.025 mg/m3	US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) (03 2016)
	TWA	0.05 mg/m3	US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) (03 2016)
Kieselguhr, soda ash flux- calcined - Particulate.	ST ESL	27 μg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	AN ESL	2 μg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
Kieselguhr, soda ash flux- calcined	TWA	20 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
	TWA	0.8 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000)

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			(2000)
	IDLH	3,000 mg/m3	US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values (10 2017)
(1) QUARTZ - Respirable fraction.	TWA	0.025 mg/m3	US. ACGIH Threshold Limit Values (03 2015)
(1) QUARTZ - Respirable dust.	REL	0.05 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
(1) QUARTZ - Respirable dust.	TWA	0.05 mg/m3	US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) (03 2016)
	OSHA_AC T	0.025 mg/m3	US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) (03 2016)
(1) QUARTZ - Respirable dust.	PEL	0.05 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (03 2016)
	TWA	0.1 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA	0.1 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
(1) QUARTZ - Particulate.	ST ESL	14 μg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
	AN ESL	0.27 μg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
(1) QUARTZ - Respirable dust.	TWA PEL	0.05 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (10 2016)
(1) QUARTZ - Respirable.	TWA	2.4 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
	TWA	0.1 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
(1) QUARTZ	IDLH	50 mg/m3	US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values (10 2017)

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.

# 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: General (mechanical) room ventilation is expected to be satisfactory if

handled at low temperatures or in covered equipment.

Eye/face protection: Safety glasses with side shields

**Skin Protection** 

Hand Protection: Chemical resistant gloves

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

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Respiratory Protection: Use only in well-ventilated areas. 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. Wash hands after handling.

When using do not eat, drink or smoke. Provide adequate ventilation.

# 9. Physical and chemical properties

**Appearance** 

Physical state: liquid
Form: liquid
Color: Red
Odor: Faint

Odor threshold:No data available.pH:No data available.Melting point/freezing point:No data available.

Initial boiling point and boiling range: > 260 °C

Flash Point: > 100 °C (Closed Cup)
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 (%):

Explosive limit - lower (%):

No data available.

No data available.

No data available.

No data available.

Vapor pressure: No data available.

Vapor density:No data available.Density:ca. 1.5 g/cm3Relative density:ca. 1.5

Solubility(ies)

Solubility in water: Insoluble

Solubility (other): No data available.

Partition coefficient (n-octanol/water) Log No data available.

Pow:

Auto-ignition temperature: No data available.

**Decomposition temperature:** To avoid thermal decomposition, do not overheat.

SADT: No data available.

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Viscosity, dynamic:No data available.Viscosity, kinematic:No data available.

**VOC:** 20 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:

Hazardous polymerisation does not occur.

Conditions to avoid: None known.

Incompatible Materials: None known.

**Hazardous Decomposition** 

**Products:** 

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Measurements at temperatures above 150°C in presence of air (oxygen) have shown that small amounts of

formaldehyde are formed due to oxidative degradation.

# 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: 43,478.26 mg/kg

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**Dermal** 

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

Inhalation

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

Repeated dose toxicity

**Product:** No data available.

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:** 

Kieselguhr, soda Known To Be Human Carcinogen.

ash flux-calcined

(1) QUARTZ Known To Be Human Carcinogen.

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

No carcinogenic components identified

**Germ Cell Mutagenicity** 

In vitro

**Product:** No data available.

In vivo

**Product:** No data available.

Reproductive toxicity

**Product:** No data available.

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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.

# 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.

**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**

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**Bioconcentration Factor (BCF)** 

**Product:** No data available.

Partition Coefficient n-octanol / water (log Kow)
Product:
No data available.

Mobility in soil: No data available.

Known or predicted distribution to environmental compartments

Red iron oxide

No data available.

Kieselguhr, soda ash flux
No data available.

calcined

Silicic acid, ethyl ester No data available.
(1) QUARTZ No data available.

Other adverse effects: No data available.

## 13. Disposal considerations

**General information:** See Section 8 for information on appropriate personal protective

equipment. The generation of waste should be avoided or minimized wherever possible. Do not discharge into drains, water courses or onto the

ground.

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

regulations.

**Contaminated Packaging:** Dispose of as unused product.

# 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)

None present or none present in regulated quantities.

#### 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

Not classified

#### 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

Chemical Identity	Threshold Planning Quantity

Red iron oxide 10000 lbs Kieselguhr, soda ash flux- 10000 lbs

calcined

Silicic acid, ethyl ester 10000 lbs (1) QUARTZ 10000 lbs

## 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 requiring a warning under CA Prop 65.

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

## **Chemical Identity**

Siloxanes and Silicones, di-Me hydroxy terminated Red iron oxide Kieselguhr, soda ash flux-calcined Castor oil, hydrogenated Silicic acid, ethyl ester

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# (1) QUARTZ

## US. Massachusetts RTK - Substance List

# **Chemical Identity**

Red iron oxide

(1) QUARTZ

# US. Pennsylvania RTK - Hazardous Substances

# **Chemical Identity**

Red iron oxide

Kieselguhr, soda ash flux-calcined

Silicic acid, ethyl ester

#### **US. Rhode Island RTK**

## **Chemical Identity**

Red iron oxide

#### **Inventory Status:**

iiveiitory Otatas.		
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 Chemical Substance Inventory:	y (positive listing)	Remarks: None.

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

## **HMIS Hazard ID**

Health	0
Flammability	1
Physical Hazards	0
PERSONAL PROTECTION	

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

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Revision Date: No data available.

Version #: 3.1

Further Information: No data available.

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**

The information provided in this Safety Data Sheet is correct to the best ofour 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.

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