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# SAFETY DATA SHEET

Classified in accordance 29 CFR 1910.1200

# 1. Identification

Product identifier: TEGO® Rad 2650

**Chemical name:** Acrylated polysiloxane

Other means of identification

None.

**Recommended restrictions** 

Recommended use: Industrial use Restrictions on use: None known.

Manufacturer/Importer/Distributor Information

Company Name : Evonik Corporation

Nutrition & Care PO Box 34628 Richmond, VA 23234

USA

Telephone : +1 804 727 0700

Fax : +1 804 727 0845

E-mail : product-regulatory-services@evonik.com

**Emergency telephone number:** 

24-Hour Health : +1 800 424 9300 (CHEMTREC - US & CANADA)

Emergency 800 681 9531 (CHEMTREC MEXICO) +1 703 527 3887 (CHEMTREC WORLD)

2. Hazard(s) identification

**Hazard Classification** 

**Health Hazards** 

Toxic to reproduction Category 2

**Label Elements** 

**Hazard Symbol:** 



Signal Word: Warning



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**Hazard Statement:** 

Suspected of damaging fertility.

Precautionary Statements

Prevention: 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 exposed or concerned: Get medical advice/attention.

Storage: Store locked up.

**Disposal:** Dispose of contents/ container to an approved facility in accordance with

local, regional, national and international regulations.

Hazard(s) not otherwise classified (HNOC):

None.

# 3. Composition/information on ingredients

#### **Chemical name:**

Acrylated polysiloxane

Substances

# Composition information of impurities and stabilizers

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
octamethylcyclotetrasiloxane		556-67-2	0.01 - <0.25%

<sup>\*</sup> All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

The exact concentration has been withheld as a trade secret.

# 4. First-aid measures

# Description of necessary first-aid measures

General information: Remove soiled or soaked clothing immediately

**Inhalation:** fresh air supply, consult a doctor if feeling unwell.

Skin Contact: In case of contact with skin wash off with soap and water. In case

of discomfort: Supply with medical care.

Eye contact: In case of contact with eyes rinse thoroughly with water. In case

of discomfort: Supply with medical care.

**Ingestion:** Thoroughly clean the mouth with water In case of discomfort:

Supply with medical care.

**Personal Protection for First-aid** 

Responders:

No data available.



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#### Most important symptoms and effects, both acute and delayed

Symptoms: Up to now no symptoms are known.

Hazards: No data available.

# Indication of immediate medical attention and special treatment needed

Treatment: Treat symptomatically.

# 5. Fire-fighting measures

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: foam, carbon dioxide, dry powder, water spray.

Unsuitable extinguishing media: High volume water iet.

Special hazards arising from the

substance or mixture:

In the event of fire the following can be released: - Carbon monoxide, carbon dioxide, silicon dioxide Under certain conditions of combustion traces of other toxic substances.

cannot be excluded

Special protective equipment and precautions for fire-fighters

Special fire-fighting procedures: No specific precautions.

Special protective equipment for fire-

fighters:

Do not inhale explosion and/or combusition gases. Self-

contained breathing apparatus.

# 6. Accidental release measures

Personal precautions, protective equipment and emergency

procedures:

Use personal protective equipment. Ensure adequate

ventilation.

Accidental release measures: No data available.

Methods and material for

containment and cleaning up:

Take up with absorbent material (eg sand, kieselguhr, universal binder) Dispose of absorbed material in

accordance with the regulations.

**Environmental Precautions:** Do not allow to enter drains or waterways Prevent product

from getting into subsoil/soil.

# 7. Handling and storage

# Handling

Technical measures (e.g. Local and general ventilation):

Installation of an appropriate extraction system is necessary: - on the coater head if aerosol formation (misting) of the liquid silicone is observed - at the end of the UV chamber to remove most of the nitrogen gas (free radical curing silicones only), ozone and potential volatiles from the coating material. - when converting cured silicone at temperatures above 120°C - e.g. embossing and hotmelt coating - to remove potentially outgassing components. Short term: filter apparatus, combination filter A-P2



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Safe handling advice: Provide good ventilation of working area (local exhaust

ventilation if necessary). Do not inhale

gases/vapours/aerosols. Avoid contact with skin and eyes. If vapours / aerosols are generated during processing, local extraction at the processing machines is recommended. Do not inhale aerosols/ vapours/ gases as they are hazardous.

Contact avoidance measures: No data available.

Storage

Safe storage conditions: Keep container tightly closed in a cool, well-ventilated

place.Keep away from direct sunlight.Do not store together with oxidizing agents.Maximum storage temperature: 30 °C

Safe packaging materials: No data available.

# 8. Exposure controls/personal protection

#### **Control Parameters**

#### **Occupational Exposure Limits**

None of the components have assigned exposure limits.

# **Biological Limit Values**

No biological exposure limits noted for the ingredient(s).

Appropriate Engineering Controls Installation of an appropriate extraction system is necessary:

- on the coater head if aerosol formation (misting) of the liquid silicone is observed - at the end of the UV chamber to

remove most of the nitrogen gas (free radical curing silicones only), ozone and potential volatiles from the coating material. - when converting cured silicone at temperatures above 120°C - e.g. embossing and hotmelt coating - to remove potentially outgassing components.

Short term: filter apparatus, combination filter A-P2

#### Individual protection measures, such as personal protective equipment

Eye/face protection: Safety glasses

**Skin Protection** 

**Hand Protection:** Material: Nitrile rubber.

Break-through time: 480 min Material: Natural rubber. Break-through time: 480 min

Material: Chloroprene Break-through time: 480 min Material: Butyl rubber.

Break-through time: 480 min

Skin and Body Protection: protective clothing

**Respiratory Protection:** in case of formation of vapours/aerosols: Short term: filter

apparatus, combination filter A-P2



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**Hygiene measures:** When using do not eat, drink or smoke. Remove soiled or

soaked clothing immediately. Wash hands before breaks

and immediately after handling the product.

# 9. Physical and chemical properties

Information on basic physical and chemical properties

**Appearance** 

Physical state: liquid
Form: liquid
Color: Amber

Odor: faint inherent odor
Odor Threshold: not measured
Freezing point: not measured
Boiling Point: not measured
Flammability:
Upper/lower limit on flammability or explosive limits

**Explosive limit - upper:** not measured **Explosive limit - lower:** not measured

**Flash Point:** 262 °F/128 °C (DIN EN 22719)

Self Ignition Temperature: not measured

Decomposition Temperature: not measured

pH: not measured

**Viscosity** 

**Dynamic viscosity:** 300 - 600 mPa.s (77 °F/25 °C, DIN 53015) **Kinematic viscosity:** 300 - 600 mm2/s (77 °F/25 °C, calculated)

Flow Time: No data available.

Solubility(ies)

Solubility in Water: not measured
Solubility (other): not measured
Partition coefficient (n- not measured

octanol/water):

Vapor pressure: not measured Relative density: not measured

**Density:** Approximate 1 g/cm3 (77 °F/25 °C) (DIN 51757)

Bulk density: No data available. Relative vapor density: not measured

Other information

Explosive properties: not measured
Oxidizing properties: not oxidizing
Minimum ignition temperature: not measured

Metal Corrosion: Not corrosive to metals

Evaporation Rate: not measured

# 10. Stability and reactivity

**Reactivity:** see section "Possibility of hazardous reactions".



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**Chemical Stability:** The product is stable under normal conditions.

Possibility of hazardous reactions: Risk of polymerisation.

Conditions to avoid: Open flames, sparks or input of much heat direct sunlight

**Incompatible Materials:** Oxidizing agents.

**Hazardous Decomposition** 

**Products:** 

None with proper storage and handling.

# 11. Toxicological information

# Information on toxicological effects

# Information on likely routes of exposure

**Inhalation:** Information on effects are given below.

**Skin Contact:** Information on effects are given below.

**Eye contact:** Information on effects are given below.

**Ingestion:** Information on effects are given below.

#### Acute toxicity (list all possible routes of exposure)

Oral

**Product:** LD 50 (Rat): > 2,000 mg/kg

**Dermal** 

**Product:** No data available.

Not classified for acute toxicity based on available data.

Inhalation

**Product:** No data available.

Not classified for acute toxicity based on available data.

Repeated dose toxicity

**Product:** No data available.

Skin Corrosion/Irritation

**Product:** Not irritating Not irritating;

Serious Eye Damage/Eye Irritation

**Product:** Not irritating Not irritating

**Respiratory or Skin Sensitization** 

**Product:** Magnussona i Kligmana., OECD 406 (Guinea Pig): Not a skin sensitizer.

Carcinogenicity

**Product:** No data available.

# IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogens present or none present in regulated quantities



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#### **ACGIH: US.ACGIH Threshold Limit Values:**

No carcinogens present or none present in regulated quantities

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

No carcinogens present or none present in regulated quantities

# US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended:

No carcinogens present or none present in regulated quantities

#### **Germ Cell Mutagenicity**

No data available.

In vitro

**Product:** No data available.

Components:

octamethylcyclotetrasilox Ames test (OECD 471): negative

ane Chromosomal aberration (OECD 473): negative

gene mutation test (OECD 476): negative

In vivo

**Product:** No data available.

Components:

octamethylcyclotetrasilox Micronucleus test (OECD 474) Inhalation - vapor (Rat): negative

Chromosomal aberration (OECD 478) Oral (Rat): negative

Chromosomal aberration (OECD 475) Inhalation - vapor (Rat, Female,

Male): 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: Not classified

Information on health hazards

Other hazards

**Product:** No data available.

# 12. Ecological information

#### **Ecotoxicity:**

# Acute hazards to the aquatic environment:

Fish

**Product:** No data available.

**Aquatic Invertebrates** 

**Product:** No data available.

**Toxicity to Aquatic Plants** 

**Product:** No data available.

Components:

octamethylcyclotetrasilox EC 50 (Algae (Pseudokirchneriella subcapitata), 96 h): > 22 µg/l (US-EPA-



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ane method)

EC 50 (Algae (Pseudokirchneriella subcapitata), 96 h): > 22 μg/l (US-EPA-

method)

Toxicity to microorganisms

Product: No data available.

Chronic hazards to the aquatic environment:

**Product:** No data available.

**Aquatic Invertebrates** 

**Product:** No data available.

**Toxicity to Aquatic Plants** 

**Product:** No data available.

**Components:** 

octamethylcyclotetrasilox NOEC (Algae (Pseudokirchneriella subcapitata), 96 h): < 22 µg/l (US-EPA-

method)

Toxicity to microorganisms

**Product:** No data available.

Persistence and Degradability

**Biodegradation** 

**Product:** No data available.

**BOD/COD Ratio** 

**Product:** No data available.

Bioaccumulative potential

**Bioconcentration Factor (BCF)** 

No data available. **Product:** 

Partition Coefficient n-octanol / water (log Kow)

**Product:** Log Kow: not measured

Mobility in soil:

**Product** No data available.

Results of PBT and vPvB assessment:

**Product** No data available.

Other adverse effects:

Other hazards

**Product:** Do not allow to enter soil, waterways or waste water canal. Based

on expert judgement and on experimental data within an analogue approach, the maximum estimated aqueous concentration of typical impurities of siloxane polymers, migrating into water is below their

established no-effect threshold value for aquatic organisms.

13. Disposal considerations



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**Disposal methods:** In accordance with local authority regulations, take to special waste

incineration plant

Contaminated Packaging: If empty contaminated containers are recycled or disposed of, the

receiver must be informed about possible hazards.

# 14. Transport information

### **Domestic regulation**

#### **49 CFR**

Not regulated as a dangerous good

# International Regulations

# **UNRTDG**

Not regulated as a dangerous good

#### **IATA-DGR**

Not regulated as a dangerous good

#### **IMDG-Code**

Not regulated as a dangerous good

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

# 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.

# US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)

None present or none present in regulated quantities.

# US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended

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**

Reproductive toxicity

# US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances

None present or none present in regulated quantities.

#### US. EPCRA (SARA Title III Section 313 Toxic Chemical Release Inventory (TRI) Reporting

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.

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

None present or none present in regulated quantities.

#### **US State Regulations**

# **US.** California Proposition 65

No ingredient requiring a warning under CA Prop 65.

# **Inventory Status:**

US TSCA Inventory:	Included on Inventory.	
Canada DSL Inventory List:	Included on Inventory.	

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

# **HMIS Hazard ID**

Health		1
Flammability		1
Physical Hazards		0
PERSONAL PROTECTION		В

B - Safety Glasses & Gloves

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

**Issue Date:** 03/13/2019

Version #: 3.0

Further Information: No data available.

**Revision Information** Changes since the last version are highlighted in the margin. This version

replaces all previous versions.

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