

SAFETY DATA SHEET

Classified in accordance 29 CFR 1910.1200

1. Identification

Product identifier: TEGO® Rad 2550

Chemical name:

Acrylated Polydimethylsiloxanes

Other means of identification

CAS Number: 125455-52-9

Recommended restrictions

Recommended use: Industrial use

Restrictions on use: None known.

Manufacturer/Importer/Distributor Information

Company Name : Evonik Corporation
2 Turner Place
Piscataway, NJ 08854
USA

Telephone : +1 732 981 5000

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

Skin sensitizer

Sub-category 1B

Label Elements

Hazard Symbol:



Signal Word:

Warning

Hazard Statement:

May cause an allergic skin reaction.

Precautionary Statements

Prevention:

Avoid breathing dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Wear protective gloves/eye protection/face protection.

Response:

IF ON SKIN: Gently wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Hazard(s) not otherwise classified (HNOC):

None.

3. Composition/information on ingredients

Chemical name:

Acrylated Polydimethylsiloxanes

Substances

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%) [*]
Siloxanes and Silicones, di-Me, 3-[2-(hydroxy-3-[(1-oxo-2-propenyl)oxy]propoxy)propyl group-terminated		125455-52-9	99%

^{*} 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. Take for medical treatment

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 Call for medical advice, show the container or the label.

Personal Protection for First-aid Responders:

No data available.

Most important symptoms and effects, both acute and delayed

Symptoms:

Skin irritation

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 jet.

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 firefighters

Special fire fighting procedures: No specific precautions.

Special protective equipment for fire-fighters: Do not inhale explosion and/or combustion gases. Self-contained breathing apparatus.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Use personal protective equipment. Ensure adequate ventilation.

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

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. Do not keep at temperatures above 30 °C.

Safe packaging materials: No data available.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Hazardous components without workplace control parameters

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: Natural rubber.
Break-through time: 60 min
Material: Chloroprene
Break-through time: 60 min
Material: Nitrile rubber.
Break-through time: 30 min
Material: Fluorinated rubber
Break-through time: 480 min
Material: Butyl rubber.
Break-through time: 60 min

Skin and Body Protection: protective clothing

Respiratory Protection: in case of formation of vapours/aerosols: Short term: filter apparatus, combination filter A-P2

Hygiene measures: Do not eat, drink or smoke when working. Remove soiled or soaked clothing immediately. Wash hands before breaks and immediately after handling the product. Use barrier skin cream.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance

Physical state: liquid
Form: liquid
Color: greenish
Odor: specific to the product
Odor Threshold: not measured
Freezing point: not measured
Boiling Point: not measured
Flammability: not measured

Upper/lower limit on flammability or explosive limits

Explosive limit - upper: not measured
Explosive limit - lower: not measured
Flash Point: ≥ 214 °F/ ≥ 101 °C (DIN EN 22719)
Self Ignition Temperature: not measured
Decomposition Temperature: not measured
pH: Not applicable

Viscosity

Dynamic viscosity: Approximate 150 mPa.s (77 °F/25 °C, Brookfield)
Kinematic viscosity: Approximate 150 mm²/s (77 °F/25 °C, calculated)
Flow Time: No data available.

Solubility(ies)

Solubility in Water: Insoluble
Solubility (other): not measured
Partition coefficient (n-octanol/water): not measured
Vapor pressure: not measured
Relative density: not measured
Density: Approximate 1 g/cm³ (77 °F/25 °C)
Bulk density: No data available.
Relative vapor density: not measured

Particle characteristics

Particle Size: No data available.
Particle Size Distribution: No data available.
Specific surface area: No data available.
Surface charge/Zeta potential: No data available.
Shape: No data available.
Crystallinity: No data available.
Surface treatment: No data available.

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".
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.

Inhalation Product: No data available.

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): 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

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.**In vivo****Product:** No data available.**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.**Toxicity to microorganisms****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.

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)
Product: No data available.

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.

13. Disposal considerations

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):

Chemical Identity

Acetic acid, chromium(3+) salt
acrylic acid

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Not classified

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

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required

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.

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

Not regulated.

No ingredient requiring a warning under CA Prop 65.

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

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

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.

Inventory Status:

US TSCA Inventory:	Included on Inventory.	
Canada DSL Inventory List:	Not in compliance with the inventory.	Evonik has submitted a non-Final NSN (New Substance Notification) for this substance.

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

HMIS Hazard ID

Health		2
Flammability		1
Physical Hazards		0
PERSONAL PROTECTION		X

Consult supervisor for special handling instructions for these substances.

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

Issue Date: 10/13/2021

Version #: 1.1

Further Information: CTFA: complies

Revision Information Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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