

SAFETY DATA SHEET

Classified in accordance with 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 7801 Whitepine Road Richmond, VA 23237 USA

Telephone	: +1 804 727 0700
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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
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%

* 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 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.



	Thoroughly clean the mouth with water In case of discomfort: Supply with medical care.	
Personal Protection for First-aid Responders:	No data available.	
Most important symptoms and effects, b	oth acute and delayed	
Symptoms:	Up to now no symptoms are known.	
Hazards:	No data available.	
Indication of immediate medical attention a	nd special treatment needed	
Treatment:	Treat symptomatically.	
5. Fire-fighting measures		
Suitable (and unsuitable) extinguishing r	nedia	
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 precau	utions 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 procedure	Use personal protective equipment. Ensure adequate s: ventilation.	
Accidental release measures:	No data available.	
Methods and material for containmen and cleaning up:	t Take up with absorbent material (eg sand, diatomaceous earth, 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

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Technical measures:

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
Local/Total ventilation:	No data available.
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 No data available.

Individual protection measures, such as personal protective equipment (PPE)

Safety glasses
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
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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:

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:	not measured
Upper/lower limit on flammability or exp	plosive limits
Explosive limit - upper:	not measured
Explosive limit - lower:	not measured
Flash Point:	262 °F/128 °C Method: DIN EN 22719
Auto-ignition temperature:	806 °F/430 °C
Decomposition Temperature:	not measured
pH:	not measured
Viscosity	
Dynamic viscosity:	300 - 600 mPa.s at 77 °F/25 °C Method: DIN 53015
Kinematic viscosity:	300 - 600 mm2/s at 77 °F/25 °C , Method: calculated
Flow Time:	No data available.
Solubility(ies)	
Solubility in Water:	not measured
Solubility (other):	not measured
Partition coefficient (n-octanol/water):	not measured
Vapor pressure:	not measured
Relative density:	not measured
Density:	Approximate 1 g/cm3 at 77 °F/25 °C Method: DIN 51757
Bulk density:	No data available.
Relative vapor density:	not measured

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Other information	
Explosive properties:	not measured
Oxidizing properties:	not oxidizing
Self-ignition:	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 likely routes Inhalation:	of exposure 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 possil	ble 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 Irr Product:	r itation Not irritating, Not irritating	
Respiratory or Skin Sensitiz Product:	zation Magnussona i Kligmana., OECD 406, Guinea Pig, Not a skin sensitizer.	
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Carcinogenicity Product:	No data available.		
IARC Monographs on the Evaluation of Carcinogenic Risks to Humans: No carcinogens present or none present in regulated quantities			
	ACGIH: US.ACGIH Threshold Limit Values: No carcinogens present or none present in regulated quantities		
•••	ogram (NTP) Report on Carcinogens: none present in regulated quantities		
	ulated Substances (29 CFR 1910.1001-1053), as amended: none present in regulated quantities		
Germ Cell Mutagenicity No data available.			
In vitro Product: Components: octamethylcyclotetrasilox ane	No data available. Ames test, OECD 471: , negative Chromosomal aberration, OECD 473: , negative gene mutation test, OECD 476: , negative		
In vivo Product: Components: octamethylcyclotetrasilox ane	No data available. 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 Toxi Product:	city - Single Exposure No data available.		
Specific Target Organ Toxi Product:	city - Repeated Exposure No data available.		
Aspiration Hazard Product:	Not classified		
Information on health hazards			
Other hazards Product:	No data available.		
Ecological information			

12. Ecological information

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Ecotoxicity: Acute hazards to the aquatic environment:



Fish	
Product:	No data available.
Aquatic Invertebrates Product:	No data available.
Toxicity to Aquatic Plants Product:	
Toxicity to microorganisms Product:	No data available.
Chronic hazards to the aqua	atic environment:
Fish Product:	No data available.
Aquatic Invertebrates 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 (BC Product:	CF) No data available.
Partition Coefficient n-octan Product:	ol / water (log Kow) , not measured
Mobility in soil:	
Product:	No data available.
Results of PBT and vPvB ass	essment:
Product:	No data available.
Other adverse effects:	
Other hazards Product:	Do not allow to enter so expert judgement and o approach, the maximum impurities of siloxane po

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.

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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 (on the basis of current knowledge of the product composition).

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 (on the basis of current knowledge of the product composition).

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as amended

None present or none present in regulated quantities (on the basis of current knowledge of the product composition).

CERCLA Hazardous Substance List (40 CFR 302.4):

None present or none present in regulated quantities (on the basis of current knowledge of the product composition).

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 (on the basis of current knowledge of the product composition).

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

None present or none present in regulated quantities (on the basis of current knowledge of the product composition).

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

None present or none present in regulated quantities (on the basis of current knowledge of the product composition).

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

None present or none present in regulated quantities (on the basis of current knowledge of the product composition).

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

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Abbreviations and acronyms:

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical



Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide: GHS - Globally Harmonized System: GLP - Good Laboratory Practice: HMIS -Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA -International Air Transport Association: IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO -International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL -Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI -Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 -Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD -Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI -Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods: vPvB - Verv Persistent and Verv Bioaccumulative

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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