

**SAFETY DATA SHEET****Dynasylan® HYDROSIL 2909**

Material no.		Version	<b>4.1 / US</b>
Specification	<b>116621</b>	Revision date	<b>05/29/2015</b>
Order Number		Print Date	<b>06/25/2015</b>
		Page	<b>1 / 10</b>

**1. Identification****1.1. Product identifier**

Trade name Dynasylan® HYDROSIL 2909

**1.2. Recommended use of the chemical and restrictions on use**

Relevant applications identified For industrial use  
Function Coupling agent  
Crosslinking agents  
Surface modifier

**1.3. Details of the supplier of the safety data sheet**

Company Evonik Corporation USA  
299 Jefferson Road  
Parsippany, NJ 07054-0677  
USA

Telephone 973-929-8000

Telefax 973-929-8040

Email address Product-Regulatory-Services@Evonik.com

**1.4. 24 HOUR EMERGENCY TELEPHONE NUMBERS:**

**CHEMTREC - US & CANADA:** 800-424-9300

**CHEMTREC MEXICO:** 01-800-681-9531

**CHEMTREC INTERNATIONAL:** +1 703-527-3887 (collect calls accepted)

Product Regulatory Services : 973-929-8060

**2. Hazards identification****2.1. Classification of the substance or mixture**

Classification according to Regulation 29CFR 1910.1200  
Remarks Not a hazardous substance or mixture.

**2.2. Label elements**

Statutory basis Classification according to Regulation 29CFR 1910.1200  
Remarks Not a hazardous substance or mixture.

**2.3. Other hazards**

None known

**3. Composition/information on ingredients**

**SAFETY DATA SHEET****Dynasylan® HYDROSIL 2909**

Material no.		Version	4.1 / US
Specification	116621	Revision date	05/29/2015
Order Number		Print Date	06/25/2015
		Page	2 / 10

**• Methanol < 0.3%**

CAS-No. 67-56-1

Flammable liquids Category 2

Acute toxicity (Oral) Category 3

Acute toxicity (Inhalation) Category 3

Acute toxicity (Dermal) Category 3

Specific target organ toxicity - single exposure Category 1

**• NJTSR No.56705700001-6080P**

Trade Secret

Remarks Not a hazardous substance or mixture.

**4. First aid measures****4.1. Description of first aid measures****Inhalation**

If aerosol or mists are inhaled, take affected persons out into the fresh air. In case of persistent discomfort or other symptoms, consult a physician immediately.

**Skin contact**

Immediately wash skin with soap and plenty of water. Remove contaminated clothing. Obtain medical attention immediately if symptoms occur. Wash clothing before reuse.

**Eye contact**

In case of contact, immediately flush eyes with plenty of water. Obtain medical attention if irritation develops.

**Ingestion**

If accidentally swallowed, rinse mouth thoroughly with water and afterwards, drink plenty of water. In case of discomfort, obtain medical attention.

**4.2. Most important symptoms and effects, both acute and delayed****Symptoms**

None known

**4.3. Indication of any immediate medical attention and special treatment needed**

After absorbing large amounts of substance:

administration of activated charcoal.

Acceleration of gastrointestinal passage

**5. Fire-fighting measures****5.1. Extinguishing media**

Suitable extinguishing media: Water spray, foam, CO<sub>2</sub>, dry powder.

Unsuitable extinguishing media: High volume water jet.

**5.2. Special hazards arising from the substance or mixture**

Standard procedure for chemical fires.

**5.3. Advice for firefighters**

As in any fire, wear self-contained positive-pressure breathing apparatus, (MSHA/NIOSH approved or equivalent) and full protective gear.

**6. Accidental release measures**

**SAFETY DATA SHEET****Dynasylan® HYDROSIL 2909**

Material no.		Version	<b>4.1 / US</b>
Specification	<b>116621</b>	Revision date	<b>05/29/2015</b>
Order Number		Print Date	<b>06/25/2015</b>
		Page	<b>3 / 10</b>

**6.1. Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation. Use personal protective equipment.

**6.2. Environmental precautions**

Obey relevant local, state, provincial and federal laws and regulations. Do not contaminate any lakes, streams, ponds, groundwater or soil.

**6.3. Methods and material for containment and cleaning up**

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

**7. Handling and storage****7.1. Precautions for safe handling**

Avoid contact with eyes, skin and clothing. Use with adequate ventilation. Avoid breathing vapor or mist. Follow all MSDS/label precautions even after container is emptied because it may retain product residues. Wash thoroughly after handling.

**7.2. Conditions for safe storage, including any incompatibilities****Advice on protection against fire and explosion**

Normal measures for preventive fire protection.

**Storage**

Keep containers tightly closed in a cool, well-ventilated place. Protect from moisture.

Residual vapors might explode on ignition; do not apply heat, cut, drill, grind or weld on or near this container.

**Further information**

Keep tightly sealed in original packing.

Protect from frost.

**8. Exposure controls/personal protection****8.1. Control parameters**

• Methanol		
CAS-No.	67-56-1	
Control parameters	200 ppm	Time Weighted Average (TWA):(ACGIH)
Control parameters	250 ppm	Short Term Exposure Limit (STEL):(ACGIH)
Control parameters		Skin designation:(ACGIH)
	Can be absorbed through the skin.	
Control parameters	200 ppm 260 mg/m <sup>3</sup>	Permissible exposure limit:(OSHA Z1)
Control parameters	200 ppm 260 mg/m <sup>3</sup>	Time Weighted Average (TWA) Permissible Exposure Limit (PEL):(US CA OEL)
Control parameters	1000 ppm	Ceiling Limit Value:(US CA OEL)
Control parameters	250 ppm 325 mg/m <sup>3</sup>	Short Term Exposure Limit (STEL):(US CA OEL)
Control parameters		Skin designation:(US CA OEL)
	Can be absorbed through the skin.	
Control parameters	200 ppm 260 mg/m <sup>3</sup>	Time Weighted Average (TWA):(TN OEL)
Control parameters	250 ppm 325 mg/m <sup>3</sup>	Short Term Exposure Limit (STEL):(TN OEL)

**SAFETY DATA SHEET****Dynasylan® HYDROSIL 2909**

Material no.		Version	4.1 / US
Specification	116621	Revision date	05/29/2015
Order Number		Print Date	06/25/2015
		Page	4 / 10

Control parameters

Can be absorbed through the skin.

Skin designation:(TN OEL)

**8.2. Exposure controls****Engineering measures**

Provide for good ventilation if vapors/aerosols are formed.

**Personal protective equipment****Respiratory protection**

A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 or applicable federal/provincial requirements must be followed whenever workplace conditions warrant respirator use. NIOSH's "Respirator Decision Logic" may be useful in determining the suitability of various types of respirators.

**Hand protection**

Use impermeable gloves.

**Eye protection**

Use chemical splash goggles or face shield.

**Skin and body protection**

A safety shower and eye wash fountain should be readily available.

To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with the OSHA PPE Standard (29CFR1910.132) be conducted before using this product.

**Hygiene measures**

Avoid contact with skin, eyes and clothing. Do not inhale vapors or aerosols. Do not eat, drink, or smoke when using the product. Remove contaminated or saturated clothing.

**9. Physical and chemical properties****9.1. Information on basic physical and chemical properties**

physical state	liquid
Colour	colorless
Form	liquid
Odour	odorless
Odour Threshold	no data available
pH	4 (20 °C)
Melting point/range	not determined
Boiling point/range	102 °C (1013 hPa) Water
Flash point	> 95 °C Method: DIN EN ISO 2719 (Pensky-Martens, Closed Cup)
Evaporation rate	not determined
Flammability (solid, gas)	no data available
Lower explosion limit	not determined
Upper explosion limit	not determined

**SAFETY DATA SHEET****Dynasylan® HYDROSIL 2909**

Material no.		Version	4.1 / US
Specification	116621	Revision date	05/29/2015
Order Number		Print Date	06/25/2015
		Page	5 / 10

Vapour pressure	22.7 hPa (20 °C)
Density	1.094 g/cm <sup>3</sup> (20 °C) Method: DIN 51757
Water solubility	dilutable
Partition coefficient: n-octanol/water	not determined
Autoignition temperature	470 °C Method: DIN 51 794
Thermal decomposition	not determined
Viscosity, dynamic	152 mPa.s (20 °C) Method: DIN 53 015

**9.2. Other information**

no data available

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**10. Stability and reactivity****10.1. Reactivity**

No dangerous reaction known under conditions of normal use.

**10.2. Chemical stability**

Stable under recommended storage conditions.

**10.3. Possibility of hazardous reactions**

Possibility of hazardous reactions      No dangerous reactions known.

**10.4. Conditions to avoid**

Protect from frost.

**10.5. Incompatible materials**

None known

**10.6. Hazardous decomposition products**

None known

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**11. Toxicological information****11.1. Information on toxicological effects**

Acute oral toxicity	Acute toxicity estimate : > 5000 mg/kg Method: Calculation method
Acute inhalation toxicity	Acute toxicity estimate : > 40 mg/l / 4 h / vapour Method: Calculation method
Acute dermal toxicity	Acute toxicity estimate : > 5000 mg/kg Method: Calculation method

**SAFETY DATA SHEET****Dynasylan® HYDROSIL 2909**

Material no.		Version	4.1 / US
Specification	116621	Revision date	05/29/2015
Order Number		Print Date	06/25/2015
		Page	6 / 10

Eye irritation	Irritating to eyes. The data are derived from the labeling according to the EC Dangerous Preparations Directive.
carcinogenicity assessment	Contains no carcinogenic substances as defined by NTP, IARC and/or OSHA.

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**12. Ecological information****12.1. Toxicity****12.2. Persistence and degradability**

Biodegradability No data available

**12.3. Bioaccumulative potential**

Bioaccumulation No data available

**12.4. Mobility in soil**

Mobility No data available

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**12.5. Other adverse effects**

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**13. Disposal considerations****13.1. Waste treatment methods****Product**

Waste must be disposed of in accordance with federal, state and local regulations. Incineration is the preferred method. Empty containers must be handled with care due to product residue. DO NOT HEAT OR CUT THE EMPTY CONTAINER WITH ELECTRIC OR GAS TORCH.

**Uncleaned packaging**

Do not reuse empty containers and dispose of in accordance with the regulations issued by the appropriate local authorities.

Incorrect disposal or reuse of this container is illegal and can be dangerous.

Other countries: observe the national regulations.

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**14. Transport information****Not dangerous according to transport regulations.**

14.1. UN number:	--
14.2. UN proper shipping name:	--
14.3. Transport hazard class(es):	--
14.4. Packing group:	--

**SAFETY DATA SHEET****Dynasylan® HYDROSIL 2909**

Material no.		Version	4.1 / US
Specification	116621	Revision date	05/29/2015
Order Number		Print Date	06/25/2015
		Page	7 / 10

- 14.5. Environmental hazards (Marine pollutant): --
- 14.6. Special precautions for user: Yes  
Not dangerous according to transport regulations.

**15. Regulatory information****US Federal Regulations****OSHA**

If listed below, chemical specific standards apply to the product or components:

- None listed

**Clean Air Act Section (112)**

If listed below, components present at or above the de minimus level are hazardous air pollutants:

- Methanol  
CAS-No. 67-56-1

**CERCLA Reportable Quantities**

If listed below, a reportable quantity (RQ) applies to the product based on the percent of the named component:

- None listed

**SARA Title III Section 311/312 Hazard Categories**

The product meets the criteria only for the listed hazard classes:

- Acute Health Hazard

**SARA Title III Section 313 Reportable Substances**

If listed below, components are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

- None listed

**Toxic Substances Control Act (TSCA)**

If listed below, non-proprietary substances are subject to export notification under Section 12 (b) of TSCA:

- None listed

**State Regulations**

The Listing requirements of the Right to Know (RTK) legislation varies by state. All information for NJ, PA, MA and other states can be derived from the listing of hazardous and non-hazardous components in section 2 and 15 of this MSDS.

**California Proposition 65**

A warning under the California Drinking Water Act is required only if listed below:

- None listed

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Material no.		Version	<b>4.1 / US</b>
Specification	<b>116621</b>	Revision date	<b>05/29/2015</b>
Order Number		Print Date	<b>06/25/2015</b>
		Page	<b>8 / 10</b>

An employer using HMIS/NFPA labeling must through training ensure that its employees are fully aware of the hazards of the chemicals used.

**HMIS Ratings**

Health :	1
Flammability :	1
Physical Hazard :	0

**NFPA Ratings**

Health :	1
Flammability :	1
Reactivity :	0

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**16. Other information****Further information**

Revision date 05/29/2015

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

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**SAFETY DATA SHEET****Dynasylan® HYDROSIL 2909**

Material no.		Version	4.1 / US
Specification	116621	Revision date	05/29/2015
Order Number		Print Date	06/25/2015
		Page	9 / 10

**Legend**

<b>ACC</b>	American Chemistry Council
<b>ACGIH</b>	American Conference of Governmental Industrial Hygienists
<b>ACS</b>	Advisory Committee on Sustainability
<b>ADI</b>	Acceptable Daily Intake
<b>ASTM</b>	American Society for Testing and Materials
<b>ATP</b>	Adaptation to Technical Progress
<b>BCF</b>	Bioconcentration factor
<b>BOD</b>	Biochemical oxygen demand
<b>c.c.</b>	closed cup
<b>CAO</b>	Cargo Aircraft Only
<b>Carc</b>	Carcinogen
<b>CAS</b>	Chemical Abstract Services
<b>CDN</b>	Canada
<b>CEPA</b>	Canadian Environmental Protection Act
<b>CERCLA</b>	Comprehensive Environmental Response – Compensation and Liability Act
<b>CFR</b>	Code of Federal Regulations
<b>CMR</b>	carcinogenic-mutagenic-toxic for reproduction
<b>COD</b>	Chemical oxygen demand
<b>DIN</b>	German Institute for Standardization
<b>DMEL</b>	Derived minimum effect level
<b>DNEL</b>	Derived no effect level
<b>DOT</b>	Department of Transportation
<b>EC50</b>	half maximal effective concentration
<b>EPA</b>	Environmental Protection Agency
<b>ErC50</b>	Reduction of Growth Rate
<b>ERG</b>	Emergency Response Guide Book
<b>FDA</b>	Food and Drug Administration
<b>GHS</b>	Globally Harmonized System of Classification and Labelling of Chemicals (GHS)
<b>GLP</b>	Good Laboratory Practice
<b>GMO</b>	Genetic Modified Organism
<b>HCS</b>	Hazard Communication Standard
<b>HMIS</b>	Hazardous Materials Identification System
<b>IARC</b>	International Agency for Research on Cancer
<b>IATA</b>	International Air Transport Association
<b>IBC</b>	Intermediate Bulk Container
<b>ICAO-TI</b>	International Civil Aviation Organization- Technical Instructions
<b>ICCA</b>	International Council of Chemical Association
<b>ID</b>	Identification number
<b>IMDG</b>	International Maritime Dangerous Goods
<b>IUPAC</b>	International Union of Pure and Applied Chemistry
<b>ISO</b>	International Organization For Standardization
<b>LC50</b>	50 % Lethal Concentration
<b>LD50</b>	50 % Lethal Dose
<b>L(EC50)</b>	LC50 or EC50
<b>LOAEL</b>	Low est observed adverse effect level
<b>LOEL</b>	Low est observed effect level
<b>MARPOL</b>	International Convention for the Prevention of Pollution from Ships
<b>NFPA</b>	National Fire Protection Association
<b>NOAEL</b>	No observed adverse effect level
<b>NOEC</b>	no observed effect concentration
<b>NOEL</b>	no observed effect level
<b>o. c.</b>	open cup
<b>OECD</b>	Organisation for Economic Cooperation and Development
<b>OEL</b>	Occupational Exposure Limit
<b>OSHA</b>	Occupational Safety and Health Administration
<b>PBT</b>	Persistent, bioaccumulative, toxic
<b>PEC</b>	Predicted effect concentration
<b>PNEC</b>	Predicted no effect concentration
<b>RQ</b>	Reportable Quantity
<b>SDS</b>	Safety Data Sheet
<b>STOT</b>	Specific Target Organ Toxicity
<b>UN</b>	United Nations
<b>vPvB</b>	very persistent, very bioaccumulative

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Material no.		Version	<b>4.1 / US</b>
Specification	<b>116621</b>	Revision date	<b>05/29/2015</b>
Order Number		Print Date	<b>06/25/2015</b>
		Page	<b>10 / 10</b>

**voc** volatile organic compounds  
**WHMIS** Workplace Hazardous Materials Information System  
**WHO** World Health Organization