

SAFETY DATA SHEET
Dynasylan® HYDROSIL 2909



Material no.		Version	4.1 / US
Specification	116621	Revision date	05/29/2015
Order Number		Print Date	07/28/2015
		Page	1 / 10

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

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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	07/28/2015
		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, CO₂, 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	4.1 / US
Specification	116621	Revision date	05/29/2015
Order Number		Print Date	07/28/2015
		Page	3 / 10

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 ³	Permissible exposure limit:(OSHA Z1)
Control parameters	200 ppm 260 mg/m ³	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 ³	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 ³	Time Weighted Average (TWA):(TN OEL)
Control parameters	250 ppm 325 mg/m ³	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	07/28/2015
		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	07/28/2015
		Page	5 / 10

Vapour pressure	22.7 hPa (20 °C)
Density	1.094 g/cm ³ (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

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

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	07/28/2015
		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.

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

12.5. Other adverse effects

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.

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	07/28/2015
		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

SAFETY DATA SHEET**Dynasylan® HYDROSIL 2909**

Material no.		Version	4.1 / US
Specification	116621	Revision date	05/29/2015
Order Number		Print Date	07/28/2015
		Page	8 / 10

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

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	07/28/2015
		Page	9 / 10

Legend

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

SAFETY DATA SHEET**Dynasylan® HYDROSIL 2909**

Material no.		Version	4.1 / US
Specification	116621	Revision date	05/29/2015
Order Number		Print Date	07/28/2015
		Page	10 / 10

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