

**SAFETY DATA SHEET****Dynasylan® 1505**

Material no.		Version	<b>2.0 / US</b>
Specification	<b>116729</b>	Revision date	<b>05/29/2015</b>
Order Number		Print Date	<b>06/11/2015</b>
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**1. Identification****1.1. Product identifier**

Trade name	Dynasylan® 1505
Chemical Name	3-(diethoxymethylsilyl)propylamine
CAS-No.	3179-76-8

**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:**

<b>CHEMTREC - US &amp; CANADA:</b>	800-424-9300
<b>CHEMTREC MEXICO:</b>	01-800-681-9531
<b>CHEMTREC INTERNATIONAL:</b>	+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

Flammable liquids	Category 4	H227
Skin corrosion	Category 1B	H314
Serious eye damage	Category 1	H318

**2.2. Label elements**Statutory basis  
Symbol(s)

Classification according to Regulation 29CFR 1910.1200



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Signal word	Danger
Hazard statement	H227 - Combustible liquid. H314 - Causes severe skin burns and eye damage.
Precautionary statement Prevention	P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P260 - Do not breathe dust/ fume/ gas/ mist/ vapours/ spray. P264 - Wash skin thoroughly after handling. P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection.
Precautionary statement Reaction	P301 + P330 + P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 - Immediately call a POISON CENTER or doctor/ physician. P363 - Wash contaminated clothing before reuse. P370 + P378 - In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish.
Precautionary statement Storage	P403 + P235 - Store in a well-ventilated place. Keep cool. P405 - Store locked up.
Precautionary statement Disposal	P501 - Dispose of contents/ container to an approved waste disposal plant.

Contains 3-(diethoxymethylsilyl)propylamine

The following percentage of the mixture consists of ingredient(s) with unknown acute toxicity: 97 %

### 2.3. Other hazards

None known

## 3. Composition/information on ingredients

• <b>3-(diethoxymethylsilyl)propylamine</b>	<= 100%
CAS-No.	3179-76-8
Flammable liquids	Category 4
Skin corrosion	Category 1B
Serious eye damage	Category 1

#### Other information

This material is classified as hazardous under OSHA regulations.

## 4. First aid measures

### 4.1. Description of first aid measures

#### General advice

Remove contaminated or saturated clothing immediately and follow safe disposal procedures.

#### Inhalation

If aerosol or mists are formed, take affected persons out into the fresh air. Possible discomfort include severe irritation of mucous lining (nose, throat, eyes), cough, sneezing and flow of tears. Call a physician immediately.

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If breathing difficulties occur:

Keep patient half sitting with upper body raised.

**Skin contact**

Immediately wash with soap and water for at least fifteen minutes. Remove contaminated clothing and shoes. Obtain medical attention. Thoroughly wash clothing and shoes before reuse.

**Eye contact**

Rinse eye thoroughly immediately with plenty of water for at least 10 minutes. Continue rinsing process with eye rinsing solution. Protect uninjured eye. For caustic burn of the eyes, call an ambulance and obtain immediate medical treatment from an ophthalmologist.

**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**

If substance has been swallowed, apply therapy for chemical burn. Early endoscopy is recommended in order to assess mucosa lesions in the esophagus and stomach which may appear. If necessary, suck away left over substances.

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

Suitable extinguishing media: water spray, foam, Carbon dioxide (CO<sub>2</sub>), dry powder

Unsuitable extinguishing media: Water

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

Hazardous fumes in fires, specific to the product:

nitrogen oxides (NO<sub>x</sub>) Combustible liquid. Vapors can travel to a source of ignition and flash back. Explosive mixtures may occur at temperatures at or above the flashpoint.

**5.3. Advice for firefighters**

Water used to extinguish fire should not enter drainage systems, soil or stretches of water.

Ensure there are sufficient retaining facilities for water used to extinguish fire.

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Containers can build up pressure if exposed to heat (fire). Cool with water spray.

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

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**6. Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Ensure adequate ventilation.

**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).

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**Additional advice**

Remove sources of ignition and ventilate area.  
 Run off may create fire or explosion hazard in sewer.  
 Assure sufficient ventilation.

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

Avoid contact with skin, eyes and clothing. Wear personal protective equipment; see section 8. Vapors may spread long distances and travel to areas away from the work site before igniting or flashing back to the vapor source.

Keep away from heat, sparks, flames and other sources of ignition. Keep container tightly closed. Use only with adequate ventilation.

Wash thoroughly after handling.

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

This material may have a low electrical conductivity and therefore may accumulate dangerous levels of static electricity. An ignitable vapor-air mixture can form inside storage tanks.

The user must be sure to dissipate static charge by careful bonding and grounding of all equipment and personnel involved in fluid transfer with continuity checks to prove effectiveness. Additional precautions against fire and explosion are the use of inert gas to purge vapor space; dip-pipes while filling vessels, especially lined vessels; grounded tank level floats; reduced flow velocity; self-closing valves on transfer lines and flame arrestors in vent lines.

Additional guidance on fire and explosion protection may be found in various consensus standards, including NFPA 30, 69 and 77 and API 2003 as well as OSHA regulation 29CFR1910.106.

Follow all MSDS/label precautions even after container is emptied because it may retain product residues.

**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.

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

• Ethanol		
CAS-No.	64-17-5	
Control parameters	1000 ppm 1900 mg/m <sup>3</sup>	Permissible exposure limit:(OSHA Z1)
Control parameters	1000 ppm 1900 mg/m <sup>3</sup>	Time Weighted Average (TWA) Permissible Exposure Limit (PEL):(US CA OEL)
Control parameters	1000 ppm	Short Term Exposure Limit (STEL):(ACGIH)
Control parameters	1000 ppm 1900 mg/m <sup>3</sup>	Time Weighted Average (TWA):(TN OEL)

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

Use this product preferably in a closed system, or use process enclosures, local exhaust ventilation or other engineering controls to minimize airborne exposure.

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**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 (29CFR 1910.132) 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 (20 °C) (1013 hPa)
Colour	colorless to yellowish
Form	liquid
Odour	amine-like
Odour Threshold	not determined
pH	11 (20 g/l) (20 °C)
Melting point/range	< -180 °C (1013 hPa) Method: OECD Test Guideline 102
Boiling point/range	ca. 202 °C (1013 hPa) Method: DIN 51 751
Flash point	85 °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
Vapour pressure	3 hPa (55 °C)
Vapour density	no data available

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Density	0.92 g/cm <sup>3</sup> (20 °C)
	Method: DIN 51757
Water solubility	not miscible decomposition by hydrolysis
Partition coefficient: n-octanol/water	log Pow: 2.5 (20 °C)
	Method: QSAR-Method
Autoignition temperature	not determined
Thermal decomposition	not determined
Viscosity, dynamic	2 mPa.s (20 °C)
	Method: DIN 53 015
Viscosity, kinematic	no data available

**9.2. Other information**

Explosiveness	Vapors can form explosive mixtures with air.  not explosive
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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 Exothermic reaction with: acids

**10.4. Conditions to avoid**

Protect from moisture.  
Keep away from heat and sources of ignition.

**10.5. Incompatible materials**

Water, Acids

**10.6. Hazardous decomposition products**

Ethanol in case of hydrolysis

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

Acute oral toxicity	LD50 Rat: > 2000 mg/kg
	Method: OECD Test Guideline 401
	Assessment: The substance or mixture has no acute oral toxicity
Acute inhalation toxicity	No data available

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Acute dermal toxicity	LD50 Rabbit: > 2000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute dermal toxicity
Skin irritation	Rabbit Causes burns. Method: OECD Test Guideline 404 (Necroses after an exposure time of up to 60 minutes / OEDC test 404)
Eye irritation	Rabbit Corrosive Method: OECD Test Guideline 405
Sensitization	No data available
Repeated dose toxicity	Oral Rat NOAEL: 200 mg/kg Method: OECD TG 408
Assessment of STOT single exposure	Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.
Assessment of STOT repeat exposure	Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
Risk of aspiration toxicity	No evidence of aspiration toxicity
Gentoxicity in vitro	no evidence of mutagenic effects
carcinogenicity assessment	Contains no carcinogenic substances as defined by NTP, IARC and/or OSHA.
Toxicity to reproduction	Oral Rat NOAEL (No Observed Adverse Effect Level) of parents: $\geq$ 600 mg/kg Method: OECD TG 414 Test substance: Structurally similar substance

**12. Ecological information****12.1. Toxicity**

Toxicity to fish	LC50 Danio rerio (zebra fish): > 934 mg/l / 96 h Test substance: Structurally similar substance Method: OECD TG 203
Toxicity in aquatic invertebrates	EC50 Daphnia magna (Water flea): 331 mg/l / 48 h Test substance: Structurally similar substance Method: OECD TG 202
Toxicity to algae	EC50 Desmodesmus subspicatus (green algae): > 1000 mg/l / 72 h Test substance: Structurally similar substance Method: OECD TG 201

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**12.2. Persistence and degradability**

Biodegradability	Exposure time:	28 d
	Result:	67 % Not readily biodegradable.
	Test substance:	Structurally similar substance
	Method:	(DOC; Die Away test - 79/831/EEC part C.4-A)

**12.3. Bioaccumulative potential**

Bioaccumulation	not bioaccumulative
	log Pow: see chapter 9

**12.4. Mobility in soil**

Mobility	Adsorption on the floor: low.
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**12.5. Other adverse effects**

Further Information	The data we have at our disposal do not necessitate identification concerning environmental hazard.
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**13. Disposal considerations****13.1. Waste treatment methods****Product**

Waste must be disposed of in accordance with federal, state, provincial and local regulations.

Since empty containers retain product residue, follow MSDS and label warnings even after container is emptied.

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

**Uncleaned packaging**

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

If there is product residue in the emptied container, follow directions for handling on the container's label.

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****D.O.T. Road/Rail**

14.1. UN number:	UN 3267
14.2. UN proper shipping name:	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (3-Aminopropyl-methyl-diethoxysilane)
14.3. Transport hazard class(es):	8
14.4. Packing group:	II
14.5. Environmental hazards (Marine pollutant):	--



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14.6. Special precautions for user: No

**Air transport ICAO-TI/IATA-DGR**

- 14.1. UN number: UN 3267  
14.2. UN proper shipping name: Corrosive liquid, basic, organic, n.o.s. (3-Aminopropyl-methyl-diethoxysilane)  
14.3. Transport hazard class(es): 8  
14.4. Packing group: II  
14.5. Environmental hazards: --  
14.6. Special precautions for user: Yes  
IATA-C: ERG-Code 8L  
IATA-P: ERG-Code 8L

**Sea transport IMDG-Code/GGVSee (Germany)**

- 14.1. UN number: UN 3267  
14.2. UN proper shipping name: CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (3-Aminopropyl-methyl-diethoxysilane)  
14.3. Transport hazard class(es): 8  
14.4. Packing group: II  
14.5. Environmental hazards (Marine pollutant): --  
14.6. Special precautions for user: Yes  
EmS: F-A,S-B  
Clear of living quarters.  
Keep separate from acids.  
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: for transport approval see regulatory information

**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:

- None listed

**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

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- Fire 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

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 :	3
Flammability :	2
Physical Hazard :	1

**NFPA Ratings**

Health :	3
Flammability :	2
Reactivity :	1

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