

# SAFETY DATA SHEET

Classified in accordance with 29 CFR 1910.1200

# 1. Identification

**Product identifier:** Dynasylan® 1505 **Chemical name:** 3-(diethoxymethylsilyl)propylamine

# Other means of identification CAS Number: 3179-76-8

# **Recommended restrictions**

**Recommended use:** For industrial use Coupling agent Crosslinking agents Surface modifier **Restrictions on use:** Not determined.

# 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**

# **Physical Hazards**

Flammable liquids	Category 4
Health Hazards	
Skin Corrosion/Irritation	Category 1B
Serious Eye Damage/Eye Irritation	Category 1

# Label Elements

# Hazard Symbol:



Signal Word:

Danger



Hazard Statement: Precautionary	Combustible liquid. Causes severe skin burns and eye damage.
Statements	
Prevention:	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not breathe dust/fume/gas/mist/vapors/spray. Wash face, hands and any exposed skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.
Response:	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. Wash contaminated clothing before reuse. Specific treatment (see supplemental first aid instructions on this label). IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
Storage:	Store in a well-ventilated place. Keep cool. 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 None. classified (HNOC):

# 3. Composition/information on ingredients

#### Chemical name:

3-(diethoxymethylsilyl)propylamine

Substances

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
3-(diethoxymethylsilyl)propylamine		3179-76-8	>90 - <=100%

\* 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 contaminated or saturated clothing immediately and follow safe disposal procedures.



Inhalation:If aerosol or mists are formed: Possible disconfort: a irritation of mucous lining (nose, throat, eyes), cough flow of tears Move to fresh air. If breathing difficulties patient half sitting with upper body raised. Get medic immediately.Skin Contact:Immediately wash with soap and water for at least fil minutes. Remove contaminated clothing and shoes. medical attention. Thoroughly rinse immediately wi water for at least 10 minutes. Continue rinsing proce rinsing solution. Protect unharmed eye. Call ambular caustic burn of the eyes) Immediate further treatmer ophthalmic hospital/ ophthalmologist. Continue rinsing arrival at ophthalmic hospital.Ingestion:Do NOT induce vomiting. Only when patient fully cor the mouth rinsed with water. Have patient drink plen small sips. Notify ambulance immediately (keyword: burn).Personal Protection for First-aid Responders:No data available.	a, sneezing, s occur: Keep cal attention fteen . Obtain
Eye contact:With eye held open, thoroughly vash clothing and shoes. medical attention. Thoroughly rinse immediately wi water for at least 10 minutes. Continue rinsing proce rinsing solution. Protect unharmed eye. Call ambular caustic burn of the eyes) Immediate further treatmen ophthalmic hospital/ ophthalmologist. Continue rinsir arrival at ophthalmic hospital.Ingestion:Do NOT induce vomiting. Only when patient fully cor the mouth rinsed with water. Have patient drink plen small sips. Notify ambulance immediately (keyword: burn).Personal Protection for First-aidNo data available.	. Obtain
water for at least 10 minutes. Continue rinsing proce rinsing solution. Protect unharmed eye. Call ambular caustic burn of the eyes) Immediate further treatmen ophthalmic hospital/ ophthalmologist. Continue rinsin arrival at ophthalmic hospital.Ingestion:Do NOT induce vomiting. Only when patient fully cor the mouth rinsed with water. Have patient drink plen small sips. Notify ambulance immediately (keyword: burn).Personal Protection for First-aidNo data available.	
the mouth rinsed with water. Have patient drink plen small sips. Notify ambulance immediately (keyword: burn).Personal Protection for First-aidNo data available.	ss with eye nce. (Cue: nt in
	ty of water in
Most important symptoms and effects, both acute and delayed	
Symptoms: No data available.	
Hazards: None known.	
Indication of immediate medical attention and special treatment needed         Treatment:       If substance has been swallowed, apply therapy for burn. Early endoscopy is recommended in order to a mucosa lesions in the esophagus and stomach whic appear. If necessary, suck away left over substance	assess h may
5. Fire-fighting measures	
Suitable (and unsuitable) extinguishing media Suitable extinguishing media: Water spray, foam, dry powder or carbon dioxid	
Unsuitable extinguishing media: High volume water jet.	9.

Special hazards arising from the<br/>substance or mixture:Hazardous fumes in fires, specific to the product: Nitrogen<br/>OxidesCombustible liquid. Vapors can travel to a source of<br/>ignition and flash back. Explosive mixtures may occur at<br/>temperatures at or above the flashpoint.

Special protective equipment and precautions for firefighters

Special fire fighting procedures:	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.



Special protective equipment for fire- fighters:	As in any fire, wear self-contained positive-pressure breathing apparatus, (MSHA/NIOSH approved or equivalent) and full protective gear.
6. Accidental release measures	
Personal precautions, protective equipment and emergency	Use personal protective equipment. Ensure adequate ventilation.

procedures:	
Accidental release measures:	Remove sources of ignition and ventilate area. Run off may create fire or explosion hazard in sewer. Assure sufficient ventilation.
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).
Environmental Precautions:	Obey relevant local, state, provincial and federal laws and regulations. Do not contaminate any lakes, streams, ponds, groundwater or soil.

# 7. Handling and storage

Handling

Safe handling advice:       Provide good ventilation or extraction. Handle in accordance with good industrial hygiene and safety practice. If workplace exposure limits are exceeded and/or larger amounts are released (leakage, spilling, dust) the indicated possibility of skin/eye contact, the indicated hand/eye/body protection should be used. If there is the possibility of skin/eye contact, the indicated hand/eye/body protection should be used. Use protective clothing / face shield if necessary. Do not breathe in vapours or aerosols. Avoid contact with eyes, skin, and clothing. For personal protection 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.         Netate avoidance measures:       No data available.         Storage       Safe storage conditions:         Safe storage conditions:       Keep containers tightly closed in a cool, well-ventilated place. Protect from moisture. Residual vapor-a might explode on or near this container. 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.         200005044577       US       2024-04-20       00000000004680520		Technical mea general ventila	sures (e.g. Location):	al and	Provide good ventilation or extraction.
Storage         Safe storage conditions:         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.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.         He user must be sure to dissipate static charge by careful 4/12		-			with good industrial hygiene and safety practice. If workplace exposure limits are exceeded and/or larger amounts are released (leakage, spilling, dust) the indicated respiratory protection should be used. If there is the possibility of skin/eye contact, the indicated hand/eye/body protection should be used. Use protective clothing / face shield if necessary. Do not breathe in vapours or aerosols.Avoid contact with eyes, skin, and clothing. For personal protection 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.
Safe storage conditions:       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.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		Contact avoid	ance measures:		No data available.
place. Protect from moisture.Residual vapors might explode on ignition; do not apply heat, cut, drill, grind or weld on or near this container.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 4/12	Sto	orage			
		Safe storage c	onditions:		place. Protect from moisture.Residual vapors might explode on ignition; do not apply heat, cut, drill, grind or weld on or near this container.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
	0000050	44577	US	2024-04-20	



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; dippipes 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 SDS/label precautions even after container is emptied because it may retain product residues.

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**

Provide good ventilation or extraction.

#### Individual protection measures, such as personal protective equipment

Eye/face protection:	Use chemical splash goggles or face shield.
Skin Protection	
Hand Protection:	Material: Butyl rubber.
	Break-through time: >= 480 min
	Material: Fluorinated rubber (Viton)
	Break-through time: >= 480 min
	Additional Information: The above mentioned hand
	protection is based on knowledge of the chemistry and
	anticipated uses of this product but it may not be appropriate
	for all workplaces. A hazard assessment should be
	conducted prior to use to ensure suitability of gloves for
	specific work environments and processes prior to use.,
	Selection of protective gloves to meet the requirements of
	specific workplaces., The suitability for a specific workplace
	should be discussed with the producers of the protective
	gloves., Please observe the instructions regarding
	permeability and breakthrough time which are provided by
	the supplier of the gloves. Also take into consideration the
	specific local conditions under which the product is used,
	such as the danger of cuts, abrasion, and the contact time.,
	Use impermeable gloves.



Skin and Body Protection:	When handling larger quantities: chemical protective suit, disposable protective suit (Solvent-resistant) Safety showers and eye showers should be easily accessible. In order to determine further specifications applicable to the personal protection equipment, a hazard assessment according to the OSHA standards (29 CFR 1910.132) for personal protection equipment (PPE) is recommended before the product is used.
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.
Hygiene measures:	When using, do not eat, drink or smoke. Wash face and/or hands before break and end of work. Take off immediately all contaminated clothing. Wash contaminated clothing before reuse.

# 9. Physical and chemical properties

Information on basic physical and chemi Appearance	cal properties
Physical state:	liquid
Form:	liquid
Color:	colorless to yellowish
Odor:	amine-like
Odor Threshold:	No data available.
Freezing point:	< -292 °F/< -180 °C (OECD 102)
Boiling Point:	396 °F/202 °C (1,013.25 hPa) (DSC)
Flammability:	No data available.
Upper/lower limit on flammability or e	xplosive limits
Explosive limit - upper:	No data available.
Explosive limit - lower:	No data available.
Flash Point:	190 °F/88 °C (DIN EN ISO 2719)
Auto-ignition temperature:	No data available.
Decomposition Temperature:	No data available.
pH:	11 (20 g/l, 20 °C)
Viscosity	
Dynamic viscosity:	2 mPa.s (68 °F/20 °C, DIN 53015)
Kinematic viscosity:	1.78 mm2/s (68 °F/20 °C, OECD 114) 1.25 mm2/s (104 °F/40 °C, OECD 114)
Flow Time:	No data available.
Solubility(ies)	
Solubility in Water:	not miscible decomposition by hydrolysis
Solubility (other):	No data available.
Partition coefficient (n- octanol/water):	2.5 (QSAR)



Vapor pressure:	0.2 - 0.3 hPa (68 °F/20 °C) (OECD 104) static method
Relative density:	No data available.
Density:	0.9136 g/cm3 (68 °F/20 °C) (OECD 109)
Bulk density:	No data available.
Relative vapor density:	No data available.
Other information	
Explosive properties:	Not explosive Vapours may form explosive mixtures with air.
Minimum ignition temperature:	509 °F/265 °C (DIN 51794)
Peroxides:	Not applicable
10. Stability and reactivity	
Reactivity:	No dangerous reaction known under conditions of normal use.
Chemical Stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions:	Exothermic reaction with: acids
Conditions to avoid:	Protect from moisture. Keep away from heat and sources of ignition.
Incompatible Materials:	Water. Acids.
Hazardous Decomposition Products:	Ethanol in case of hydrolysis. Alcohol formed by hydrolysis lowers the flash point of the product.

# 11. Toxicological information

# Information on toxicological effects

# Information on likely routes of exposure

Inhalation:	No data available.
Skin Contact:	No data available.
Eye contact:	No data available.
Ingestion:	No data available.

# Acute toxicity (list all possible routes of exposure)

Oral Product:	LD 50 (Rat, Female, Male): > 2,000 mg/kg (OECD 401)	
Dermal Product:	LD 50 (Rabbit, Female): 2,293 mg/kg (OECD 402)	
Inhalation Product:	Not classified for acute toxicity based on available data.	
Repeated dose toxicity Product:	NOAEL (Rat(Female, Male), Oral, 90 day, daily): 200 mg/kg LOAEL (Rat(Female, Male), Oral, 90 day, daily): 600 mg/kg (Target Organ(s):	
		7/1



	stomach, Liver) (analogy)
Skin Corrosion/Irritation Product:	Corrosive. OECD 404 (Rabbit, < 1 h):
Serious Eye Damage/Eye Irrit Product:	ation Risk of serious damage to eyes. Rabbit:
Respiratory or Skin Sensitiza Product:	tion No data due to skin-corrosive action
Carcinogenicity Product:	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP, IARC, or OSHA.
	Iuation of Carcinogenic Risks to Humans: one present in regulated quantities
ACGIH: US.ACGIH Threshold No carcinogens present or n	Limit Values: one present in regulated quantities
	ram (NTP) Report on Carcinogens: one present in regulated quantities
	ated Substances (29 CFR 1910.1001-1050), as amended: one present in regulated quantities
Germ Cell Mutagenicity	
In vitro Product:	gene mutation test (OECD 471): negative; Chromosomal aberration (OECD 473): positive; gene mutation test (OECD 476): negative; (analogy);
In vivo Product:	Micronucleus test (OECD 474) Intraperitoneal (Mouse, Female, Male): negative; (analogy)
Reproductive toxicity Product: Components:	No data available.
3- (diethoxymethylsilyl)propy lamine	no evidence of reproductiontoxic properties
Specific Target Organ Toxicit Product:	<b>y - Single Exposure</b> No data available.
Specific Target Organ Toxicit Product:	y - Repeated Exposure No data available.
Aspiration Hazard Product:	No evidence of aspiration toxicity
Information on health hazards	
Other hazards	



# 12. Ecological information

# Ec

12. Ecological information	
Ecotoxicity: Acute hazards to the aquatic environment:	
Fish Product:	LC 50 (Danio rerio, 96 h): > 934 mg/l (analogy)
Aquatic Invertebrates Product:	EC 50 (Daphnia magna, 48 h): 331 mg/l (analogy)
Toxicity to Aquatic Plants Product:	EC 50 (Desmodesmus subspicatus (green algae), 72 h): > 1,000 mg/l (OECD 201) (analogy)
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:	67 % (28 d, (DOC; Die Away test - 79/831/EEC part C.4-A)) (analogy), Not readily degradable.
BOD/COD Ratio Product:	No data available.
Bioaccumulative potential	
Bioconcentration Factor (BCF) Product:	) not bioaccumulative
Partition Coefficient n-octanol Product:	<b>/ water (log Kow)</b> Log Kow: 2.5 20 °C (QSAR)
Mobility in soil:	
Product	Adsorption on the floor: low.
Results of PBT and vPvB assess	ment:
Product	No data available.

Other adverse effects:



Other hazards Product:	The data we have at our disposal do not necessitate identification concerning environmental hazard.
13. Disposal considerations	
Disposal methods:	Waste must be disposed of in accordance with federal, provincial, state and local regulations. Empty containers must be handled with care due to product residue. DO NOT HEAT OR CUT THE EMPTY CONTAINER WITH AN ELECTRIC OR GAS TORCH.
Contaminated 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.

# 14. Transport information

# **Domestic regulation**

<b>49 CFR</b> UN/ID/NA number Proper shipping name Class Packing group Labels	<ul> <li>UN 3267</li> <li>Corrosive liquid, basic, organic, n.o.s. (3-Aminopropyl-methyl-diethoxysilane)</li> <li>8</li> <li>II</li> <li>8</li> </ul>
ERG Code Marine pollutant	: 153 : no
International Regulations	
IATA-DGR	
UN/ID No.	: UN 3267
Proper shipping name	<ul> <li>Corrosive liquid, basic, organic, n.o.s. (3-Aminopropyl-methyl-diethoxysilane)</li> </ul>
Class	: 8
Packing group	:
Labels	: 8
Packing instruction (cargo aircraft)	: 855
Packing instruction (passenger aircraft)	: 851
Remarks	: ERG-Code 8L
IMDG-Code	
UN number or ID number	: UN 3267
Proper shipping name	: CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (3-Aminopropyl-methyl-diethoxysilane)
Class	: 8
Packing group	: 11
Labels	: 8
EmS Code	: F-A, S-B
Marine pollutant	: NO
Remarks	: SW2 - Clear of living quarters.Keep separate from acids.
Transport in bulk according	to Annex II of MARPOL 73/78 and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.



# Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

# 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 guantities.

# CERCLA Hazardous Substance List (40 CFR 302.4):

Reportable Quantity not reasonably exceeded.

# Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### **Hazard categories**

Flammable (gases, aerosols, liquids, or solids), Skin Corrosion or Irritation, Serious eye damage or eye irritation

# 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.

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

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)

Reportable Quantity not reasonably exceeded.

#### **US State Regulations**

# **US. California Proposition 65**

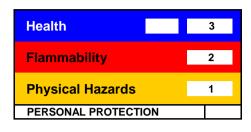
**WARNING:** This product can expose you to chemicals including, Toluene which is [are] known to the State of California to cause birth defects or other reproductive harm.

For more information go to www.P65Warnings.ca.gov.



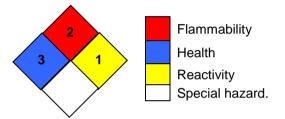
# 16.Other information, including date of preparation or last revision

# **HMIS Hazard ID**



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

# **NFPA Hazard ID**



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

Issue Date:	05/29/2019
Version #:	1.1
Further Information:	No data available.
Revision Information	Changes since the last version are highlighted in the margin. This version replaces all previous versions.
Disclaimer:	This information and any recommendations, technical or otherwise, are presented in good faith and believed to be correct as of the date prepared. Recipients of this information and recommendations must make their own determination as to its suitability for their purposes. In no event shall Evonik assume liability for damages or losses of any kind or nature that result from the use of or reliance upon this information and recommendations. EVONIK EXPRESSLY DISCLAIMS ANY REPRESENTATIONS AND WARRANTIES OF ANY KIND, WHETHER EXPRESS OR IMPLIED, AS TO THE ACCURACY, COMPLETENESS, NON-INFRINGEMENT, MERCHANTABILITY AND/OR FITNESS FOR A PARTICULAR PURPOSE (EVEN IF EVONIK IS AWARE OF SUCH PURPOSE) WITH RESPECT TO ANY INFORMATION AND RECOMMENDATIONS PROVIDED. Reference to any trade names used by other companies is neither a recommendation nor an endorsement of the corresponding product, and does not imply that similar products could not be used. Evonik reserves the right to make any changes to the information and/or recommendations at any time, without prior or subsequent notice.