

# SAFETY DATA SHEET

Classified in accordance with 29 CFR 1910.1200

## 1. Identification

**Product identifier:** Dynasylan® 1124

### Other means of identification

**CAS Number:** 82985-35-1

### 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  
299 Jefferson Road  
Parsippany, NJ 07054  
USA

Telephone : +1 973 929 8000

Fax : +1 973 929 8040

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

Serious Eye Damage/Eye Irritation Category 1

### Label Elements

#### Hazard Symbol:



**Signal Word:** Danger

**Hazard Statement:**

Causes serious eye damage.

**Precautionary Statements**

**Prevention:**

Wear eye protection/face protection.

**Response:**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

**Hazard(s) not otherwise classified (HNOC):**

None.

**3. Composition/information on ingredients**

**Substances**

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%) <sup>*</sup>
Bis(trimethoxysilylpropyl)amine		82985-35-1	>=90 - <=100%

<sup>\*</sup> All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

**Composition information of impurities and stabilizers**

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%) <sup>*</sup>
methanol		67-56-1	>=0.1 - <1%

<sup>\*</sup> 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:**

Take off all contaminated clothing immediately.

**Inhalation:**

If aerosol or mists are formed: Move to fresh air. In case of persistent discomfort: Consult doctor immediately.

**Skin Contact:**

Wash off immediately with plenty of water. Consult a doctor in the event of permanent skin irritation.

**Eye contact:**

With eye held open, thoroughly rinse immediately with plenty of water for at least 10 minutes. Continue rinsing process with eye rinsing solution. Protect unharmed eye. Call ambulance. (Cue: caustic burn of the eyes) Immediate further treatment in eye clinic/by eye doctor. continue rinsing eye until arrival at ophthalmic hospital.

**Ingestion:**

Have the mouth rinsed with water. Only when patient fully conscious: Have patient drink plenty of water in small sips. Call a physician immediately.

**Personal Protection for First-aid Responders:** As in any fire, wear self-contained positive-pressure breathing apparatus, (MSHA/NIOSH approved or equivalent) and full protective gear.

#### Most important symptoms/effects, acute and delayed

**Symptoms:** After absorbing large amounts of substance: Liberation of reaction products (Methanol) can lead to symptoms of poisoning. Possible signs of poisoning: daze, dizziness, nausea, colicky abdominal pain, respiratory disturbance. Symptoms upon increasing intoxication: dysopia, loss of eyesight.

**Hazards:** None known.

#### Indication of immediate medical attention and special treatment needed

**Treatment:** If required, therapy of irritative effect. Treatment Early endoscopy in order to assess mucosa lesions in the oesophagus and stomach which may appear. If necessary, aspirate leftover substance. Detection of substance (Methanol) possible in: Blood Antidote treatment: ethanol.

### 5. Fire-fighting measures

#### Suitable (and unsuitable) extinguishing media

**Suitable extinguishing media:** Use water spray or fog, foam, dry chemical or CO<sub>2</sub>.

**Unsuitable extinguishing media:** High volume water jet.

**Specific hazards arising from the chemical:** Hazardous fumes in fires, specific to the product: Nitrogen Oxides

#### Special protective equipment and precautions for firefighters

**Special fire fighting procedures:** No data available.

**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 procedures:** Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin and eyes.

**Methods and material for containment and cleaning up:** Soak up with absorbent material, e.g., sand, silica gel, acid binder, universal binder or sawdust. Place in a marked, sealable container and dispose of in accordance with existing federal, provincial, state and local regulations.

**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**

- Technical measures (e.g. Local and general ventilation):** Provide for good ventilation if vapors/aerosols are formed.
- Safe handling advice:** Provide good ventilation or extraction.
- Contact avoidance measures:** No data available.
- 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.

**Storage**

- Safe storage conditions:** Take precautionary measures against static charges, keep away from sources of ignition. Explosion protection equipment is required. Keep containers tightly closed in a cool, well-ventilated place. Protect from moisture.
- Safe packaging materials:** No data available.
- Storage Temperature:** No data available.

**8. Exposure controls/personal protection**

**Control Parameters**

**Occupational Exposure Limits**

Chemical Identity	Type	Exposure Limit Values	Source
methanol	TWA	200 ppm	US. ACGIH Threshold Limit Values, as amended (03 2016)
	STEL	250 ppm	US. ACGIH Threshold Limit Values, as amended (03 2016)
	STEL	250 ppm      325 mg/m <sup>3</sup>	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2010)
	REL	200 ppm      260 mg/m <sup>3</sup>	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2010)
	PEL	200 ppm      260 mg/m <sup>3</sup>	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (03 2016)

Please refer to the latest edition of the appropriate source text and consult an industrial hygienist or similar professional, or local agencies, for further information.

Hazardous components without workplace control parameters

- Appropriate Engineering Controls** Provide for good ventilation if vapors/aerosols are formed.

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

- Eye/face protection:** Wear safety glasses with side shields.

**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., Suitability for specific workplaces should be clarified with protective glove manufacturers., Use impermeable gloves.

**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.

**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.

**9. Physical and chemical properties**
**Appearance**

<b>Physical state:</b>	liquid
<b>Form:</b>	liquid
<b>Color:</b>	colourless to yellow
<b>Odor:</b>	amine-like
<b>Odor Threshold:</b>	No data available.
<b>pH:</b>	No data available.
<b>Freezing point:</b>	< -38.0 °C (ISO 3841)
<b>Boiling Point:</b>	285.0 - 288.0 °C (1,013 hPa) (ASTM D-1120)
<b>Flash Point:</b>	> 100 °C (DIN EN ISO 2719 (Pensky-Martens, Closed Cup))
<b>Evaporation Rate:</b>	No data available.
<b>Flammability (solid, gas):</b>	not flammable
<b>Explosive limit - upper:</b>	No data available.
<b>Explosive limit - lower:</b>	No data available.
<b>Vapor pressure:</b>	0.1 hPa (20 °C) (ASTM D 2879-86)
<b>Relative vapor density:</b>	No data available.
<b>Density:</b>	1.04 g/cm <sup>3</sup> (20 °C) (DIN 51757)
<b>Relative density:</b>	No data available.
<b>Solubility in Water:</b>	No data available.
<b>Solubility (other):</b>	No data available.
<b>Partition coefficient (n-octanol/water):</b>	No data available.
<b>Self Ignition Temperature:</b>	270 °C (EEC method 92/69/EEC, A 15)
<b>Decomposition Temperature:</b>	No data available.

<b>Kinematic viscosity:</b>	5.7 mm <sup>2</sup> /s (20 °C)
<b>Dynamic viscosity:</b>	6.5 mPa.s (20 °C, DIN 53 015)
<b>Other information</b>	
<b>Explosive properties:</b>	not explosive
<b>Oxidizing properties:</b>	No data available.
<b>Minimum ignition temperature:</b>	Not determined.
<b>Peroxides:</b>	Not applicable

## 10. Stability and reactivity

<b>Reactivity:</b>	No dangerous reaction known under conditions of normal use.
<b>Chemical Stability:</b>	Stable under recommended storage conditions.
<b>Possibility of hazardous reactions:</b>	No dangerous reactions known.
<b>Conditions to avoid:</b>	Protect from moisture.
<b>Incompatible Materials:</b>	Alcohols. alkalis. Acids. humid air and water
<b>Hazardous Decomposition Products:</b>	Methanol in case of hydrolysis. Alcohol formed by hydrolysis lowers the flash point of the product.

## 11. Toxicological information

### Information on likely routes of exposure

<b>Inhalation:</b>	No data available.
<b>Skin Contact:</b>	No data available.
<b>Eye contact:</b>	No data available.
<b>Ingestion:</b>	No data available.

### Symptoms related to the physical, chemical and toxicological characteristics

<b>Inhalation:</b>	No data available.
<b>Skin Contact:</b>	No data available.
<b>Eye contact:</b>	No data available.
<b>Ingestion:</b>	No data available.

### Information on toxicological effects

#### Acute toxicity (list all possible routes of exposure)

<b>Oral</b>	
<b>Product:</b>	LD 50 (Rat): > 2,000 mg/kg
<b>Dermal</b>	
<b>Product:</b>	LD 50 (Rat): 16,640 mg/kg LD 50 (Rat): 11,752 mg/kg

**Inhalation**

**Product:** Not classified for acute toxicity based on available data.

**Repeated dose toxicity**

**Product:** No data available.

**Skin Corrosion/Irritation**

**Product:** Not irritating OECD 404 (Rabbit): Not irritating

**Serious Eye Damage/Eye Irritation**

**Product:** Risk of serious damage to eyes. Rabbit: Risk of serious damage to eyes.

**Respiratory or Skin Sensitization**

**Product:** Maximization Test, OECD 406 (Guinea Pig): Not a skin sensitizer.

**Carcinogenicity**

**Product:** Contains no carcinogenic substances as defined by NTP, IARC and/or OSHA.

**IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:**

No carcinogens present or none present in regulated quantities

**US. National Toxicology Program (NTP) Report on Carcinogens:**

No carcinogens present or none present in regulated quantities

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended:**

No carcinogens present or none present in regulated quantities

**Germ Cell Mutagenicity**

**In vitro**

**Product:** no evidence of mutagenic effects

**In vivo**

**Product:** No data available.

**Components:**

methanol

Micronucleus test Intraperitoneal (Mouse, male and female): negative  
Chromosomal aberration (OECD 474) Intraperitoneal (Mouse, male and female): negative

**Reproductive toxicity**

**Product:** No data available.

**Components:**

Bis(trimethoxysilylpropyl)  
amine

No evidence of effects of reproductive / developmental toxicity.

**Specific Target Organ Toxicity - Single Exposure**

**Product:** No data available.

**Components:**

methanol

optic nerve, Central nervous system. - Category 1 Causes damage to organs.

**Specific Target Organ Toxicity - Repeated Exposure**

**Product:** No data available.

**Aspiration Hazard**

**Product:** No evidence of aspiration toxicity

**Other effects:** No data available.

**12. Ecological information**

**Ecotoxicity:**

**Acute hazards to the aquatic environment:**

**Fish**

**Product:** LC 50 (Oncorhynchus mykiss, 96 h): 130 mg/l  
NOEC (Oncorhynchus mykiss, 96 h): 100 mg/l

**Aquatic Invertebrates**

**Product:** EC 50 (Daphnia magna, 48 h): > 100 mg/l

**Toxicity to Aquatic Plants**

**Product:** EC 50 (Desmodesmus subspicatus (green algae), 72 h): > 100 mg/l (OECD 201)

**Specified substance(s):**

Bis(trimethoxysilylpropyl) amine EC 50 (Desmodesmus subspicatus (green algae), 72 h): > 100 mg/l (OECD 201)  
methanol EC 50 (Selenastrum capricornutum (green algae), 96 h): Approximate 22,000 mg/l (OECD 201) literature

**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.

**Specified substance(s):**

Bis(trimethoxysilylpropyl) amine No data available.  
methanol No data available.

**Persistence and Degradability**

**Biodegradation**

**Product:** 11 - 20 % (28 d, OECD 301 D)

**BOD/COD Ratio**

**Product:** No data available.



**Bioaccumulative potential**

**Bioconcentration Factor (BCF)**

**Product:** not bioaccumulative

**Partition Coefficient n-octanol / water (log Kow)**

**Product:** No data available.

**Components:**

methanol Log Kow: -0.77

**Mobility in soil:** Adsorption on the floor: low.

**Other adverse effects:** No data available.

**13. Disposal considerations**

**Disposal methods:** Waste must be disposed of in accordance with federal, state and local regulations. Incineration is the preferred method.

**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**

**49 CFR**

Not regulated as a dangerous good

Remarks : Not dangerous according to transport regulations.

**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.

**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 quantities.

**CERCLA Hazardous Substance List (40 CFR 302.4):**

**Chemical Identity**

METHANOL

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories**

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. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required**

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)**

None present or none present in regulated quantities.

**US State Regulations**

**US. California Proposition 65**



**WARNING:** This product can expose you to chemicals including, methanol 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](http://www.P65Warnings.ca.gov).

**US. New Jersey Worker and Community Right-to-Know Act**

No ingredient regulated by NJ Right-to-Know Law present.

**US. Massachusetts RTK - Substance List**

No ingredient regulated by MA Right-to-Know Law present.

**US. Pennsylvania RTK - Hazardous Substances**

No ingredient regulated by PA Right-to-Know Law present.

**US. Rhode Island RTK**

No ingredient regulated by RI Right-to-Know Law present.

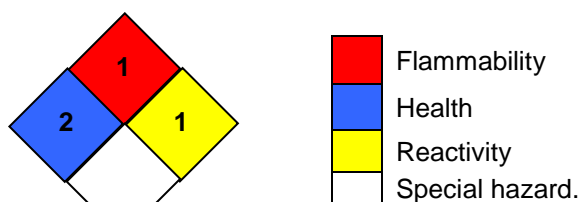
**16. Other information, including date of preparation or last revision**

**HMIS Hazard ID**

<b>Health</b>	3
<b>Flammability</b>	1
<b>Physical Hazards</b>	1
<b>PERSONAL PROTECTION</b>	

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:** 08/21/2020

**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.