

# SAFETY DATA SHEET

Classified in accordance with 29 CFR 1910.1200

## 1. Identification

**Product identifier:** Dynasylan® HYDROSIL 1151**Other means of identification**

None.

**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**

Not classified

**Label Elements****Hazard Symbol:** No symbol**Signal Word:** No signal word.**Hazard Statement:** Not applicable**Precautionary Statements****Hazard(s) not otherwise classified (HNOC):** None.

## 3. Composition/information on ingredients

## Mixtures

**Composition Comments:** aqueous oligomeric aminoalkylfunctional silane hydrolysate

**Composition Comments:** The components are not hazardous or are below required disclosure limits.

## 4. First-aid measures

### 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:** Rinse thoroughly with plenty of water keeping eyelid open. In case of persistent discomfort: Consult an ophthalmologist.

**Ingestion:** Have the mouth rinsed with water. After absorbing large amounts of substance / In case of discomfort: Supply with medical care.

**Personal Protection for First-aid Responders:** No data available.

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

**Symptoms:** None known.

**Hazards:** None known.

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

**Treatment:** After absorbing large amounts of substance: administration of activated charcoal. Acceleration of gastrointestinal passage

## 5. Fire-fighting measures

### Suitable (and unsuitable) extinguishing media

**Suitable extinguishing media:** Water spray, foam, dry powder or carbon dioxide.

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

**Special hazards arising from the substance or mixture:** Burning will produce hazardous compounds including oxides of: carbon. Nitrogen

### Special protective equipment and precautions for firefighters

<b>Special fire fighting procedures:</b>	No data available.
<b>Special protective equipment for fire-fighters:</b>	In case of fire: wear a self contained respiratory apparatus. As in any fire, wear self-contained positive-pressure breathing apparatus, (MSHA/NIOSH approved or equivalent) and full protective gear.

## 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures:</b>	Use personal protective equipment.
<b>Accidental release measures:</b>	No data available.
<b>Methods and material for containment and cleaning up:</b>	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.
<b>Environmental Precautions:</b>	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

<b>Technical measures:</b>	No data available.
<b>Local/Total ventilation:</b>	Provide adequate ventilation.
<b>Safe handling advice:</b>	Assure sufficient ventilation. 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 respiratory protection should be used. If there is the possibility of skin/eye contact, the indicated hand/eye/body protection should be used. Do not breathe in vapours or aerosols. Avoid contact with skin and eyes. 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.
<b>Contact avoidance measures:</b>	No data available.

### Storage

<b>Safe storage conditions:</b>	Keep tightly sealed in original packing. Protect from frost.
<b>Safe packaging materials:</b>	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 adequate ventilation.

**Individual protection measures, such as personal protective equipment (PPE)****Eye/face protection:**

Use chemical splash goggles or face shield.

**Skin Protection****Hand Protection:**

Material: Butyl rubber.

Break-through time:  $\geq$  480 min

Material: Fluorinated rubber (Viton)

Break-through time:  $\geq$  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., The suitability for a specific workplace should be discussed with the producers of the protective gloves., Selection of protective gloves to meet the requirements of specific workplaces., Use impermeable gloves.

**Skin and Body Protection:**

suitable protective clothing

**Respiratory Protection:**

In case of dusts/vapours/aerosols being formed or if the limit values like TLV are exceeded: use respiratory equipment with suitable filter (filter type ABEK) or wear a self contained respiratory apparatus Use only respiratory protection equipment with CE-symbol including four digit test number. The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapor/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used. Note time limit for wearing respiratory protective equipment. 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:**

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. Wash contaminated clothing before reuse.

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

<b>Physical state:</b>	liquid
<b>Form:</b>	liquid
<b>Color:</b>	colorless to yellowish
<b>Odor:</b>	amine-like
<b>Odor Threshold:</b>	No data available.
<b>Freezing point:</b>	27 °F/ -3 °C Method: DSC
<b>Boiling Point:</b>	210 °F/99 °C at 1,013 hPa Method: DIN 51751
<b>Flammability:</b>	No data available.

**Upper/lower limit on flammability or explosive limits**

<b>Explosive limit - upper:</b>	No data available.
<b>Explosive limit - lower:</b>	No data available.
<b>Flash Point:</b>	>= 203 °F/>= 95 °C Method: DIN EN ISO 2719
<b>Auto-ignition temperature:</b>	> 1202 °F/> 650 °C Method: DIN 51794
<b>Decomposition Temperature:</b>	No data available.
<b>pH:</b>	11 - 11.4 at 68 °F/20 °C Method: DIN 19268

**Viscosity**

<b>Dynamic viscosity:</b>	< 10 mPa.s at 68 °F/20 °C Method: DIN 53015
<b>Kinematic viscosity:</b>	No data available.
<b>Flow Time:</b>	No data available.

**Solubility(ies)**

<b>Solubility in Water:</b>	miscible
<b>Solubility (other):</b>	No data available.

<b>Partition coefficient (n-octanol/water):</b>	Approximate -0.5 Method: calculated
---	---

<b>Vapor pressure:</b>	< 1 Pa at 68 °F/20 °C Method: calculated active substance
------------------------	---

<b>Relative density:</b>	No data available.
--------------------------	--------------------

<b>Density:</b>	Approximate 1.06 g/cm <sup>3</sup> at 68 °F/20 °C Method: DIN 51757
-----------------	---

<b>Bulk density:</b>	No data available.
----------------------	--------------------

<b>Relative vapor density:</b>	No data available.
--------------------------------	--------------------

**Other information**

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 frost. Keep away from heat.

Incompatible Materials: Acids.

Hazardous Decomposition Products: Not known.

**11. Toxicological information****Information on likely routes of exposure**

Inhalation: Information on effects are given below.

Skin Contact: Information on effects are given below.

Eye contact: Information on effects are given below.

Ingestion: Information on effects are given below.

**Acute toxicity (list all possible routes of exposure)****Oral**

Product: LD 50, Rat, &gt; 2,000 mg/kg, OECD 401, Not toxic after single exposure

**Dermal**

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

**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)

**Serious Eye Damage/Eye Irritation**

Product: Not irritating, OECD 405, Rabbit

**Respiratory or Skin Sensitization**

Product: No data available.

**Carcinogenicity**

Product: An Expert Judgment stated that no classification is necessary based on present knowledge. To our knowledge, 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.

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

No carcinogens present or none present in regulated quantities

**ACGIH: US.ACGIH Threshold Limit Values:**

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 1910.1001-1053), as amended:**

No carcinogens present or none present in regulated quantities

**Germ Cell Mutagenicity****In vitro****Product:** No data available.**In vivo****Product:** No data available.**Reproductive toxicity****Product:** No data available.**Specific Target Organ Toxicity - Single Exposure****Product:** Not classified based on available information.**Specific Target Organ Toxicity - Repeated Exposure****Product:** Not classified based on available information.**Aspiration Hazard****Product:** No evidence of aspiration toxicity**Information on health hazards****Other hazards****Product:** No data available.**12. Ecological information****Ecotoxicity:****Acute hazards to the aquatic environment:****Fish****Product:** LC 0, Brachydanio rerio (zebrafish), 96 h, > 934 mg/IOECD 203, (analogy)**Aquatic Invertebrates****Product:** EC 50, Daphnia magna, 48 h, 331 mg/IOECD 202, (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:** EC 10, Pseudomonas putida, 5.75 h, 13 mg/l, DIN EN ISO 10712, (analogy)**Chronic hazards to the aquatic environment:**

**Fish****Product:** No data available.**Aquatic Invertebrates****Product:** No data available.**Toxicity to microorganisms****Product:** EC 10, Pseudomonas putida, 5.75 h, 13 mg/l, DIN EN ISO 10712, (analogy)**Persistence and Degradability****Biodegradation****Product:** 8 %, 28 d, OECD 301 A, Not readily degradable.**BOD/COD Ratio****Product:** No data available.**Bioaccumulative potential****Bioconcentration Factor (BCF)****Product:** No data available.**Partition Coefficient n-octanol / water (log Kow)****Product:** Approximate, -0.5, calculated**Mobility in soil:****Product:** No data available.**Results of PBT and vPvB assessment:****Product:** No data available.**Other adverse effects:****Other hazards****Product:** The data we have at our disposal do not necessitate identification concerning environmental hazard.**Additional Information:** No ecotoxicological studies are available on the mixture.**13. Disposal considerations****Disposal methods:**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.****Contaminated Packaging:**

Packaging, that can not be reused after cleaning must be disposed or recycled in accordance with all federal, national and local regulations. 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 (on the basis of current knowledge of the product composition).

**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 (on the basis of current knowledge of the product composition).

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as amended**

None present or none present in regulated quantities (on the basis of current knowledge of the product composition).

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

None present or none present in regulated quantities (on the basis of current knowledge of the product composition).

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

Not classified

**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 (on the basis of current knowledge of the product composition).

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

None present or none present in regulated quantities (on the basis of current knowledge of the product composition).

### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities (on the basis of current knowledge of the product composition).

### Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities (on the basis of current knowledge of the product composition).

### US State Regulations

#### US. California Proposition 65

No ingredient requiring a warning under CA Prop 65.

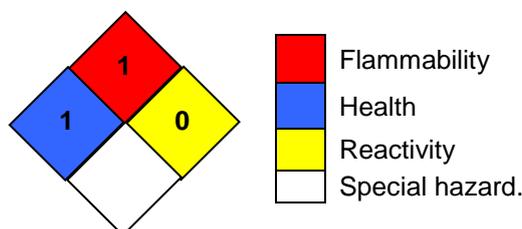
### 16. Other information, including date of preparation or last revision

#### HMIS Hazard ID

<b>Health</b>	1
<b>Flammability</b>	1
<b>Physical Hazards</b>	0
<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

**Version #:** 1.5

**Generation date:** 01/10/2025

**Date of first report version:** 03/22/2019

#### Abbreviations and acronyms:

AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate

associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

**Further Information:** No data available.

**Revision Information** Significant 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.