

SAFETY DATA SHEET

Classified in accordance 29 CFR 1910.1200

1. Identification

Product identifier: Dynasylan® HYDROSIL 2926

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
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USA

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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

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%) [*]
methanol		67-56-1	>=0.1 - <0.5%

^{*} All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Composition Comments: aqueous oligomeric hydroxy-functional silane hydrolysate

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

The exact concentration has been withheld as a trade secret.

4. First-aid measures

Description of necessary 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
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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: Standard procedure for chemical fires.

Special protective equipment and precautions for fire-fighters

- Special fire-fighting procedures:** 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 procedures:** Use personal protective equipment.
- Accidental release measures:** No data available.
- Methods and material for containment and cleaning up:** Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Transfer into suitable containers. To be disposed of in compliance with existing 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 vapours/aerosols are formed.
- Safe handling advice:** Ensure adequate ventilation.
- Contact avoidance measures:** No data available.

Storage

- Safe storage conditions:** Normal measures for preventive fire protection. Keep tightly sealed in original packing. Protect from frost. Keep containers tightly closed in a cool, well-ventilated place.
- Safe packaging materials:** 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/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2010)

	REL	200 ppm	260 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2010)
	PEL	200 ppm	260 mg/m3	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.

None of the components have assigned exposure limits.

Biological Limit Values

No biological exposure limits noted for the ingredient(s).

Appropriate Engineering Controls

Provide for good ventilation if vapours/aerosols are formed.

Individual protection measures, such as personal protective equipment

Eye/face protection:

Use chemical splash goggles or face shield.

Skin Protection

Hand Protection:

Additional Information: Use impermeable gloves.

Skin and Body Protection:

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. Immediately remove contaminated clothing. Wash contaminated clothing before reuse.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance

Physical state:	liquid
Form:	liquid
Color:	Colorless
Odor:	Odorless
Odor Threshold:	No data available.
Freezing point:	No data available.
Boiling Point:	212 °F/100 °C (1,013 hPa) (ASTM D-1120) tested substance: Water.

Flammability:	No data available.
Upper/lower limit on flammability or explosive limits	
Explosive limit - upper:	No data available.
Explosive limit - lower:	No data available.
Flash Point:	>= 203 °F/>= 95 °C (DIN EN ISO 2719)
Self Ignition Temperature:	No data available.
Decomposition Temperature:	No data available.
pH:	2.5 - 3.0 (DIN 19268) (20 °C)
Viscosity	
Dynamic viscosity:	< 10 mPa.s (68 °F/20 °C, DIN 53015)
Kinematic viscosity:	No data available.
Flow Time:	No data available.
Solubility(ies)	
Solubility in Water:	miscible
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Vapor pressure:	25 hPa (68 °F/20 °C)
Relative density:	No data available.
Density:	1.091 g/cm ³ (68 °F/20 °C) (DIN 51757)
Bulk density:	No data available.
Relative vapor density:	No data available.

Other information

Peroxides:	Not applicable
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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:	No dangerous reactions known.
Conditions to avoid:	Protect from frost.
Incompatible Materials:	None known.
Hazardous Decomposition Products:	None known.

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: No data available.

Dermal

Product: No data available.

Inhalation

Product: No data available.

Repeated dose toxicity

Product: No data available.

Skin Corrosion/Irritation

Product: No data available.

Components:
methanol (Rabbit): Not irritating

Serious Eye Damage/Eye Irritation

Product: No data available.

Components:
methanol Not irritating Rabbit:

Respiratory or Skin Sensitization

Product: No data available.

Components:
methanol Maximization Test, OECD 406 (Guinea Pig): Not a skin sensitizer.
Not a respiratory sensitizer

Carcinogenicity

Product: No data available.

Components:
methanol Not classified

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 1910.1001-1050), as amended:

No carcinogens present or none present in regulated quantities

Germ Cell Mutagenicity

In vitro

Product: Ames test (OECD 471): negative;

In vivo

Product: No data available.

Components:

methanol Micronucleus test (OECD 474) Intraperitoneal (Mouse, Female, Male):
 negative
 Chromosomal aberration Intraperitoneal (Mouse, Female, Male): negative

Reproductive toxicity

Product: No data available.
Components:
 methanol Not classified

Specific Target Organ Toxicity - Single Exposure

Product: No data available.
Components:
 methanol Dermal Oral Inhalation - vapor: optic nerve, Central nervous system. -
 Category 1 Causes damage to organs.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.
Components:
 methanol Not classified

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: No data available.
Components:
 methanol LC 50 (Bluegill Sunfish, 96 h): 15,400 mg/l Literature

Aquatic Invertebrates

Product: No data available.
Components:
 methanol EC 50 (Daphnia magna, 96 h): 18,260 mg/l Literature

Toxicity to Aquatic Plants

Product: No data available.
Components:
 methanol EC 50 (Selenastrum capricornutum (green algae), 96 h): Approximate
 22,000 mg/l (OECD 201) Literature

Toxicity to microorganisms

Product: No data available.

Chronic hazards to the aquatic environment:
Fish

Product: No data available.

Aquatic Invertebrates

Product: No data available.

Product name: Dynasylan® HYDROSIL 2926

Toxicity to Aquatic Plants**Product:** No data available.**Toxicity to microorganisms****Product:** No data available.**Persistence and Degradability****Biodegradation****Product:** No data available.**Components:**

methanol

98 % (28 d, (DOC; modif. OECD screening test / OECD 301 E)) Own study
The product is easily biodegradable., aerobic**BOD/COD Ratio****Product:** No data available.**Bioaccumulative potential****Bioconcentration Factor (BCF)****Product:** No data available.**Components:**

methanol

Leuciscus idus (Golden orfe), Bioconcentration Factor (BCF): < 10
(Measured) No significant bioaccumulation.**Partition Coefficient n-octanol / water (log Kow)****Product:** No data available.**Components:**

methanol

Log Kow: -0.77

Mobility in soil:**Product**

No data available.

Components:

methanol

soil - Log Koc: 1 (calculated) Not expected to adsorb on soil.

Results of PBT and vPvB assessment:**Product**

No data available.

Other adverse effects:**Other hazards****Product:**An Expert Judgment stated that no classification is necessary
based on present knowledge.**Additional Information:**

No ecotoxicological data is available for this product.

13. Disposal considerations**Disposal methods:**Waste must be disposed of in accordance with federal, state, provincial
and local regulations.**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.

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
FORMIC ACID**Chemical Identity**METHANOL
FORMIC ACID**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.

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)
Chemical Identity

FORMIC ACID

Chemical Identity

FORMIC ACID

US State Regulations
US. California Proposition 65

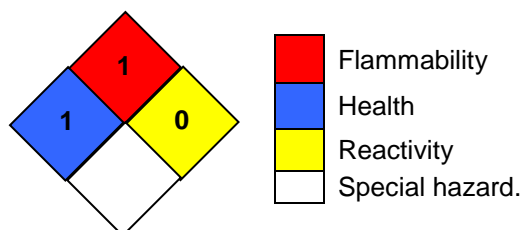

WARNING: This product can expose you to chemicals including, methanol which is [are] known to the State of California to cause birth defects or other reproductive harm.

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

16. Other information, including date of preparation or last revision
HMIS Hazard ID

Health	1
Flammability	1
Physical Hazards	0
PERSONAL PROTECTION	

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: 06/03/2019

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.

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