

SAFETY DATA SHEET

Classified in accordance with 29 CFR 1910.1200

1. Identification

Product identifier: Dynasylan® OCTMO

Other means of identification

CAS Number: 3069-40-7

Recommended restrictions

Recommended use: For industrial use Surface modifier Raw material

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

Health Hazards

Skin Corrosion/Irritation

Category 2

Label Elements

Hazard Symbol:



Signal Word:

Warning

Hazard Statement:

Causes skin irritation.

Product name: Dynasylan® OCTMO

Precautionary Statements**Prevention:** Wash thoroughly after handling. Wear protective gloves.**Response:** IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.**Hazard(s) not otherwise classified (HNOC):** None.**3. Composition/information on ingredients****Substances**

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%) [*]
Trimethoxyoctylsilane		3069-40-7	100%

^{*} 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 (%) [*]
methanol		67-56-1	<0.2%

^{*} All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.**Composition Comments:** A specific chemical identity and/or percentage of composition has been withheld as a trade secret.

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:** Keeping eyelid open, immediately rinse thoroughly for at least 5 minutes using plenty of water or, if necessary, eye rinsing solution. In case of persistent discomfort: Consult an ophthalmologist.**Ingestion:** Have the mouth rinsed with water. 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: If large amount of substance is absorbed, liberation of reaction product (methanol) can lead to symptoms of poisoning. Possible signs of poisoning include daze, dizziness, nausea, colicky abdominal pain or respiratory disturbance. Symptoms of increasing intoxication include dysopia or loss of eyesight. Treatment may include immediate gastric lavage, antidote treatment or correction of acid-base balance. Detection of the substance (methanol) is possible in blood. Evidence shows that the treatment of methanol absorption is enhanced through the administration of ethanol, which should be given to produce a blood level of at least 0.1%. Ethanol diminishes the production of toxic metabolites of methanol. Obtain treatment of allergic reaction if necessary.

Hazards: No data available.

Indication of immediate medical attention and special treatment needed

Treatment: None known.

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.

Specific hazards arising from the chemical: Standard procedure for chemical fires.

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.

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. Ensure adequate ventilation.

Methods and material for containment and cleaning up: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Fill into marked, sealable 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 good ventilation or extraction.
Safe handling advice:	Provide good ventilation or extraction.
Contact avoidance measures:	No data available.
Hygiene measures:	When using, do not eat, drink or smoke. Wash face and/or hands before break and end of work. Remove contaminated or saturated clothing. Wash contaminated clothing before reuse.

Storage

Safe storage conditions:	The product has an intermediate conductivity (static conductivity 100-10,000 pS/m) Liquids with a low conductivity (static conductivity < 100 pS/m) or intermediate conductivities (static conductivity 100 pS/m - 10,000 pS/m) might become electrostatically charged and thus present potential sources ignition. Germany: Technical Rules for Hazardous Substances - Prevention of the Risk of Ignition as a Result of Electrostatic Charges EU: NFPA 77, Recommended Practice on Static Electricity Normal measures for preventive fire protection. Keep away from sources of ignition - No smoking. Keep containers tightly closed in a cool, well-ventilated place. Protect from moisture. Bases.
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 ³	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2010)
	REL	200 ppm 260 mg/m ³	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2010)
	PEL	200 ppm 260 mg/m ³	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 good ventilation or extraction.
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Individual protection measures, such as personal protective equipment

Eye/face protection: Safety glasses

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: When handling larger quantities: chemical protective suit, disposable protective suit (Solvent-resistant) 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

Physical state:	liquid
Form:	liquid
Color:	colourless
Odor:	like fruit
Odor Threshold:	No data available.
pH:	No data available.
Freezing point:	-66 °C (EC Method A.1)
Boiling Point:	246 °C (1,013 hPa) (DIN 51751)
Flash Point:	102 °C (DIN EN ISO 2719 (Pensky-Martens, Closed Cup))
Evaporation Rate:	No data available.
Flammability (solid, gas):	No data available.
Explosive limit - upper:	No data available.
Explosive limit - lower:	No data available.
Vapor pressure:	3 hPa (20 °C) Product 2.1 Pa (20 °C) (dynamic method) pure substance 52.4 hPa (140 °C) (dynamic method) pure substance
Vapor density (air=1):	No data available.

Product name: Dynasylan® OCTMO

Density:	Approximate 0.91 g/cm ³ (20 °C)
Relative density:	0.91 (20 °C) (EC Method A.3)
Solubility in Water:	not miscible decomposition by hydrolysis
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	3.9
Self Ignition Temperature:	225 °C (EC Method A.15)
Decomposition Temperature:	No data available.
Kinematic viscosity:	No data available.
Dynamic viscosity:	2 mPa.s (20 °C, DIN 53 015)
Other information	
Explosive properties:	not explosive
Oxidizing properties:	No data available.
Minimum ignition temperature:	225 °C (1,013 hPa, DIN 51 794)
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:	No dangerous reactions known.
Conditions to avoid:	Protect from moisture.
Incompatible Materials:	alkalis. Acids. humid air and water
Hazardous Decomposition Products:	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

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

Symptoms related to the physical, chemical and toxicological characteristics

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

Information on toxicological effects**Acute toxicity (list all possible routes of exposure)****Oral****Product:** LD 50 (Rat): > 2,000 mg/kg**Dermal****Product:** No data available.**Inhalation****Product:** LC 50 (Rat): 3.9 mg/l Dusts, mists and fumes
Toxicity data on aerosol inhalation are not relevant in the sense of a transport goods hazard.**Repeated dose toxicity****Product:** NOAEL (Rat, Oral): 150 mg/kg tested substance: Structurally similar substance
NOAEC (Rat, inhalative, 5 days/weeks, 6 hours/day): 3000 mg/m³ tested substance: Structurally similar substance**Skin Corrosion/Irritation****Product:** Irritating. OECD 404 (Rabbit): Irritating.**Serious Eye Damage/Eye Irritation****Product:** Not irritating Rabbit: Not irritating**Respiratory or Skin Sensitization****Product:** Maximization Test, OECD 406 (Guinea Pig): Non sensitising tested substance: Structurally similar substance**Carcinogenicity****Product:** No evidence that cancer may be caused.**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: Ames test (OECD 471): negative
Chromosomal aberration (OECD 473): negative tested substance:
Structurally similar substance
gene mutation test (OECD 476): negative tested substance: Structurally
similar substance

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 evidence of reproductiontoxic properties

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): > 100 mg/l

Aquatic Invertebrates

Product: (Daphnia magna): In the range of water solubility not toxic under test
conditions.

Toxicity to Aquatic Plants

Product: EC 50 (Algae (Pseudokirchneriella subcapitata), 72 h): > 100 mg/l (OECD
201) tested substance: Structurally similar substance

Specified substance(s):

Trimethoxyoctylsilane
EC 50 (Algae (Pseudokirchneriella subcapitata), 72 h): > 100 mg/l (OECD
201) tested substance: Structurally similar substance

Product name: Dynasylan® OCTMO

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:** NOEC (Daphnia magna, 21 d): 32 mg/l tested substance: Structurally similar substance**Toxicity to Aquatic Plants****Product:** No data available.**Specified substance(s):**Trimethoxyoctylsilane No data available.
methanol No data available.**Persistence and Degradability****Biodegradation****Product:** 31.5 % (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:** Log Kow: 3.9 25 °C**Mobility in soil:**

Adsorption on the floor: low.

Other adverse effects:

No ecotoxicological studies are 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

Skin Corrosion or 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.

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

Health	2
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

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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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