

SAFETY DATA SHEET

Classified in accordance 29 CFR 1910.1200

1. Identification

Product identifier: Dynasylan® MEMO

Chemical name: 3-Trimethoxysilylpropyl methacrylate

Other means of identification	
CAS Number:	2530-85-0

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
Ē	nergency telephone no 24-Hour Health	umber: · +1 800 424 9300 (CHEMTREC - US & CANADA

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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

Chemical name:

3-Trimethoxysilylpropyl methacrylate

Substances

Chemical Identity	CAS number	Content in percent (%)*
3-Trimethoxysilylpropyl methacrylate	2530-85-0	>=98%

All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

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:	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:	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 Carbon Dioxide. dry powder		
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

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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.	
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):	Application, processing: Provide good ventilation or extraction.	
Safe handling advice:	Provide good ventilation or extraction.	
Contact avoidance measures:	No data available.	
Hygiene measures:	Avoid contact with eyes, skin, and clothing. Do not inhale vapors / aerosol. Remove contaminated or saturated clothing.	
Storage		
Safe storage conditions: Keep containers tightly closed in a cool, well-ventilated place. Protect theat and exposure to direct sunlight Protect from moisture.Normal measures for preventive fire protection.		
Safe packaging materials:	No data available.	
8. Exposure controls/personal pro	otection	
Control Parameters		
Occupational Exposure Limit	ts	
	None of the components have assigned exposure limits.	
Appropriate Engineering Controls	Application, processing: 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: >= 120 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.
Hygiene measures:	Avoid contact with eyes, skin, and clothing. Do not inhale vapors / aerosol. Remove contaminated or saturated clothing.

9. Physical and chemical properties

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Appearance	
Physical state:	liquid
Form:	liquid
Color:	colourless to yellowish
Odor:	slightly aromatic
Odor Threshold:	not determined
pH:	not determined
Freezing point:	< -20 °C
Boiling Point:	255 °C (1,013 hPa) (DIN 51 356)
Flash Point:	110 °C (DIN EN ISO 2719 (Pensky-Martens, Closed Cup))
Evaporation Rate:	not determined
Flammability (solid, gas):	No data available.
Explosive limit - upper (%):	5.4 %(V)
Explosive limit - lower (%):	0.9 %(V)
Vapor pressure:	< 0.1 hPa (20 °C)
Vapor density (air=1):	No data available.
Density:	1.04 g/cm3 (20 °C) (DIN 51757)
Relative density:	No data available.
Solubility(ies)	
Solubility in Water:	not miscible decomposition by hydrolysis
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	2.1 (OECD TG 107)
Self Ignition Temperature:	275 °C (EC Method A.15)
Decomposition Temperature:	not determined
Kinematic viscosity:	No data available.
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Dynamic viscosity:

2.8 mPa.s (20 °C, DIN 53 015)

Other information	
Explosive properties:	not explosive
Oxidizing properties:	No data available.
Minimum ignition temperature:	not determined

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: peroxides
Conditions to avoid:	Keep away from direct sunlight. Protect from moisture.
Incompatible Materials:	Peroxides. 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:	LC 50 (Rat): > 2,000 mg/kg
Inhalation Product:	LC0 (Rat): > 2.28 mg/l maximum concentration in the test: no animals died., Aerosols

Repeated dose toxicity

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Leading Deyond Chemistry	
Product:	No data available.
Skin Corrosion/Irritation Product:	Not irritating OECD Test Guideline 404 (Rabbit): Not irritating
Serious Eye Damage/Eye Irritati Product:	on Not irritating Rabbit: Not irritating
Respiratory or Skin Sensitizatio Product:	n Maximization test, OECD Test Guideline 406 (Guinea Pig): Not a skin sensitizer. tested substance: Structurally similar substance
Carcinogenicity Product:	This product contains no listed carcinogens according to IARC, ACGIH, NTP and/or OSHA in concentrations of 0.1 percent or greater.
IARC Monographs on the Evaluation	ation of Carcinogenic Risks to Humans:
US. National Toxicology Progra	m (NTP) Report on Carcinogens:
US. OSHA Specifically Regulate	d Substances (29 CFR 1910.1001-1050):
Germ Cell Mutagenicity	
In vitro Product:	Ames test (OECD TG 471): negative Chromosomal aberration (OECD TG 473): positive Genetic mutation in mammal cells (OECD TG 476): negative
In vivo Product:	Chromosomal aberration (OECD TG 474) intraperitoneal (i.p.) (Mouse): negative
Reproductive toxicity Product:	No data available.
Components: 3-Trimethoxysilylpropyl methacrylate	Not classified
Specific Target Organ Toxicity - Product:	Single Exposure Not classified
Specific Target Organ Toxicity - Repeated Exposure Product: Not classified	
Aspiration Hazard Product:	No evidence of aspiration toxicity
Other effects:	No data available.

12. Ecological information



Ecotoxicity:

Acute hazards to the aquatic environment:

Aquatic Invertebrates Product: E Chronic hazards to the aquatic et	C 50 (Daphnia magna, 48 h): > 876 mg/l nvironment: o data available.
Chronic hazards to the aquatic e	
	o data available.
Fish Product: N	
Aquatic Invertebrates Product: N	o data available.
	C 50 (Desmodesmus subspicatus (green algae), 72 h): > 536 mg/l OEC (Desmodesmus subspicatus (green algae), 72 h): 322 mg/l
Persistence and Degradability	
Biodegradation Product: 74	4 % (28 d, Directive 92/69/EEC C.4-D)
BOD/COD Ratio Product: N	o data available.
	ot bioaccumulative
Partition Coefficient n-octanol / wate Product:	og Kow: 2.1 21 °C (OECD TG 107)
Mobility in soil: A	dsorption on the floor: low.
	he data we have at our disposal do not necessitate identification oncerning environmental hazard.
13. Disposal considerations	
in	/ith respect to local regulations, e.g. dispose of to suitable waste icineration plant. Waste must be disposed of in accordance with federal, tate and local regulations. Incineration is the preferred method.
re In	ackaging, that can not be reused after cleaning must be disposed or ecycled in accordance with all federal, national and local regulations. acorrect disposal or reuse of this container is illegal and can be dangerous. ther 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., Protect against heat. As cool as possible. Minimum distance to heat sources under deck (e.g. heatable fuel tanks): 1 container position.

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)

None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Identity	Reportable quantity
methanol	5000 lbs.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Not classified

SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances



SARA 311/312 Hazardous Chemical Chemical Identity Threshold Planning Quantity

SARA 313 (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)

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.

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.

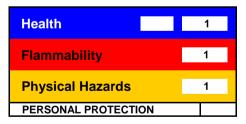
US. Pennsylvania RTK - Hazardous Substances No ingredient regulated by PA Right-to-Know Law present.

US. Rhode Island RTK

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

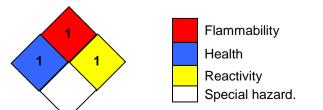
16.Other information, including date of preparation or last revision

HMIS Hazard ID



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:

03/21/2019



Version #:	1.0
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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