

Product name: Dynasylan® GLYMO

# SAFETY DATA SHEET

Classified in accordance with 29 CFR 1910.1200

## 1. Identification

**Product identifier:** Dynasylan® GLYMO

**Chemical name:**

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane

**Other means of identification**

**CAS Number:** 2530-83-8

**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 Emergency : +1 800 424 9300 (CHEMTREC - US & CANADA)  
Telephone 800 681 9531 (CHEMTREC MEXICO)  
+1 703 527 3887 (CHEMTREC WORLD)

## 2. Hazard(s) identification

**Hazards for the product as supplied**

**Health Hazards**

Serious Eye Damage/Eye Irritation Category 1

**Environmental Hazards**

Acute hazards to the aquatic environment Category 3

Chronic hazards to the aquatic environment Category 3

**Hazard(s) not otherwise classified (HNOC):** None.

**Label Elements**

Product name: Dynasylan® GLYMO

### Hazard Symbol:



**Signal Word:** Danger

**Hazard Statement:**  
 Causes serious eye damage.  
 Harmful to aquatic life with long lasting effects.

### Precautionary Statements

**Prevention:** Avoid release to the environment. Wear protective gloves/ protective clothing/ 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.

**Disposal:** Dispose of contents/ container to an approved facility in accordance with local, regional, national and international regulations.

## 3. Composition/information on ingredients

**Chemical name:**  
 [3-(2,3-epoxypropoxy)propyl]trimethoxysilane

### Substances

Chemical Identity	Common name and synonyms	CAS No./Unique ID	Content in percent (%) <sup>*</sup>	Trade Secret
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane		2530-83-8 <sup>*</sup>	<=100%	TSC

<sup>\*</sup> Indicates that the identifier is a CAS No.

TSC- the actual concentration or concentration range is withheld as a trade secret

<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 first aid measures

**General information:** Immediately remove contaminated clothing.

**Inhalation:** If aerosol or mists are formed: Move to fresh air. Get medical attention if any discomfort continues.

**Skin Contact:** Wash off immediately with plenty of water. If skin irritation persists, call a physician.

**Product name: Dynasylan® GLYMO**

**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. Get medical attention immediately.

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

#### Most important symptoms and effects, both 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:** 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 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

Product name: Dynasylan® GLYMO

**Personal precautions, protective equipment and emergency procedures:**

Use personal protective equipment. Do not breathe in vapours or aerosols.

**Accidental release measures:**

No data available.

**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, rivers, groundwater or soil.

## 7. Handling and storage

### Handling

**Technical measures:**

No data available.

**Local/Total ventilation:**

Provide for good ventilation if vapours/aerosols are formed.

**Safe handling advice:**

Take precautionary measures against static discharges. Handle in accordance with good industrial hygiene and safety practice. Provide good ventilation or extraction. Handle in accordance with good industrial hygiene and safety practice. Wear suitable protective equipment. Do not breathe in vapours or aerosols. If workplace exposure limits are exceeded and/or larger amounts are released (leakage, spilling, dust) the indicated respiratory protection should be used. Avoid contact with eyes, skin, and clothing. If there is the possibility of skin/eye contact, the indicated hand/eye/body protection should be used. Keep away from heat. Keep away from sparks, flames and other sources of ignition. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use with adequate ventilation. Ground and bond containers when transferring material. Use explosion-proof equipment. Follow all SDS/label precautions even after the container is emptied because it may retain product residues. Wash thoroughly after handling.

**Contact avoidance measures:**

No data available.

### Storage

**Safe storage conditions:**

The product has a high conductivity (static conductivity > 10,000 pS/m) Take precautionary measures against static discharges. Keep away from heat and from sources of ignition. Keep containers tightly closed in a cool, well-ventilated place. Protect from moisture.

**Safe packaging materials:**

No data available.

Product name: Dynasylan® GLYMO

**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 for good ventilation if vapours/aerosols are formed.

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

Wear safety glasses with side shields.

**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: Selection of protective gloves to meet the requirements of specific workplaces., The suitability for a specific workplace should be discussed with the producers of the protective gloves., 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., 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:**

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.

Product name: Dynasylan® GLYMO

## 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
<b>Odor:</b>	ester-like
<b>Odor Threshold:</b>	No data available.
<b>Freezing point:</b>	< -94 °F/ < -70 °C Literature
<b>Boiling Point:</b>	194 °F/ 90 °C (0.7 hPa) Method: DIN 51 356  504 °F/ 262 °C (1,013 hPa) Method: DIN 51 356
<b>Flammability:</b>	No data available.
<b>Upper/lower limit on flammability or explosive limits</b>	
<b>Explosive limit - upper:</b>	Method: DIN EN 1839 > 13.6 %(V) (392 °F/200 °C)
<b>Explosive limit - lower:</b>	Method: DIN EN 1839 0.7 %(V) (392 °F/200 °C, 1 bar)
<b>Flash Point:</b>	252 °F/122 °C Method: DIN EN ISO 2719
<b>Auto-ignition temperature:</b>	451 °F/233 °C Method: EC Method A.15
<b>Decomposition Temperature:</b>	No data available.
<b>pH:</b>	No data available.
<b>Viscosity</b>	
<b>Dynamic viscosity:</b>	3.65 mPa.s (77 °F/25 °C ) Method: DIN 53015
<b>Kinematic viscosity:</b>	No data available.
<b>Flow Time:</b>	No data available.
<b>Solubility(ies)</b>	
<b>Solubility in Water:</b>	not miscible decomposition by hydrolysis
<b>Solubility (other):</b>	No data available.
<b>Partition coefficient (n-octanol/water):</b>	0.5 (68 °F/20 °C )
<b>Vapor pressure:</b>	< 0.1 hPa (68 °F/20 °C)
<b>Relative density:</b>	No data available.
<b>Density:</b>	Approximate 1.07 g/cm <sup>3</sup> (68 °F/20 °C) Method: DIN 51757
<b>Bulk density:</b>	No data available.
<b>Relative vapor density:</b>	No data available.
<b>Particle characteristics:</b>	Not applicable.

Product name: Dynasylan® GLYMO

#### Other information

<b>Explosive properties:</b>	Not explosive
<b>Peroxides:</b>	Not applicable
<b>Metal Corrosion:</b>	Not to be expected in view of the structure
<b>Evaporation Rate:</b>	No data available.
<b>Molecular weight:</b>	236.3 g/mol

### 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>	Exothermic reaction with: Peroxides.
<b>Conditions to avoid:</b>	Protect from moisture.
<b>Incompatible Materials:</b>	Water. Peroxides.
<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>	Information on effects are given below.
<b>Skin Contact:</b>	Information on effects are given below.
<b>Eye contact:</b>	Information on effects are given below.
<b>Ingestion:</b>	Information on effects are given below.

#### 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.

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

##### Oral

<b>Product:</b>	LD 50, Rat, Female, Male, 8,025 mg/kg, OECD 401
<b>Components:</b>	LD 50, Rat, Female, Male, 8,025 mg/kg, OECD 401
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	

**Product name: Dynasylan® GLYMO**

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#### Dermal

**Product:** LD 50, Rabbit, Male, > 2,000 mg/kg, OECD 402, Not toxic after single exposure

**Components:**  
 [3-(2,3-epoxypropoxy)propyl]trimethoxysilane  
 LD 50, Rabbit, Male, 4,248 mg/kg, OECD 402

#### Inhalation

**Product:** LC 50, Rat, Female, Male, 4 h, 5.3 mg/l, Dust and mist, OECD 403

**Components:**  
 [3-(2,3-epoxypropoxy)propyl]trimethoxysilane  
 LC 50, Rat, Female, Male, 4 h, 5.3 mg/l, Dust and mist, OECD 403  
 Vapour, Not toxic after single exposure, Not applicable

#### Repeated dose toxicity

**Product:** NOAEL Rat, Female, Male, Oral, 90 day, 7 days a week, >= 1,000 mg/kg  
 NOAEC, Rat, Male, Inhalation - dust and mist, 28 day, 6 hours/day, 119 mg/m<sup>3</sup>

**Components:**  
 [3-(2,3-epoxypropoxy)propyl]trimethoxysilane  
 NOAEL Rat, Female, Male, Oral, 90 day, 7 days a week, >= 1,000 mg/kg  
 NOAEC, Rat, Male, Inhalation - dust and mist, 28 day, 6 hours/day, 119 mg/m<sup>3</sup>

#### Skin Corrosion/Irritation

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

**Components:**  
 [3-(2,3-epoxypropoxy)propyl]trimethoxysilane  
 Not irritating, OECD 404, Rabbit

#### Serious Eye Damage/Eye Irritation

**Product:** Risk of serious damage to eyes., OECD 405, Rabbit

**Components:**  
 [3-(2,3-epoxypropoxy)propyl]trimethoxysilane  
 Risk of serious damage to eyes., OECD 405, Rabbit

#### Respiratory or Skin Sensitization

**Product:** Buehler Test, OECD 406, Guinea Pig, Not a skin sensitizer.

**Components:**  
 [3-(2,3-epoxypropoxy)propyl]trimethoxysilane  
 Buehler Test, OECD 406, Guinea Pig, Not a skin sensitizer.

#### Carcinogenicity

**Product:** Did not show carcinogenic effects in animal experiments.

**Components:**  
 [3-(2,3-epoxypropoxy)propyl]trimethoxysilane  
 Did not show carcinogenic effects in animal experiments.

#### 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



**Product name: Dynasylan® GLYMO**

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**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:** Ames test, OECD 471: , positive and negative**Components:**[3-(2,3-epoxypropoxy)propyl]trimethoxysilane  
Ames test, OECD 471: , positive and negative**In vivo**

Not classified based on available data.

**Reproductive toxicity****Effects on fertility****Product:** Remarks: Animal testing did not show any effects on fertility.**Components:**[3-(2,3-epoxypropoxy)propyl]trimethoxysilane  
Remarks: Animal testing did not show any effects on fertility.**Effects on fetal development**

Not classified based on available data.

**Reproductive toxicity - Assessment****Product:** Reproductive toxicity: Animal testing did not show any effects on fertility.**Components:**[3-(2,3-epoxypropoxy)propyl]trimethoxysilane  
Reproductive toxicity: Animal testing did not show any effects on fertility.**Specific Target Organ Toxicity - Single Exposure****Product:** Based on available data, the classification criteria are not met.**Components:**[3-(2,3-epoxypropoxy)propyl]trimethoxysilane  
Not classified**Specific Target Organ Toxicity - Repeated Exposure****Product:** Based on available data, the classification criteria are not met.**Components:**[3-(2,3-epoxypropoxy)propyl]trimethoxysilane  
Based on available data, the classification criteria are not met.**Aspiration Hazard****Product:** No evidence of aspiration toxicity**Components:**[3-(2,3-epoxypropoxy)propyl]trimethoxysilane  
Not classified

Product name: Dynasylan® GLYMO

## Information on health hazards

### Other hazards

**Product:** Glycidoxypopyl trimethoxysilane administration by gavage to timed-pregnant rats during organogenesis resulted in maternal toxicity and slight fetotoxicity at 3000 mg/kg/day. No treatment-related malformation occurred at any dosage. The NOEL (No Observable Effect Level) for maternal toxicity as well as developmental toxicity was 1500 mg/kg/day for the specified study.

## 12. Ecological information

### Ecotoxicity:

#### Toxicity to Aquatic Plants

**Product:** EC 50, Algae (*Pseudokirchneriella subcapitata*), 96 h, 350 mg/l, OECD 201  
 NOEC, Algae (*Pseudokirchneriella subcapitata*), 96 h, 130 mg/l, OECD 201

#### Components:

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane  
 EC 50, Algae (*Pseudokirchneriella subcapitata*), 96 h, 350 mg/l, OECD 201  
 NOEC, Algae (*Pseudokirchneriella subcapitata*), 96 h, 130 mg/l, OECD 201

#### Toxicity to microorganisms

**Product:** EC 50, local activated sludge, 3 h, > 100 mg/l, OECD 209, tested in the presence of emulsifiers

#### Components:

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane  
 EC 50, local activated sludge, 3 h, > 100 mg/l, OECD 209, tested in the presence of emulsifiers

### Acute hazards to the aquatic environment:

#### Fish

**Product:** LC 50, *Cyprinus carpio*, 96 h, 55 mg/l, OECD 203

#### Components:

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane  
 LC 50, *Cyprinus carpio*, 96 h, 55 mg/l, OECD 203

#### Aquatic Invertebrates

**Product:** LC 50, *Simocephalus vetulus*, 48 h, 324 mg/l, US-EPA-method

#### Components:

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane  
 LC 50, *Simocephalus vetulus*, 48 h, 324 mg/l, US-EPA-method

### Chronic hazards to the aquatic environment:

#### Fish

No data available.

#### Aquatic Invertebrates

**Product:** NOEC, *Daphnia magna*, 21 d, 100 mg/l, OECD 211  
 Lowest Observed Effect Concentration, *Daphnia magna*, 21 d, > 100 mg/l, OECD 211

**Product name: Dynasylan® GLYMO****Components:**

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane NOEC, Daphnia magna, 21 d, 100 mg/l, OECD 211  
Lowest Observed Effect Concentration, Daphnia magna, 21 d, > 100 mg/l, OECD 211

**Persistence and Degradability****Biodegradation**

**Product:** 37 %, 28 d, (DOC; Die Away test - 79/831/EEC part C.4-A), aerobic, Not readily degradable.

**Components:**

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane 37 %, 28 d, (DOC; Die Away test - 79/831/EEC part C.4-A), The product is not biodegradable., aerobic

**BOD/COD Ratio**

No data available.

**Bioaccumulative potential****Bioconcentration Factor (BCF)**

**Product:** not bioaccumulative

**Components:**

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane not bioaccumulative

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

**Product:** 0.5, 20 °C

**Components:**

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane 0.5, 20 °C

**Mobility in soil:**

**Product:** Adsorption on the floor: low.

**Components:**

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane Adsorption on the floor: low.

**Results of PBT and vPvB assessment:**

No data available.

**Other adverse effects:****Additional ecological information**

**Product:** Harmful to aquatic life with long lasting effects.

**13. Disposal considerations****Disposal methods:**

Waste must be disposed of in accordance with local, state, provincial and federal laws and regulations. Empty containers must be handled with care due to product residue.

**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

Product name: Dynasylan® GLYMO

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 (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 and 725, 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**

Serious eye damage or eye irritation

Product name: Dynasylan® GLYMO

**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.

**Inventory Status:**

<b>Australia Industrial Chem. Act (AIC):</b>	On or in compliance with the inventory
<b>Canada DSL Inventory List:</b>	On or in compliance with the inventory
<b>Japan (ENCS) List:</b>	On or in compliance with the inventory
<b>Korea Existing Chemicals Inv. (KECI):</b>	On or in compliance with the inventory
<b>New Zealand Inventory of Chemicals:</b>	On or in compliance with the inventory
<b>Philippines PICCS:</b>	On or in compliance with the inventory
<b>Taiwan Chemical Substance Inventory:</b>	On or in compliance with the inventory
<b>US TSCA Inventory:</b>	Pre-registration is requested for specific importer.
	On or in compliance with the inventory
	Commercial Status: Active
<b>Switzerland New Subs Notified/Registered:</b>	On or in compliance with the inventory
<b>EINECS, ELINCS or NLP:</b>	On or in compliance with the inventory
	EU-REACH compliant for Evonik Operations GmbH and its affiliates as EU manufacturer/EU importer.

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

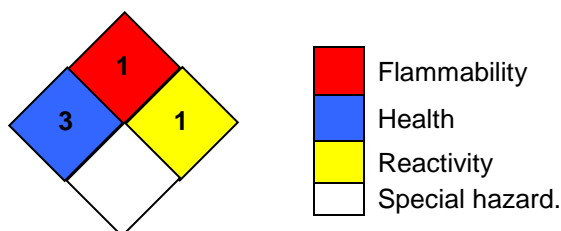
**HMIS Hazard ID**

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

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible; \*Chronic health effect

Product name: Dynasylan® GLYMO

### NFPA Hazard ID



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible

**Version #:** 3.0

**Revision Date:** 09/02/2025

**Date of first report version:** 04/01/2019

### Abbreviations and acronyms:

AIIC - 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.

**Product name: Dynasylan® GLYMO**

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**Disclaimer:**

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