

**SAFETY DATA SHEET****Dynasylan® 2201 EQ**

Material no.		Version	<b>4.0 / US</b>
Specification	<b>156022</b>	Revision date	<b>06/01/2015</b>
Order Number		Print Date	<b>06/25/2015</b>
		Page	<b>1 / 14</b>

**1. Identification****1.1. Product identifier**

Trade name Dynasylan® 2201 EQ

**1.2. Recommended use of the chemical and restrictions on use**

Relevant applications identified	For industrial use
Function	Coupling agent Crosslinking agents Surface modifier

**1.3. Details of the supplier of the safety data sheet**

Company	Evonik Corporation USA 299 Jefferson Road Parsippany, NJ 07054-0677 USA
Telephone	973-929-8000
Telefax	973-929-8040
Email address	Product-Regulatory-Services@Evonik.com

**1.4. 24 HOUR EMERGENCY TELEPHONE NUMBERS:**

<b>CHEMTREC - US &amp; CANADA:</b>	800-424-9300
<b>CHEMTREC MEXICO:</b>	01-800-681-9531
<b>CHEMTREC INTERNATIONAL:</b>	+1 703-527-3887 (collect calls accepted)
Product Regulatory Services	: 973-929-8060

**2. Hazards identification****2.1. Classification of the substance or mixture**

Classification according to Regulation 29CFR 1910.1200

Flammable liquids	Category 2	H225
Acute toxicity (Oral)	Category 3	H301
Acute toxicity (Inhalation)	Category 3	H331
Acute toxicity (Dermal)	Category 3	H311
Specific target organ toxicity - single exposure	Category 1	H370

**2.2. Label elements**

Statutory basis Classification according to Regulation 29CFR 1910.1200

**hazard-defining component(s) (GHS)**

- Methanol

**SAFETY DATA SHEET****Dynasylan® 2201 EQ**

Material no.		Version	<b>4.0 / US</b>
Specification	<b>156022</b>	Revision date	<b>06/01/2015</b>
Order Number		Print Date	<b>06/25/2015</b>
		Page	<b>2 / 14</b>

Symbol(s)



Signal word

Danger

Hazard statement

H225 - Highly flammable liquid and vapour.  
 H301 + H311 + H331 - Toxic if swallowed, in contact with skin or if inhaled  
 H370 - Causes damage to organs.

Precautionary statement  
Prevention

P210 - Keep away from heats/sparks/open flames/hot surfaces. - No smoking.  
 P233 - Keep container tightly closed.  
 P240 - Ground/bond container and receiving equipment.  
 P241 - Use explosion-proof electrical/ ventilating/ lighting/ equipment.  
 P242 - Use only non-sparking tools.  
 P243 - Take precautionary measures against static discharge.  
 P260 - Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.  
 P264 - Wash skin thoroughly after handling.  
 P270 - Do not eat, drink or smoke when using this product.  
 P271 - Use only outdoors or in a well-ventilated area.  
 P280 - Wear protective gloves/ eye protection/ face protection.

Precautionary statement  
Reaction

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 P310 - Immediately call a POISON CENTER or doctor/ physician.  
 P330 - Rinse mouth.  
 P363 - Wash contaminated clothing before reuse.  
 P370 + P378 - In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish.

Precautionary statement  
Storage

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.  
 P403 + P235 - Store in a well-ventilated place. Keep cool.  
 P405 - Store locked up.

Precautionary statement  
Disposal

P501 - Dispose of contents/ container to an approved waste disposal plant.

### 2.3. Other hazards

None known

## 3. Composition/information on ingredients

• <b>Methanol</b> > 20%	
CAS-No.	67-56-1
Flammable liquids	Category 2
Acute toxicity (Oral)	Category 3
Acute toxicity (Inhalation)	Category 3
Acute toxicity (Dermal)	Category 3
Specific target organ toxicity - single exposure	Category 1

## 4. First aid measures

**SAFETY DATA SHEET****Dynasylan® 2201 EQ**

Material no.		Version	<b>4.0 / US</b>
Specification	<b>156022</b>	Revision date	<b>06/01/2015</b>
Order Number		Print Date	<b>06/25/2015</b>
		Page	<b>3 / 14</b>

**4.1. Description of first aid measures****General advice**

Remove contaminated or saturated clothing immediately and follow safe disposal procedures.

**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**

In case of contact, immediately flush eyes with plenty of water, or if necessary, with eye rinsing solution. In case of persistent discomfort, consult an ophthalmologist.

**Ingestion**

If substance is accidentally swallowed, do not induce vomiting. If fully conscious, have patient rinse mouth with plenty of water and drink plenty of water in small sips. If unconscious, ensure person is in a stable position. Never give anything by mouth to an unconscious person. Obtain immediate medical attention.

**4.2. Most important symptoms and effects, both 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.

**4.3. Indication of any immediate medical attention and special treatment needed**

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****5.1. Extinguishing media**

Suitable extinguishing media: water spray, foam, Carbon dioxide (CO<sub>2</sub>), dry powder

Unsuitable extinguishing media: High volume water jet

**5.2. Special hazards arising from the substance or mixture**

In case of fire cool endangered containers with water.

Closed container may rupture if strongly heated. Flammable liquid. Vapors can travel to a source of ignition and flash back. Explosive mixtures may occur at temperatures at or above the flashpoint.

**5.3. Advice for firefighters**

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.

**SAFETY DATA SHEET****Dynasylan® 2201 EQ**

Material no.		Version	<b>4.0 / US</b>
Specification	<b>156022</b>	Revision date	<b>06/01/2015</b>
Order Number		Print Date	<b>06/25/2015</b>
		Page	<b>4 / 14</b>

As in any fire, wear self-contained positive-pressure breathing apparatus, (MSHA/NIOSH approved or equivalent) and full protective gear.

**6. Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation. Use personal protective equipment. Keep away from sources of ignition - No smoking.

**6.2. Environmental precautions**

Obey relevant local, state, provincial and federal laws and regulations. Do not contaminate any lakes, streams, ponds, groundwater or soil.

**6.3. 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.

**7. Handling and storage****7.1. Precautions for safe handling**

Provide good ventilation or extraction. Application, processing: Extraction at the emission source required.

**7.2. Conditions for safe storage, including any incompatibilities****Advice on protection against fire and explosion**

Take precautionary measures against static charges, keep away from sources of ignition.

Explosion protection equipment required.

Danger of explosion from residual product fumes; therefore avoid spark production through cutting, grinding, or welding work in the area of the container.

When repairs of the production system are to be made (e.g. welding work), the section to be repaired must be essentially free of product.

**Storage**

Residual vapors might explode on ignition; do not apply heat, cut, drill, grind or weld on or near this container.

Comply with storage regulations and regulations prohibiting storage of hazardous substances in non-stationary containers in the same room (TRGS 510).

Keep containers tightly closed in a cool, well-ventilated place. Protect from moisture.

**8. Exposure controls/personal protection****8.1. Control parameters**

• Methanol		
CAS-No.	67-56-1	
Control parameters	200 ppm	Time Weighted Average (TWA):(ACGIH)
Control parameters	250 ppm	Short Term Exposure Limit (STEL):(ACGIH)
Control parameters		Skin designation:(ACGIH)
	Can be absorbed through the skin.	
Control parameters	200 ppm 260 mg/m <sup>3</sup>	Permissible exposure limit:(OSHA Z1)
Control parameters	200 ppm 260 mg/m <sup>3</sup>	Time Weighted Average (TWA) Permissible Exposure Limit (PEL):(US CA OEL)
Control parameters	1000 ppm	Ceiling Limit Value:(US CA OEL)

**SAFETY DATA SHEET****Dynasylan® 2201 EQ**

Material no.		Version	<b>4.0 / US</b>
Specification	<b>156022</b>	Revision date	<b>06/01/2015</b>
Order Number		Print Date	<b>06/25/2015</b>
		Page	<b>5 / 14</b>

Control parameters	250 ppm 325 mg/m <sup>3</sup>	Short Term Exposure Limit (STEL):(US CA OEL)
Control parameters	Can be absorbed through the skin.	Skin designation:(US CA OEL)
Control parameters	200 ppm 260 mg/m <sup>3</sup>	Time Weighted Average (TWA):(TN OEL)
Control parameters	250 ppm 325 mg/m <sup>3</sup>	Short Term Exposure Limit (STEL):(TN OEL)
Control parameters	Can be absorbed through the skin.	Skin designation:(TN OEL)

**8.2. Exposure controls****Engineering measures**

Provide good ventilation or extraction.

**Personal protective equipment****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.

**Hand protection**

Glove material for example, butyl-rubber  
 Material thickness 0.5 mm  
 Break through time >= 480 min  
 Glove material for example, Fluorinated rubber (Viton)  
 Material thickness 0.4 mm  
 Break through time >= 240 min

Selection of protective gloves to meet the requirements of specific workplaces.

Suitability for specific workplaces should be clarified with protective glove manufacturers.

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.

**Eye protection**

Use chemical splash goggles or face shield.

**Skin and body protection**

Flame retardant antistatic protective clothing.  
(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.

**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.

**9. Physical and chemical properties****9.1. Information on basic physical and chemical properties**

physical state liquid  
 Colour colorless

**SAFETY DATA SHEET****Dynasylan® 2201 EQ**

Material no.		Version	<b>4.0 / US</b>
Specification	<b>156022</b>	Revision date	<b>06/01/2015</b>
Order Number		Print Date	<b>06/25/2015</b>
		Page	<b>6 / 14</b>

Form	liquid
Odour	alcoholic
Odour Threshold	not determined
pH	not determined
Melting point/range	no data available
Boiling point/range	73.4 °C (1013 hPa) Method: OECD TG 103
Flash point	13 °C Method: DIN EN ISO 13736
Evaporation rate	not determined
Flammability (solid, gas)	no data available
Lower explosion limit	5.5 %(V)  tested substance: methanol
Upper explosion limit	44 %(V)  tested substance: methanol
Vapour pressure	ca. 120 hPa (20 °C)
Vapour density	no data available
Density	ca. 0.92 g/cm <sup>3</sup> (20 °C) Method: OECD Test Guideline 109
Water solubility	partly miscible partial decomposition by hydrolysis
Partition coefficient: n-octanol/water	not determined
Autoignition temperature	425 °C Method: DIN 51 794
Thermal decomposition	not determined
Viscosity, dynamic	not determined

**9.2. Other information**

no data available

**10. Stability and reactivity****10.1. Reactivity**

**SAFETY DATA SHEET****Dynasylan® 2201 EQ**

Material no.		Version	<b>4.0 / US</b>
Specification	<b>156022</b>	Revision date	<b>06/01/2015</b>
Order Number		Print Date	<b>06/25/2015</b>
		Page	<b>7 / 14</b>

No dangerous reaction known under conditions of normal use.

**10.2. Chemical stability**

Stable under recommended storage conditions.

**10.3. Possibility of hazardous reactions**

Possibility of hazardous reactions      Vapours may form explosive mixture with air.

**10.4. Conditions to avoid**

Hydrolyses on contact with water.

In the presence of oxygen and heat, the ethanol forming during the reaction may produce acetaldehyde.

Material may form acetaldehyde when heated with inorganic pigments in the presence of air.

**10.5. Incompatible materials**

water

**10.6. Hazardous decomposition products**

Methanol in case of hydrolysis.

**11. Toxicological information****11.1. Information on toxicological effects**

Skin irritation	Hazardous by absorption through the skin.
carcinogenicity assessment	Contains no carcinogenic substances as defined by NTP, IARC and/or OSHA.
Human experience	Liver and kidney injuries may occur.

**Toxicological information on components****Methanol**

Acute oral toxicity	Acute toxicity estimate : 100 mg/kg Method: Expert judgement
Acute inhalation toxicity	Acute toxicity estimate : 3 mg/l / vapour Method: Expert judgement
Acute dermal toxicity	Acute toxicity estimate : 300 mg/kg Method: Expert judgement
Skin irritation	Rabbit No skin irritation
Eye irritation	Rabbit No eye irritation Method: OECD Test Guideline 405
Sensitization	Maximization test Guinea pig: Does not cause skin sensitisation. Method: OECD Test Guideline 406
Repeated dose toxicity	Oral Monkey LOAEL: 2340 mg/kg

**SAFETY DATA SHEET****Dynasylan® 2201 EQ**

Material no.		Version	<b>4.0 / US</b>
Specification	<b>156022</b>	Revision date	<b>06/01/2015</b>
Order Number		Print Date	<b>06/25/2015</b>
		Page	<b>8 / 14</b>

Assessment of STOT single exposure	Assessment	Causes damage to organs.
Assessment of STOT repeat exposure		no evidence for hazardous properties
Risk of aspiration toxicity		No evidence of aspiration toxicity
Gentoxicity in vitro	Ames test Salmonella typhimurium negative Method:	OECD Test Guideline 471
Gentoxicity in vivo	chromosomal aberration Mouse intraperitoneal (i.p.) negative Method:	OECD Test Guideline 474
teratogenicity assessment		Potential embryo-foetal toxicity and teratogenicity.
Human experience		Liver and kidney injuries may occur.
Further information		Material contains methanol. Harmful if inhaled or absorbed through skin; causes damage to liver, kidney and nervous system. Causes eye, skin, nose and throat irritation. May be fatal or cause blindness if swallowed. Cannot be made non-poisonous.

**12. Ecological information****12.1. Toxicity**

*No ecotoxicological studies are available on the mixture.*

**12.2. Persistence and degradability**

Biodegradability No data available

**12.3. Bioaccumulative potential**

Bioaccumulation No data available

**12.4. Mobility in soil**

Mobility No data available

**12.5. Other adverse effects**

Further Information No further information available

**13. Disposal considerations****13.1. Waste treatment methods**



**SAFETY DATA SHEET****Dynasylan® 2201 EQ**

Material no.		Version	<b>4.0 / US</b>
Specification	<b>156022</b>	Revision date	<b>06/01/2015</b>
Order Number		Print Date	<b>06/25/2015</b>
		Page	<b>9 / 14</b>

**Product**

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.**

**Uncleaned 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.

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**14. Transport information****D.O.T. Road/Rail**

- 4.1. UN number: UN 1230
- 4.2. UN proper shipping name: Methanol Solution
- 4.3. Transport hazard class(es): 3 (6.1)
- 4.4. Packing group: II
- 14.5. Environmental hazards (Marine pollutant): --
- 14.6. Special precautions for user: Yes
  - ROAD: FOR USA ONLY: When shipping in, by or via USA note of the Reportable Quantity - (CFR) Regulation!
  - RAIL: FOR USA ONLY: When shipping in, by or via USA note of the Reportable Quantity - (CFR) Regulation!

Keep separate from foodstuffs, luxury foods, feedstuffs

**Air transport ICAO-TI/IATA-DGR**

- 4.1. UN number: UN 1230
- 4.2. UN proper shipping name: Methanol Solution
- 4.3. Transport hazard class(es): 3 (6.1)
- 4.4. Packing group: II
- 14.5. Environmental hazards: --
- 14.6. Special precautions for user: Yes
  - IATA-C: Subsidiary risk: 6.1 (not to label)  
FOR USA ONLY: When shipping in, by or via USA note of the Reportable Quantity - Regulation!
  - IATA-P: Subsidiary risk: 6.1 (not to label)  
FOR USA ONLY: When shipping in, by or via USA note of the Reportable Quantity - Regulation!

Keep separate from foodstuffs, luxury foods, feedstuffs

**Sea transport IMDG-Code/GGVSee (Germany)**

- 4.1. UN number: UN 1230
- 4.2. UN proper shipping name: METHANOL SOLUTION
- 4.3. Transport hazard class(es): 3 (6.1)
- 4.4. Packing group: II
- 14.5. Environmental hazards (Marine pollutant): --
- 14.6. Special precautions for user: Yes

**SAFETY DATA SHEET****Dynasylan® 2201 EQ**

Material no.		Version	<b>4.0 / US</b>
Specification	<b>156022</b>	Revision date	<b>06/01/2015</b>
Order Number		Print Date	<b>06/25/2015</b>
		Page	<b>10 / 14</b>

- ||** EmS: F-E,S-D  
Clear of living quarters.  
FOR USA ONLY: When shipping in, by or via USA note of the Reportable Quantity-Regulation!
- ||** Keep separate from foodstuffs, luxury foods, feedstuffs
- 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:  
for transportapproval see regulatory information

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**15. Regulatory information****US Federal Regulations****OSHA**

If listed below, chemical specific standards apply to the product or components:

- None listed

**Clean Air Act Section (112)**

If listed below, components present at or above the de minimus level are hazardous air pollutants:

- Methanol  
CAS-No. 67-56-1

**CERCLA Reportable Quantities**

If listed below, a reportable quantity (RQ) applies to the product based on the percent of the named component:

- Methanol  
CAS-No. 67-56-1  
Reportable Quantity 10018 lbs

**SARA Title III Section 311/312 Hazard Categories**

The product meets the criteria only for the listed hazard classes:

- Acute Health Hazard
- Chronic Health Hazard
- Fire Hazard

**SARA Title III Section 313 Reportable Substances**

If listed below, components are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

- Methanol  
CAS-No. 67-56-1

**Toxic Substances Control Act (TSCA)**

If listed below, non-proprietary substances are subject to export notification under Section 12 (b) of TSCA:

- None listed

**SAFETY DATA SHEET****Dynasylan® 2201 EQ**

Material no.		Version	<b>4.0 / US</b>
Specification	<b>156022</b>	Revision date	<b>06/01/2015</b>
Order Number		Print Date	<b>06/25/2015</b>
		Page	<b>11 / 14</b>

**State Regulations**

The Listing requirements of the Right to Know (RTK) legislation varies by state. All information for NJ, PA, MA and other states can be derived from the listing of hazardous and non-hazardous components in section 2 and 15 of this MSDS.

**California Proposition 65**

A warning under the California Drinking Water Act is required only if listed below:

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

- Methanol  
CAS-No. 67-56-1

- ||• Ethyl carbamate  
CAS-No. 51-79-6

WARNING! This product contains a chemical known to the State of California to cause cancer.

- ||• Ethyl carbamate  
CAS-No. 51-79-6

An employer using HMIS/NFPA labeling must through training ensure that its employees are fully aware of the hazards of the chemicals used.

**HMIS Ratings**

Health :	2*
Flammability :	3
Physical Hazard :	1

**NFPA Ratings**

Health :	2
Flammability :	3
Reactivity :	1

**16. Other information****Further information**

Revision date 06/01/2015

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

**SAFETY DATA SHEET****Dynasylan® 2201 EQ**

Material no.		Version	<b>4.0 / US</b>
Specification	<b>156022</b>	Revision date	<b>06/01/2015</b>
Order Number		Print Date	<b>06/25/2015</b>
		Page	<b>12 / 14</b>

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**SAFETY DATA SHEET****Dynasylan® 2201 EQ**

Material no.		Version	<b>4.0 / US</b>
Specification	<b>156022</b>	Revision date	<b>06/01/2015</b>
Order Number		Print Date	<b>06/25/2015</b>
		Page	<b>13 / 14</b>

**Legend**

<b>ACC</b>	American Chemistry Council
<b>ACGIH</b>	American Conference of Governmental Industrial Hygienists
<b>ACS</b>	Advisory Committee on Sustainability
<b>ADI</b>	Acceptable Daily Intake
<b>ASTM</b>	American Society for Testing and Materials
<b>ATP</b>	Adaptation to Technical Progress
<b>BCF</b>	Bioconcentration factor
<b>BOD</b>	Biochemical oxygen demand
<b>c.c.</b>	closed cup
<b>CAO</b>	Cargo Aircraft Only
<b>Carc</b>	Carcinogen
<b>CAS</b>	Chemical Abstract Services
<b>CDN</b>	Canada
<b>CEPA</b>	Canadian Environmental Protection Act
<b>CERCLA</b>	Comprehensive Environmental Response – Compensation and Liability Act
<b>CFR</b>	Code of Federal Regulations
<b>CMR</b>	carcinogenic-mutagenic-toxic for reproduction
<b>COD</b>	Chemical oxygen demand
<b>DIN</b>	German Institute for Standardization
<b>DMEL</b>	Derived minimum effect level
<b>DNEL</b>	Derived no effect level
<b>DOT</b>	Department of Transportation
<b>EC50</b>	half maximal effective concentration
<b>EPA</b>	Environmental Protection Agency
<b>ErC50</b>	Reduction of Growth Rate
<b>ERG</b>	Emergency Response Guide Book
<b>FDA</b>	Food and Drug Administration
<b>GHS</b>	Globally Harmonized System of Classification and Labelling of Chemicals (GHS)
<b>GLP</b>	Good Laboratory Practice
<b>GMO</b>	Genetic Modified Organism
<b>HCS</b>	Hazard Communication Standard
<b>HMIS</b>	Hazardous Materials Identification System
<b>IARC</b>	International Agency for Research on Cancer
<b>IATA</b>	International Air Transport Association
<b>IBC</b>	Intermediate Bulk Container
<b>ICAO-TI</b>	International Civil Aviation Organization- Technical Instructions
<b>ICCA</b>	International Council of Chemical Association
<b>ID</b>	Identification number
<b>IMDG</b>	International Maritime Dangerous Goods
<b>IUPAC</b>	International Union of Pure and Applied Chemistry
<b>ISO</b>	International Organization For Standardization
<b>LC50</b>	50 % Lethal Concentration
<b>LD50</b>	50 % Lethal Dose
<b>L(EC50)</b>	LC50 or EC50
<b>LOAEL</b>	Low est observed adverse effect level
<b>LOEL</b>	Low est observed effect level
<b>MARPOL</b>	International Convention for the Prevention of Pollution from Ships
<b>NFPA</b>	National Fire Protection Association
<b>NOAEL</b>	No observed adverse effect level
<b>NOEC</b>	no observed effect concentration
<b>NOEL</b>	no observed effect level
<b>o. c.</b>	open cup
<b>OECD</b>	Organisation for Economic Cooperation and Development
<b>OEL</b>	Occupational Exposure Limit
<b>OSHA</b>	Occupational Safety and Health Administration
<b>PBT</b>	Persistent, bioaccumulative, toxic
<b>PEC</b>	Predicted effect concentration
<b>PNEC</b>	Predicted no effect concentration
<b>RQ</b>	Reportable Quantity
<b>SDS</b>	Safety Data Sheet
<b>STOT</b>	Specific Target Organ Toxicity
<b>UN</b>	United Nations
<b>vPvB</b>	very persistent, very bioaccumulative

**SAFETY DATA SHEET****Dynasylan® 2201 EQ**

Material no.		Version	<b>4.0 / US</b>
Specification	<b>156022</b>	Revision date	<b>06/01/2015</b>
Order Number		Print Date	<b>06/25/2015</b>
		Page	<b>14 / 14</b>

**voc** volatile organic compounds  
**WHMIS** Workplace Hazardous Materials Information System  
**WHO** World Health Organization