

Version: 2.0 Issue Date: 21.03.2019 Last revised date: 10.09.2024 Supersedes Date: 18.06.2021

SAFETY DATA SHEET

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name: Dynasylan® SIVO 160

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses:	For industrial use Coupling agent Crosslinking agents Surface modifier

Uses advised against: Not determined.

1.3 Details of the supplier of the safety data sheet

Company Name	: Evonik Operations GmbH Rellinghauser Str. 1-11 45128 Essen Germany
Telephone	: +49 6181 59 4787
E-mail	: sds-hu@evonik.com

1.4 Emergency telephone number:

24-Hour Health : +49 7623 919191 Emergency

National Poison Information Service (NPIS) England, Scotland and Wales: NHS: 111

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product has not been classified as hazardous according to the legislation in force.

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Not classified

2.2 Label Elements Not applicable



2.3 Other hazards

PBT/vPvB data

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

General information: preparation silicones, aminomodified, hydroformates

Polymers are exempt from REACH registration. The monomers of this polymer are registered pursuant to EC Regulation No. 1907/2006 (REACH).

SECTION 4: First aid measures

4.1 Description of first aid measures

Inhalation:	If aerosol or mists are formed: If necessary: Provide with fresh air.	
Skin Contact:	Wash off with plenty of water and soap.	
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.	
4.2 Most important symptoms and effects, both acute and delayed		
Symptoms:	None known.	
Hazards:	None known.	
4.3 Indication of immediate medical attention and special treatment needed		
Treatment:	After absorbing large amounts of substance: administration of activated charcoal. Acceleration of gastrointestinal passage	
SECTION 5: Firefighting measures		
5.1 Extinguishing media		
Suitable extinguishing media:	Water spray, foam, dry powder or carbon dioxide.	
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Pro	oduct name: Dynasylan® SIVO 160	
	Unsuitable extinguishing media:	High volume water jet.
5.2	Special hazards arising from the substance or mixture:	Standard procedure for chemical fires.
5.3	Advice 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:	In case of fire: wear a self contained respiratory apparatus
SE	CTION 6: Accidental release measures	
6.1	Personal precautions, protective equipment and emergency procedures:	Use personal protective equipment.
6.1.	1 For non-emergency personnel:	No data available.
6.1.	2 For emergency responders:	No data available.
6.2	Environmental Precautions:	Do not allow entrance in sewage water, soil stretches of water, groundwater, drainage systems.
6.3	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.
6.4	Reference to other sections:	For personal protection see section 8. For disposal considerations see section 13.
SECTION 7: Handling and storage		
7.1	Precautions for safe handling	
	Technical measures:	No data available.
	Local/Total ventilation:	Provide for good ventilation if vapours/aerosols are formed.
	Safe handling advice:	Ensure adequate ventilation.Handle in accordance with good industrial hygiene and safety practice. The personal protective equipment used must meet the requirements of Regulation (EU) 2016/425 and amendments (CE certification). If workplace exposure limits are exceeded

7.2 Conditions for safe storage, including any incompatibilities

Contact avoidance measures:

and/or larger amounts are released (leakage, spilling, dust) the indicated respiratory protection should be used. If there

hand/eye/body protection should be used. Do not breathe in vapours or aerosols. Avoid contact with skin and eyes.

is the possibility of skin/eye contact, the indicated

No data available.



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Safe storage conditions:

Normal measures for preventive fire protection.Keep container tightly closed.

No data available.

Safe packaging materials:

7.3 Specific end use(s):

Applications; see Section 1. No further information available

SECTION 8: Exposure controls/personal protection

8.1 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).

8.2 Exposure controls Appropriate Engineering Controls: Provide for good ventilation if vapours/aerosols are formed.

Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection:	Safety glasses
Hand Protection:	Material: Butyl rubber. Break-through time: >= 480 min Glove thickness: 0.5 mm Material: Fluorinated rubber (Viton) Break-through time: >= 480 min Glove thickness: 0.4 mm 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 information is based on our own tests, references from the literature and information from glove manufacturers, or derived by analogy with similar materials., Be aware that in daily use the durability of a chemical resistant protective glove can be notably shorter than the break through time measured according to EN 374, due to the numerous outside influences (e.g. temperature).
Skin and Body Protection:	suitable protective clothing - Use disposable clothing if appropriate.
Respiratory Protection:	In case of dusts/vapours/aerosols being formed or if the limit values like TLV are exceeded: use respiratory equipment with suitable filter (filter type ABEK) or wear a self contained respiratory apparatus Use only respiratory protection equipment with CE-symbol including four digit test number. The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapor/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self- contained breathing apparatus must be used. Note time limit for wearing respiratory protective equipment.
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.



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Environmental Controls:

see section 6.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties Appearance		
Physical state:	liquid	
Form:	liquid	
Color:	Yellow	
Odor:	Characteristic	
Odor Threshold:	No data available.	
Freezing point:	No data available.	
Boiling Point:	100 °C	
Flammability:	No data available.	
Upper/lower limit on flammability or ex	plosive limits	
Explosive limit - upper:	No data available.	
Explosive limit - lower:	No data available.	
Flash Point:	> 95 °C Method: DIN EN ISO 2719	
Auto-ignition temperature:	No data available.	
Decomposition Temperature:	No data available.	
pH:	3 - 7 at 20 °C	
Viscosity		
Dynamic viscosity:	No data available.	
Kinematic viscosity:	No data available.	
Solubility(ies)		
Solubility in Water:	Miscible with water.	
Partition coefficient (n-octanol/water):	No data available.	
Vapor pressure:	No data available.	
Relative density:	No data available.	
Density:	1.025 g/cm3 at 20 °C Method: DIN 51757	
Relative vapor density:	No data available.	
9.2 Other information		
Peroxides:	Not applicable	
SECTION 10: Stability and reactivity		

10.1	Reactivity:	No dangerous reaction known under conditions of normal use.
10.2	Chemical Stability:	Stable under recommended storage conditions.
10.3	Possibility of hazardous reactions:	No dangerous reactions known.

GB



10.4	Conditions to avoid:	Extremes of temperature and direct sunlight.
10.5	Incompatible Materials:	Strong acids.
10.6	Hazardous Decomposition Products:	n formic acid
SECT	ION 11: Toxicological inform	nation
11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008		
Information on likely routes of exposure		
	Inhalation:	Information on effects are given below.
	Skin Contact:	Information on effects are given below.
	Eye contact:	Information on effects are given below.
	Ingestion:	Information on effects are given below.
Acute toxicity (list all possible routes of exposure)		
	Oral	

Product:	Not classified for acute toxicity based on available data.
Dermal Product:	Not classified for acute toxicity based on available data.
Inhalation Product:	Not classified for acute toxicity based on available data.
Repeated dose toxicity Product:	No data available.
Skin Corrosion/Irritation Product:	No data available.
Serious Eye Damage/Eye In Product:	ritation No data available.
Respiratory or Skin Sensitiz Product:	zation No data available.
Carcinogenicity Product:	An Expert Judgment stated that no classification is necessary based on present knowledge.
Germ Cell Mutagenicity In vitro Product:	No data available.
In vivo Product:	No data available.
Reproductive toxicity Product:	No data available.
Specific Target Organ Toxic	sity - Single Exposure

Specific Target Organ Toxicity - Single Exposure



Product:	No data available.
Specific Target Organ Tox Product:	icity - Repeated Exposure No data available.
Aspiration Hazard Product:	No evidence of aspiration toxicity
11.2 Information on other hazard	S

Other information Product:

No toxicological tests are available on the product.; An Expert Judgment stated that no classification is necessary based on present knowledge.;

SECTION 12: Ecological information

12.1 Toxicity:

Acute hazards to the aquatic environment:

Fish Product:	No data available.
Aquatic Invertebrates Product:	No data available.
Toxicity to Aquatic Plants Product:	No data available.
Toxicity to microorganisms	

Product: No data available.

Chronic hazards to the aquatic environment:

Fish Product:	No data available.	
Aquatic Invertebrates Product:	No data available.	
Toxicity to Aquatic Plants Product:	No data available.	
Toxicity to microorganisms Product:	No data available.	
12.2 Persistence and Degradability		
Biodegradation		
Product:	No data available.	
12.3 Bioaccumulative potential		
Bioconcentration Factor (BCF) Product: No data available.		



Partition Coefficient n-octanol / water (log Kow)		
Product:	No data available.	
12.4 Mobility in soil:		
Product	No data available.	
12.5 Results of PBT and vPvB assessment:		
Product	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.	
12.6 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.	
SECTION 13: Disposal considerations		
13.1 Waste treatment methods		
General information:	No data available.	
Disposal methods:	With respect to local regulations, e.g. dispose of to suitable waste incineration plant. No waste key number as per the European Waste Types List can be assigned to this product, since such classification is based on the (as yet undetermined) use to which the product is put by the consumer. The waste key number must be determined as per the European Waste Types List (decision on EU Waste Types List 2000/532/EC) in cooperation with the disposal firm / producing firm / official authority.	
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.	

SECTION 14: Transport information

14.1 UN/ID No.

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good



14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Not applicable

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

EU Regulations

EU. REACH Annex XIV, Substances Subject to Authorization: None present or none present in regulated quantities (on the basis of current knowledge of the product composition).

EU. REACH Candidate List of Substances of Very High Concern for Authorization (SVHC): None present or none present in regulated quantities (on the basis of current knowledge of the product composition).

Regulation 1005/2009/EC on substances that deplete the ozone layer, Annex I, Controlled Substances: None present or none present in regulated quantities (on the basis of current knowledge of the product composition).

Regulation 1005/2009/EC on substances that deplete the ozone layer, Annex II, New Substances: None present or none present in regulated quantities (on the basis of current knowledge of the product composition).

UK EXP1: UK. GB PIC List, Regulation (EU) 649/2012 as amended by EU Exit Regulations S.I. 2019/720 and S.I. 2020/1567, as amended: None present or none present in regulated quantities (on the basis of current knowledge of the product composition).

UK EXP2: UK. GB PIC List, Regulation (EU) 649/2012 as amended by EU Exit Regulations S.I. 2019/720 and S.I. 2020/1567, as amended: None present or none present in regulated quantities (on the basis of current knowledge of the product composition).

UK EXP3: UK. GB PIC List, Regulation (EU) 649/2012 as amended by EU Exit Regulations S.I. 2019/720 and S.I. 2020/1567, as amended: None present or none present in regulated quantities (on the basis of current knowledge of the product composition).

UK BAN: UK. GB PIC List, Regulation (EU) 649/2012 as amended by EU Exit Regulations S.I. 2019/720 and S.I. 2020/1567, as amended: None present or none present in regulated quantities (on the basis of current knowledge of the product composition).

EU. Directive 2012/18/EU (SEVESO III) on major accident hazards involving dangerous substances, Annex I:

15.2 Chemical safety assessment: No chemical safety assessment is required for this product.

International regulations

Montreal protocol Not applicable



Stockholm convention Not applicable

Rotterdam convention Not applicable

Kyoto protocol

Not applicable

SECTION 16: Other information

Abbreviations and acronyms:

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC -Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw -Body weight: CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; EIGA -European Industrial Gases Association: 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; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; 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; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level: NOELR - No Observable Effect Loading Rate: 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; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID -Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - substance of very high concern; TCSI -Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Key literature references and No data available. sources for data:

Wording of the statements in section 2 and 3

: none

Training 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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Product name: Dynasylan® SIVO 160

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