

Product name: Dynasylan® GLYEO

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® GLYEO

Additional identification

Chemical name: [3-(2,3-epoxypropoxy)propyl]triethoxysilane
Chemical formula: C₁₂H₂₆O₅Si
INDEX No. -
CAS-No. 2602-34-8
EC No. 220-011-6
REACH Registration No.: 01-2119970892-25-0002

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 Emergency : +49 7623 919191

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

Not a PBT, vPvB substance as per the criteria of the REACH Regulation.

SECTION 3: Composition/information on ingredients
3.1 Substances
Chemical name: [3-(2,3-epoxypropoxy)propyl]triethoxysilane

INDEX No.:
CAS-No.: 2602-34-8

EC No.: 220-011-6

REACH Registration No.: 01-2119970892-25-0002

Chemical name	Concentration	CAS-No.	EC No.	UK-REACH Registration No.	REACH Registration No.	M-Factor:	Notes
[3-(2,3-epoxypropoxy)propyl]triethoxysilane		2602-34-8	220-011-6		01-2119970892-25	No data available.	

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

This substance has workplace exposure limit(s).

This substance is listed as SVHC.

Classification

Chemical name	Classification	Notes
[3-(2,3-epoxypropoxy)propyl]triethoxysilane	Classification: None known. Supplemental label information: None known.	Not applicable

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.

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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.

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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures: Use personal protective equipment. Do not breathe in vapours or aerosols.

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.

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SECTION 7: Handling and storage
7.1 Precautions for safe handling

Technical measures:	No data available.
Local/Total ventilation:	Provide good ventilation or extraction.
Safe handling advice:	Provide good ventilation or extraction. Avoid contact with skin and eyes. 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 and/or larger amounts are released (leakage, spilling, dust) the indicated respiratory protection should be used. If there is the possibility of skin/eye contact, the indicated hand/eye/body protection should be used. Do not breathe in vapours or aerosols. Avoid contact with skin and eyes.
Contact avoidance measures:	No data available.

7.2 Conditions for safe storage, including any incompatibilities

Safe storage conditions:	Normal measures for preventive fire protection. Keep containers tightly closed in a cool, well-ventilated place. Protect from moisture.
Safe packaging materials:	No data available.

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).

DNEL-Values

Critical component	Type	Route of Exposure	Health Warnings	Remarks
[3-(2,3-epoxypropoxy)propyl]triethoxysilane	General population	Eyes	Local effect;	No hazard identified
	Workers	Eyes	Local effect;	No hazard identified

PNEC-Values

Critical component	Environmental compartment	PNEC-Values	Remarks
[3-(2,3-epoxypropoxy)propyl]triethoxysilane	Sediment (freshwater)	1.5 mg/kg	
	Sediment (marine water)	0.15 mg/kg	
	Soil	0.24 mg/kg	Soil
	Aquatic (freshwater)	0.1 mg/l	
	Sewage treatment plant	100 mg/l	
	Aquatic (marine water)	0.01 mg/l	

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8.2 Exposure controls

Appropriate Engineering Controls: Provide good ventilation or extraction.

Individual protection measures, such as personal protective equipment

Eye/face protection:	Safety glasses
Hand Protection:	<p>Material: Butyl rubber. Break-through time: \geq 480 min Glove thickness: 0.5 mm Material: Fluorinated rubber (Viton) Break-through time: \geq 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).</p>
Skin and Body Protection:	No specific recommendations.
Respiratory Protection:	<p>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.</p>
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.
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:	colorless
Odor:	Unspecific
Odor Threshold:	No data available.
Freezing point:	< -70 °C

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	Method: OECD 102
Boiling Point:	270 °C at 1,013 hPa Method: DIN 51 356
Flammability:	No data available.
Upper/lower limit on flammability or explosive limits	
Explosive limit - upper:	No data available.
Explosive limit - lower:	No data available.
Flash Point:	125 °C Method: DIN EN ISO 2719
Auto-ignition temperature:	No data available.
Decomposition Temperature:	> 276 °C
pH:	3.5 - 4.0 at 20 °C Method: DIN 38404-C5 Concentration: 1,000 g/l
Viscosity	
Dynamic viscosity:	3.35 mPa.s at 20 °C Method: DIN 53015
Kinematic viscosity:	No data available.
Solubility(ies)	
Solubility in Water:	not miscible decomposition by hydrolysis
Partition coefficient (n-octanol/water):	2.0 at 20 °C Method: QSAR
Vapor pressure:	0.105 Pa at 20 °C Method: OECD 104
	0.183 hPa at 25 °C Method: OECD 104
Relative density:	No data available.
Density:	1.006 g/cm ³ at 20 °C Method: DIN 51757
Relative vapor density:	No data available.

9.2 Other information

Explosive properties:	Method: 440/2008/EC A.14 Not explosive
Self-ignition:	230 °C 1,013 hPa Method: EC Method A.15
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.

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|-------------|--|--|
| 10.3 | Possibility of hazardous reactions: | Reacts with: Alkalies. Acids. Amines. Exothermic reaction with: Peroxides. |
| 10.4 | Conditions to avoid: | Vapours may form explosive mixtures with air. 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: | Alkalies. Amines. Acids. Peroxides. Water. |
| 10.6 | Hazardous Decomposition Products: | Ethanol in case of hydrolysis. Alcohol formed by hydrolysis lowers the flash point of the product. |

SECTION 11: Toxicological information

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: | LD 50, Rat, Female, Male, > 2,000 mg/kg, OECD 401, Not toxic after single exposure |
| Components: | |
| [3-(2,3-epoxypropoxy)propyl]triet hoxysilane | LD 50, Rat, Female, Male, > 2,000 mg/kg, OECD 401
Not toxic after single exposure, No classification |

Dermal

- | | |
|--|---|
| Product: | LD 50, Rabbit, Male, > 2,000 mg/kg, OECD 402, Not toxic after single exposure, (analogy) |
| Components: | |
| [3-(2,3-epoxypropoxy)propyl]triet hoxysilane | LD 50, Rabbit, Male, > 2,000 mg/kg, OECD 402, (analogy)
Not toxic after single exposure, No classification |

Inhalation

- | | |
|--|--|
| Product: | LC 50, Rat, Female, Male, 4 h, > 5.3 mg/l, Dust and mist, OECD 403, (analogy) |
| Components: | |
| [3-(2,3-epoxypropoxy)propyl]triet hoxysilane | LC 50, Rat, Female, Male, 4 h, > 5.3 mg/l, Dust and mist, OECD 403, (analogy)
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, (analogy)
NOAEL Rat, Female, Male, Oral, 28 day, 5 days/weeks, >= 1,000 mg/kg, (analogy) |
|-----------------|---|

Product name: Dynasylan® GLYEO

Components:

[3-(2,3-epoxypropoxy)propyl]triethoxysilane
NOAEL Rat, Female, Male, Oral, 90 day, 7 days a week, >= 1,000 mg/kg, (analogy)
NOAEL Rat, Female, Male, Oral, 28 day, 5 days/weeks, >= 1,000 mg/kg, (analogy)

Skin Corrosion/Irritation

Product: Not irritating, OECD 404, (Rabbit)

Components:

[3-(2,3-epoxypropoxy)propyl]triethoxysilane
Not irritating, OECD 404, Rabbit

Serious Eye Damage/Eye Irritation

Product: Not irritating, OECD 405, Rabbit

Components:

[3-(2,3-epoxypropoxy)propyl]triethoxysilane
Not irritating, OECD 405, Rabbit

Respiratory or Skin Sensitization

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

Components:

[3-(2,3-epoxypropoxy)propyl]triethoxysilane
Maximization Test, OECD 406, Guinea Pig, Not a skin sensitizer.

Carcinogenicity

Product: No evidence that cancer may be caused. (analogy)

Components:

[3-(2,3-epoxypropoxy)propyl]triethoxysilane
No evidence that cancer may be caused. (analogy)

Germ Cell Mutagenicity

no evidence of mutagenic effects, (analogy)

In vitro

Product: gene mutation test, OECD 471: , positive and negative
Micronucleus test, OECD 487: , negative

Components:

[3-(2,3-epoxypropoxy)propyl]triethoxysilane
gene mutation test, OECD 471: , positive and negative
Micronucleus test, OECD 487: , negative

In vivo

Product: Micronucleus test, OECD 474, Oral, Mouse, Male, positive and negative

Components:

[3-(2,3-epoxypropoxy)propyl]triethoxysilane
Micronucleus test, OECD 474, Oral, Mouse, Male, positive and negative

Reproductive toxicity

Product: no evidence of reproductiontoxic properties (analogy)

Components:

[3-(2,3-epoxypropoxy)propyl]triethoxysilane
no evidence of reproductiontoxic properties (analogy)

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Specific Target Organ Toxicity - Single Exposure

Product: No data available.
Components:
 [3-(2,3-epoxypropoxy)propyl]triethoxysilane No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.
Components:
 [3-(2,3-epoxypropoxy)propyl]triethoxysilane No data available.

Aspiration Hazard

Product: No evidence of aspiration toxicity
Components:
 [3-(2,3-epoxypropoxy)propyl]triethoxysilane Not classified

11.2 Information on other hazards

Other information

Product: No data available.

SECTION 12: Ecological information

12.1 Toxicity:

Acute hazards to the aquatic environment:

Fish

Product: LC 50, Danio rerio, 96 h, > 100 mg/l OECD 203
Components:
 [3-(2,3-epoxypropoxy)propyl]triethoxysilane LC 50, Danio rerio, 96 h, > 100 mg/l OECD 203

Aquatic Invertebrates

Product: EC 50, Daphnia magna, 48 h, > 100 mg/l OECD 202
Components:
 [3-(2,3-epoxypropoxy)propyl]triethoxysilane EC 50, Daphnia magna, 48 h, > 100 mg/l OECD 202

Toxicity to Aquatic Plants

Product: EC 50 (Desmodesmus subspicatus (green algae), 72 h): > 100 mg/l (OECD 201)
Components:
 [3-(2,3-epoxypropoxy)propyl]triethoxysilane EC 50 (Desmodesmus subspicatus (green algae), 72 h): > 100 mg/l (OECD 201)

Toxicity to microorganisms

Product: NOEC, local activated sludge, 3 h, >= 1,000 mg/l, OECD 209
Components:
 [3-(2,3-

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epoxypropoxy)propyl]triet
hoxysilane

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Components:
[3-(2,3-epoxypropoxy)propyl]triet
hoxysilane No data available.

Aquatic Invertebrates

Product: No data available.

Components:
[3-(2,3-epoxypropoxy)propyl]triet
hoxysilane No data available.

Toxicity to Aquatic Plants

Product: NOEC (Desmodesmus subspicatus (green algae), 72 h): ≥ 100 mg/l (OECD 201)

Components:
[3-(2,3-epoxypropoxy)propyl]triet
hoxysilane NOEC (Desmodesmus subspicatus (green algae), 72 h): ≥ 100 mg/l (OECD 201)

Toxicity to microorganisms

Product: NOEC, local activated sludge, 3 h, $\geq 1,000$ mg/l, OECD 209

Components:
[3-(2,3-epoxypropoxy)propyl]triet
hoxysilane NOEC, local activated sludge, 3 h, $\geq 1,000$ mg/l, OECD 209

12.2 Persistence and Degradability

Biodegradation

Product: 53 %, 28 d, OECD 301 F, Not readily degradable.

Components:
[3-(2,3-epoxypropoxy)propyl]triet
hoxysilane 53 %, 28 d, OECD 301 F, Not readily degradable.

12.3 Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: low

Components:
[3-(2,3-epoxypropoxy)propyl]triet
hoxysilane low

Partition Coefficient n-octanol / water (log Kow)

Product: 2.0, 20 °C, QSAR

Components:

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[3-(2,3-epoxypropoxy)propyl]triethoxysilane 2.0, 20 °C, QSAR

12.4 Mobility in soil:

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

12.5 Results of PBT and vPvB assessment:

Product Not a PBT, vPvB substance as per the criteria of the REACH Regulation.
Components:
[3-(2,3-epoxypropoxy)propyl]triethoxysilane Non-classified vPvB substance, Non-classified PBT substance

12.6 Other adverse effects:

Other hazards
Product: The data we have at our disposal do not necessitate identification concerning environmental hazard.

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

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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).

EU. Regulation 2019/1021/EU on persistent organic pollutants (POPs) (recast), as amended: 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: Not applicable

Product name: Dynasylan® GLYEO

15.2 Chemical safety assessment: No exposure or risk assessment is required for this product since it is not classified for health or environmental risks.

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

Notes:

Not applicable	Not applicable
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Key literature references and sources for data: No data available.

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Training information: No data available.

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

Disclaimer: This information and all further technical advice is based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.