

SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended.

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

1.1 Product identifier

Product name:

VPS 7161

Additional identification

Chemical name:	1,3,5-tris[3-(trimethoxysilyl)propyl]-1,3,5-triazine-2,4,6(1H,3H,5H)-trione
Chemical formula:	C ₂₁ H ₄₅ N ₃ O ₁₂ Si ₃
INDEX No.	-
CAS-No.	26115-70-8
EC No.	247-465-8
REACH Registration No.	01-2120807606-55-0001

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

Identified uses: For industrial use
Additive
Coupling agent

Uses advised against: Not determined.

1.3 Details of the supplier of the safety data sheet

Company Name : Evonik Resource Efficiency GmbH
RE-ES-PS Hanau
Postfach 1345
63403 Hanau
Germany

Telephone : +49 6181 59 4787

E-mail : sds-hu@evonik.com

1.4 Emergency telephone number:

24-Hour Health : +49 7623 919191
Emergency

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product has been classified according to the legislation in force.

Classification according to Regulation (EC) No 1272/2008 as amended.

Health Hazards

Acute toxicity (Oral)	Category 4	H302: Harmful if swallowed.
Acute toxicity (Inhalation - vapor)	Category 4	H332: Harmful if inhaled.

2.2 Label Elements



Signal Words: Warning

Hazard Statement(s): H302+H332: Harmful if swallowed or if inhaled.

Supplemental label information

EUH208: Contains (3-(trimethoxysilyl)propyl isocyanate). May produce an allergic reaction.

Precautionary Statements

Prevention:

P264: Wash thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

Response:

P301+P312: IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P330: Rinse mouth.

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312: Call a POISON CENTER/doctor if you feel unwell.

Disposal:

P501: Dispose of contents/container in accordance with local regulation.

2.3 Other hazards

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

SECTION 3: Composition/information on ingredients

3.1 Substances

Chemical name 1,3,5-tris[3-(trimethoxysilyl)propyl]-1,3,5-triazine-2,4,6(1H,3H,5H)-trione
INDEX No.:
CAS-No.: 26115-70-8
EC No.: 247-465-8
REACH Registration No.: 01-2120807606-55-0001

Chemical name	Concentration	CAS-No.	EC No.	REACH Registration No.	M-Factor:	Notes
1,3,5-tris[3-(trimethoxysilyl)propyl]-1,3,5-triazine-2,4,6(1H,3H,5H)-trione	>=90 - <100%	26115-70-8	247-465-8	01-2120807606-55	No data available.	
methanol	<0,6%	67-56-1	200-659-6	01-2119433307-44	No data available.	#
3-(trimethoxysilyl)propyl isocyanate	>=0,1 - <1%	15396-00-6	239-415-9	01-2119959861-25	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

SECTION 4: First aid measures

General: Take off all contaminated clothing immediately.

4.1 Description of first aid measures

Inhalation: If aerosol or mists are formed: Possible discomfort: irritation of mucous lining (nose, throat, eyes) cough, sneezing, flow of tears. Move victims into fresh air. In case of persistent discomfort: Consult doctor immediately.

Skin Contact: Wash off immediately with plenty of water. In case of discomfort: Supply with medical care.

Eye contact: Keeping eyelid open, immediately rinse thoroughly for at least 5 minutes using plenty of water or, if necessary, eye rinsing solution. In case of persistent discomfort: Consult an ophthalmologist.

Ingestion: Have the mouth rinsed with water. Have patient drink plenty of water in small sips. Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed: No data available.

4.3 Indication of any immediate medical attention and special treatment needed

Hazards: No data available.

Treatment: Treatment Immediate gastric lavage. Antidote treatment, correction of acid-base balance. Detection of substance (Methanol) possible in: Blood
Antidote treatment: ethanol.

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: Hazard-determining flue gases might develop in case of fire: Nitrogen Oxides

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. Observe the rules usually applicable when handling chemicals. Avoid contact with skin and eyes.
- 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:** Wear personal protective equipment; see section 8. Disposal considerations; see section 13.

SECTION 7: Handling and storage:

- 7.1 Precautions for safe handling:** 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.
- 7.2 Conditions for safe storage, including any incompatibilities:** Ensure there is good room ventilation. Normal measures for preventive fire protection. Keep container tightly closed. Suitable materials are: Stainless steel.
- 7.3 Specific end use(s):** No further information available Applications; see Section 1.

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters Occupational Exposure Limits

DNEL-Values

Remarks: DNEL-Values

Critical component	Type	Route of Exposure	Health Warnings	Remarks
methanol	Workers	Dermal	Acute effects systemic, Long-term - systemic effects; 40 mg/kg bodyweight/day	

	Workers	Inhalation	Acute effects systemic, Long-term - systemic effects; 260 mg/m3	
	Workers	Inhalation	Acute effects local, Long-term - local effects; 260 mg/m3	
	general populace	Dermal	Acute effects systemic, Long-term - systemic effects; 8 mg/kg bodyweight/day	
	general populace	Inhalation	Acute effects systemic, Long-term - systemic effects; 50 mg/m3	
	general populace	Oral	Acute effects systemic, Long-term - systemic effects; 8 mg/kg bodyweight/day	
	general populace	Inhalation	Acute effects local, Long-term - local effects; 50 mg/m3	
3-(trimethoxysilyl)propyl isocyanate	Workers	Inhalation	Long-term systemic effects; 14 mg/m3	
	Workers	Inhalation	Acute effects systemic; 14 mg/m3	
	Workers	Inhalation	Long-term local effects; 0,05 mg/m3	
	Workers	Inhalation	Acute effects local; 0,05 mg/m3	
	Workers	Dermal	Long-term systemic effects; 2,0 mg/kg bodyweight/day	
	Workers	Dermal	Acute effects systemic; 2,0 mg/kg bodyweight/day	
	Workers	Dermal	Long-term local effects;	High hazard (no threshold derived).
	Workers	Dermal	Acute effects local;	High hazard (no threshold derived).
	Workers	eye	Local effects;	Medium hazard (no threshold derived).
				The substance is classified as corrosive to skin and eyes and as sensitizing from skin contact. No DNELs for the dermal route can be derived. Thus, a qualitative risk assessment has to be performed. The substance is assigned to the hazard band 'high hazard' following REACH Guidance Part E, Table E.3.-1. Therefore any risk management measure to eliminate dermal exposure should be considered (technical, organisational, personal measures). Technical and organisational measures are described in Part E of the ECHA guidance Table E.3.-1.

PNEC-Values

Remarks: PNEC-Values

Critical component	Environmental compartment	PNEC-Values	Remarks
methanol	Fresh water	20,8 mg/l	

	marine water	2,08 mg/l	
	water - intermittent releases	1540 mg/l	
	freshwater sediment	77 mg/kg (dry weight)	
	Marine sediments	7,7 mg/kg (dry weight)	
	soil	100 mg/kg (dry weight)	
	sewage treatment plant	100 mg/l	
	oral (secondary poisoning)		No exposure expected.

3-(trimethoxysilyl)propyl isocyanate	Fresh water	0,86 mg/l	
	Sewage treatment plant	10 mg/l	
	freshwater sediment	3,1 mg/kg (dry weight)	
	marine water	0,086 mg/l	
	marine water sediment	0,31 mg/kg (dry weight)	
	soil	0,12 mg/kg (dry weight)	
	Top predators		Does not bioaccumulate.
	water - intermittent releases	8,6 mg/l	

8.2 Exposure controls

Appropriate Engineering Controls:

Application, processing: Provide good ventilation or extraction.

Individual protection measures, such as personal protective equipment

Eye/face protection: close-fitting protective goggles (e.g. closed goggles)

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., Suitability for specific workplaces should be clarified with protective glove manufacturers., The information is based on our own tests, references from the literature and information from glove manufacturers, or derived by analogy with similar materials., Please observe that the daily duration of usage of a chemical protective glove is in practice far shorter due to the many influencing factors (e.g. temperature, mechanical strain on the glove material) than the permeation time determined acc. EN 374.

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/vapour/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. Take off immediately all 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:	Yellow
Odor:	Characteristic
Odor Threshold:	No data available.
pH:	8,6 (1.000 g/l, 20 °C)
Freezing point:	-25 °C Setting point
Boiling Point:	237,0 - 247,0 °C (35 hPa)
Flash Point:	> 95 °C (DIN EN ISO 2719 (Pensky-Martens, Closed Cup))
Evaporation Rate:	No data available.
Flammability (solid, gas):	No data available.
Flammability Limit - Upper (%):	No data available.
Flammability Limit - Lower (%):	No data available.
Vapor pressure:	No data available.
Vapor density (air=1):	No data available.
Density:	1,176 g/cm ³ (20 °C) (DIN 51757)
Relative density:	No data available.
Solubility(ies)	
Solubility in Water:	not miscible decomposition by hydrolysis
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	2,4 (QSAR)
Self Ignition Temperature:	No data available.
Decomposition Temperature:	No data available.
Kinematic viscosity:	No data available.
Dynamic viscosity:	approx. 430 mPa.s (20 °C)

9.2 Other information

Explosive properties:	no explosion limits under standard conditions
Oxidizing properties:	No data available.

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.
10.4 Conditions to avoid:	Protect from moisture.
10.5 Incompatible Materials:	Water.
10.6 Hazardous Decomposition Products:	Methanol in case of hydrolysis. Alcohol formed by hydrolysis lowers the flash point of the product.

SECTION 11: Toxicological information

Information on likely routes of exposure

Inhalation:	No data available.
--------------------	--------------------

Skin Contact: No data available.

Eye contact: No data available.

Ingestion: No data available.

11.1 Information on toxicological effects

Acute toxicity

Oral

Product: LD 50 (Rat): 1.713 mg/kg (OECD Test Guideline 401) (literature value)

Components: LD 50 (Rat): 1.713 mg/kg (literature value)

1,3,5-tris[3-(trimethoxysilyl)propyl]-
1,3,5-triazine-
2,4,6(1H,3H,5H)-trione
methanol

LD 50 (Rat): 100 mg/kg

3-(trimethoxysilyl)propyl
isocyanate

LD 50 (Rat): 878 mg/kg

Dermal

Product: LD 50 (Rabbit) 19.200 mg/kg (OECD Test Guideline 402)

Components: LD 50 (Rabbit): 19.200 mg/kg

1,3,5-tris[3-(trimethoxysilyl)propyl]-
1,3,5-triazine-
2,4,6(1H,3H,5H)-trione
methanol

LD 50 (Rat): 300 mg/kg

3-(trimethoxysilyl)propyl
isocyanate

LD 50 (Rabbit): 1.190 mg/kg

Inhalation

Product: ATEmix13,61 mg/l Vapour

Components:

1,3,5-tris[3-(trimethoxysilyl)propyl]-
1,3,5-triazine-
2,4,6(1H,3H,5H)-trione
methanol

(Rat, 6 h) No deaths observed., Vapour
No data available., Dusts, mists and fumes
LC 50 (Rat, 4 h) 3 mg/l Vapour
No data available., Dusts, mists and fumes

3-(trimethoxysilyl)propyl
isocyanate

LC 50 (Rat, 4 h) 0,129 mg/m³ Vapour
No data available., Dusts, mists and fumes

Repeated dose toxicity

Product: No data available.

Components: No data available.

1,3,5-tris[3-(trimethoxysilyl)propyl]-
1,3,5-triazine-
2,4,6(1H,3H,5H)-trione
methanol

No data available.

3-(trimethoxysilyl)propyl
isocyanate

No data available.

Skin Corrosion/Irritation: Not irritating

Product:	OECD Test Guideline 404 (Rabbit): Not irritating
Components:	
1,3,5-tris[3-(trimethoxysilyl)propyl]-1,3,5-triazine-2,4,6(1H,3H,5H)-trione	OECD Test Guideline 404 (Rabbit): Not irritating
methanol	literature (Rabbit): Not irritating
3-(trimethoxysilyl)propyl isocyanate	OECD Test Guideline 404 (Rabbit, < 1 h): Corrosive.
Serious Eye Damage/Eye Irritation:	Not irritating
Product:	OECD Test Guideline 405 (Rabbit): Not irritating
Components:	
1,3,5-tris[3-(trimethoxysilyl)propyl]-1,3,5-triazine-2,4,6(1H,3H,5H)-trione	OECD Test Guideline 405 (Rabbit): Not irritating
methanol	(Rabbit): Not irritating
3-(trimethoxysilyl)propyl isocyanate	OECD Test Guideline 405 (Rabbit): Risk of serious damage to eyes.
Respiratory or Skin Sensitization:	Not a skin sensitizer.
Product:	Buehler Test, OECD Test Guideline 406 (Guinea Pig): Non sensitising
Components:	
1,3,5-tris[3-(trimethoxysilyl)propyl]-1,3,5-triazine-2,4,6(1H,3H,5H)-trione	Buehler Test, OECD Test Guideline 406 (Guinea Pig): Not a skin sensitizer.
methanol	Maximization test, OECD 406 (Guinea Pig): Not a skin sensitizer.
3-(trimethoxysilyl)propyl isocyanate	May cause sensitization by skin contact. May cause sensitization by inhalation. The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).
Germ Cell Mutagenicity	
In vitro	
Product:	gene mutation (OECD TG 471): negative
Components:	
1,3,5-tris[3-(trimethoxysilyl)propyl]-1,3,5-triazine-2,4,6(1H,3H,5H)-trione	gene mutation (OECD TG 471): negative
methanol	gene mutation (OECD 471): negative gene mutation (OECD 476): negative Micronucleus test: negative
3-(trimethoxysilyl)propyl isocyanate	Ames test (OECD Test Guideline 471): not conclusive (OECD TG 476)positive
In vivo	
Product:	No data available.
Components:	
1,3,5-tris[3-(trimethoxysilyl)propyl]-1,3,5-triazine-2,4,6(1H,3H,5H)-trione	No data available.

methanol	Micronucleus test Intraperitoneal (Mouse, male and female): negative Chromosomal aberration (OECD 474) Intraperitoneal (Mouse, male and female): negative
3-(trimethoxysilyl)propyl isocyanate	Micronucleus test (OECD TG 474) (Mouse): negative

Carcinogenicity

Product: An Expert Judgment stated that no classification is necessary based on present knowledge.

Components:

1,3,5-tris[3-(trimethoxysilyl)propyl]-1,3,5-triazine-2,4,6(1H,3H,5H)-trione
methanol

An Expert Judgment stated that no classification is necessary based on present knowledge.

Not classified

3-(trimethoxysilyl)propyl isocyanate

No data available.

Reproductive toxicity

Product: No data available.

Components:

1,3,5-tris[3-(trimethoxysilyl)propyl]-1,3,5-triazine-2,4,6(1H,3H,5H)-trione

No data available.

methanol

Not classified

3-(trimethoxysilyl)propyl isocyanate

no evidence of reproductiontoxic properties Based on available data, the classification criteria are not met. An Expert Judgment stated that no classification is necessary based on present knowledge.

Specific Target Organ Toxicity - Single Exposure

Product: Based on available data, the classification criteria are not met.

Components:

1,3,5-tris[3-(trimethoxysilyl)propyl]-1,3,5-triazine-2,4,6(1H,3H,5H)-trione

Not classified

methanol

optic nerve, Central nervous system. - Category 1

3-(trimethoxysilyl)propyl isocyanate

An Expert Judgment stated that no classification is necessary based on present knowledge. Based on available data, the classification criteria are not met.

Specific Target Organ Toxicity - Repeated Exposure

Product: Based on available data, the classification criteria are not met.

Components:

1,3,5-tris[3-(trimethoxysilyl)propyl]-1,3,5-triazine-2,4,6(1H,3H,5H)-trione

Not classified

methanol

Not classified

3-(trimethoxysilyl)propyl isocyanate

An Expert Judgment stated that no classification is necessary based on present knowledge. Based on available data, the classification criteria are not met.

Aspiration Hazard

Product:	No evidence of aspiration toxicity
Components:	
1,3,5-tris[3-(trimethoxysilyl)propyl]-1,3,5-triazine-2,4,6(1H,3H,5H)-trione methanol	No evidence of aspiration toxicity
3-(trimethoxysilyl)propyl isocyanate	Not classified
	An Expert Judgment stated that no classification is necessary based on present knowledge. Based on available data, the classification criteria are not met.

SECTION 12: Ecological information
12.1 Toxicity
Acute toxicity
Fish

Product:	LD 50 (species not listed, 96 h): > 100 mg/l (QSAR)
Components	
1,3,5-tris[3-(trimethoxysilyl)propyl]-1,3,5-triazine-2,4,6(1H,3H,5H)-trione methanol	LD 50 (species not listed, 96 h): > 100 mg/l (QSAR)
3-(trimethoxysilyl)propyl isocyanate	LC 50 (Lepomis macrochirus (Bluegill sunfish), 96 h): 15.400 mg/l (US-EPA) literature LC 50 (Oncorhynchus mykiss (rainbow trout), 96 h): > 100 mg/l (OECD Test Guideline 203)

Aquatic Invertebrates

Product:	EC 50 (Daphnia magna, 48 h): > 100 mg/l (OECD Test Guideline 202)
Components	
1,3,5-tris[3-(trimethoxysilyl)propyl]-1,3,5-triazine-2,4,6(1H,3H,5H)-trione methanol	EC 50 (Daphnia magna, 48 h): > 100 mg/l (OECD Test Guideline 202)
3-(trimethoxysilyl)propyl isocyanate	EC 50 (Daphnia magna (Water flea), 96 h): 18.260 mg/l (OECD 202) literature EC 50 (Daphnia magna (Water flea), 48 h): > 100 mg/l (OECD Test Guideline 202)

Toxicity to Aquatic Plants

Product:	No data available.
Components	
1,3,5-tris[3-(trimethoxysilyl)propyl]-1,3,5-triazine-2,4,6(1H,3H,5H)-trione methanol	No data available.
3-(trimethoxysilyl)propyl isocyanate	No data available. EC 50 (Desmodesmus subspicatus (green algae), 72 h): > 1.000 mg/l (Directive 67/548/EEC, Annex V, C.3.) The data are derived from the

evaluations or test results achieved with similar products (conclusion by analogy).

Toxicity to microorganisms

Product: No data available.

Components

1,3,5-tris[3-(trimethoxysilyl)propyl]-1,3,5-triazine-2,4,6(1H,3H,5H)-trione

methanol

3-(trimethoxysilyl)propyl isocyanate

No data available.

IC50 (Clarification sludge, 3 h): > 1.000 mg/l (OECD 209) literature
 EC 50 (3 h): > 1.000 mg/l (OECD Test Guideline 209) This information is derived from evaluation of or a test result for a similar compound (conclusion based on analogy).

Chronic Toxicity

Fish

Product: No data available.

Components

1,3,5-tris[3-(trimethoxysilyl)propyl]-1,3,5-triazine-2,4,6(1H,3H,5H)-trione

methanol

3-(trimethoxysilyl)propyl isocyanate

No data available.

No data available.

No data available.

Aquatic Invertebrates

Product: No data available.

Components

1,3,5-tris[3-(trimethoxysilyl)propyl]-1,3,5-triazine-2,4,6(1H,3H,5H)-trione

methanol

3-(trimethoxysilyl)propyl isocyanate

No data available.

No data available.

No data available.

Toxicity to Aquatic Plants

Product: No data available.

Components

1,3,5-tris[3-(trimethoxysilyl)propyl]-1,3,5-triazine-2,4,6(1H,3H,5H)-trione

methanol

3-(trimethoxysilyl)propyl isocyanate

No data available.

No data available.

No data available.

12.2 Persistence and Degradability

Biodegradation

Product: (28 d, OECD 301 B): 34 % Not readily degradable.

BOD/COD Ratio

Product: No data available.

Components

1,3,5-tris[3-(trimethoxysilyl)propyl]-1,3,5-triazine-2,4,6(1H,3H,5H)-trione	No data available.
methanol	No data available.
3-(trimethoxysilyl)propyl isocyanate	No data available.

12.3 Bioaccumulative potential

Product:	No data available.
-----------------	--------------------

12.4 Mobility in soil:	No data available.
-------------------------------	--------------------

12.5 Results of PBT and vPvB assessment:	Not a PBT, vPvB substance as per the criteria of the REACH Regulation.
---	--

1,3,5-tris[3-(trimethoxysilyl)propyl]-1,3,5-triazine-2,4,6(1H,3H,5H)-trione	Non-classified vPvB substance Non-classified PBT substance
methanol	Non-classified vPvB substance Non-classified PBT substance
3-(trimethoxysilyl)propyl isocyanate	Non-classified vPvB substance, Non-classified PBT substance

12.6 Other adverse effects:	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 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:	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.
--------------------------------	---

SECTION 14: Transport information
14.1 UN number

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 Transport in bulk according to Annex II of Marpol and the IBC Code

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

Regulation (EC) No. 2037/2000 Substances that deplete the ozone layer: none

EU. REACH Annex XIV, Substances Subject to Authorization: none

Regulation (EC) No. 850/2004 on persistent organic pollutants: none

Regulation (EC) No. 649/2012 Import and export of dangerous chemicals: none

EU. REACH Candidate List of Substances of Very High Concern for Authorization (SVHC): none

Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use:

Chemical name	CAS-No.	Concentration
methanol	67-56-1	0,1 - 1,0%

Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens and mutagens at work.:

none

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breast feeding.:

none

EU. Directive 2012/18/EU (SEVESO III) on major accident hazards involving dangerous substances, Annex I: Not applicable

EU. Regulation No. 166/2006 PRTR (Pollutant Release and Transfer Registry), Annex II: Pollutants: none

Directive 98/24/EC on the protection of workers from the risks related to chemical agents at work:

Chemical name	CAS-No.	Concentration
methanol	67-56-1	0,1 - 1,0%

15.2 Chemical safety assessment:

No substance-related safety assessment is necessary / has been conducted 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:

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; **ADN** - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; **AGW** - Occupational exposure limit; **ASTM** - American Society for Testing and Materials; **AwSV** - Ordinance on facilities for handling substances that are hazardous to water; **BSB** - Biochemical oxygen demand; **c.c.** - closed cup; **CAS** - Chemical Abstract Services; **CESIO** - European Committee of Organic Surfactants and their Intermediates; **CSB** - Chemical oxygen demand; **DMEL** - Derived minimum effect level; **DNEL** - Derived no effect level; **EbC50** - median concentration in terms of reduction of growth; **EC** - Effective concentration; **EINECS** - European Inventory of Existing Commercial Chemical Substances; **EN** - European norm; **ErC50** - median concentration in terms of reduction of growth rate; **GGVSEB** - German ordinance for road, rail and inland waterway transportation of dangerous goods; **GGVSee** - German ordinance for sea transportation of dangerous goods; **GLP** - Good Laboratory Practice; **GMO** - Genetic Modified Organism; **IATA** - International Air Transport Association; **ICAO** - International Civil Aviation Organization; **IMDG** - International Maritime Dangerous Goods; **ISO** - International Organization For Standardization; **LD/LC** - lethal dosis/concentration; **LOAEL** - Lowest observed adverse effect level; **LOEL** - Lowest observed effect level; **M-Factor** - multiplying factor; **NOAEL** - No observed adverse effect level; **NOEC** - no observed effect concentration; **NOEL** - no observed effect level; **o.c.** - open cup; **OECD** - Organisation for Economic Cooperation and Development; **OEL** - Occupational Exposure Limit; **PBT** - Persistent, bioaccumulative, toxic; **PNEC** - Predicted no effect concentration; **REACH** - REACH registration; **RID** - Convention concerning International Carriage by Rail; **SVHC** - Substances of Very High Concern; **TA** - Technical Instructions; **TRGS** - Technical Rules for Hazardous Substances; **vPvB** - very persistent, very bioaccumulative; **WGK** - Water Hazard Class

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

Wording of the H-statements in section 2 and 3

H225	Highly flammable liquid and vapor.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H370	Causes damage to organs.

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.