Page 1 of 19 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 20.05.2020 / 0003 Replacing version dated / version: 30.11.2016 / 0002 Valid from: 20.05.2020 PDF print date: 20.05.2020 beko MS-Flex transparent

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

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

1.1 Product identifier

(GB)

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1.2 Relevant identified uses of the substance or mixture and uses advised against Relevant identified uses of the substance or mixture:
Adhesive sealant
Uses advised against:
No information available at present.

1.3 Details of the supplier of the safety data sheet

beko GmbH Rappenfeldstr. 5 DE-86653 Monheim Tel. +49 (0) 9091 90898-0 Fax +49 (0) 9091 90898-29 www.beko-group.com

Qualified person's e-mail address: info@beko-group.com

1.4 Emergency telephone number

Emergency information services / official advisory body:

Poison Control Center Mainz - 24 hour emergency service - phone: +49 (0) 6131/19240

Telephone number of the company in case of emergencies:

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) 1272/2008 (CLP)

The mixture is not classified as dangerous in the terms of the Regulation (EC) 1272/2008 (CLP).

2.2 Label elements Labeling according to Regulation (EC) 1272/2008 (CLP)

EUH210-Safety data sheet available on request.

2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

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Page 2 of 19 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 20.05.2020 / 0003 Replacing version dated / version: 30.11.2016 / 0002 Valid from: 20.05.2020 PDF print date: 20.05.2020 beko MS-Flex transparent

SECTION 3: Composition/information on ingredients

3.1 Substance

n.a. 3 2 Mixture

Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, <0.03%	
aromatics	
Registration number (REACH)	01-2119827000-58-XXXX
Index	
EINECS, ELINCS, NLP	934-956-3 (REACH-IT List-No.)
CAS	
content %	5-15
Classification according to Regulation (EC) 1272/2008 (CLP)	Asp. Tox. 1, H304
Trimethoxyvinylsilane	
Registration number (REACH)	01-2119513215-52-XXXX
Index	
EINECS, ELINCS, NLP	220-449-8
CAS	2768-02-7
content %	1-2,5
Classification according to Regulation (EC) 1272/2008 (CLP)	Flam. Liq. 3, H226
	Acute Tox. 4, H332
3-(trimethoxysilyl)propylamine	
Registration number (REACH)	01-2119510159-45-XXXX

Registration number (REACH)	01-2119510159-45-XXXX
Index	
EINECS, ELINCS, NLP	237-511-5
CAS	13822-56-5
content %	1-2,5
Classification according to Regulation (EC) 1272/2008 (CLP)	Skin Irrit. 2, H315
	Eye Dam. 1, H318

Impurities, test data and additional information may have been taken into account in classifying and labelling the product.

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.

The substances named in this section are given with their actual, appropriate classification! For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

SECTION 4: First aid measures

4.1 Description of first aid measures

First-aiders should ensure they are protected!

Never pour anything into the mouth of an unconscious person!

Inhalation

Supply person with fresh air and consult doctor according to symptoms.

Skin contact

Wipe off residual product carefully with a soft, dry cloth.

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

Eye contact

Remove contact lenses.

Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

Ingestion

Rinse the mouth thoroughly with water.

Do not induce vomiting - give copious water to drink. Consult doctor immediately.

Upon contact with stomach acid development of:

Methanol

Page 3 of 19

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 20.05.2020 / 0003 Replacing version dated / version: 30.11.2016 / 0002 Valid from: 20.05.2020 PDF print date: 20.05.2020 beko MS-Flex transparent

4.2 Most important symptoms and effects, both acute and delayed

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1. The following may occur: Irritation of the eyes Skin irritation possible with prolonged contact. Development of:

Methanol

The following applies to this substance:

Product results in a poisonous effect.

Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

4.3 Indication of any immediate medical attention and special treatment needed

n.c.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Adapt to the nature and extent of fire.

Water jet spray / alcohol resistant foam / CO2 / dry extinguisher.

Unsuitable extinguishing media

None known

5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop: Oxides of carbon Toxic gases

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Protective respirator with independent air supply. According to size of fire Full protection, if necessary. Dispose of contaminated extinction water according to official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure sufficient supply of air. Avoid contact with eyes or skin. If applicable, caution - risk of slipping.

6.2 Environmental precautions

If leakage occurs, dam up. Resolve leaks if this possible without risk. Prevent from entering drainage system.

Prevent surface and ground-water infiltration, as well as ground penetration.

6.3 Methods and material for containment and cleaning up

Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth, sawdust) and dispose of according to Section 13.

Or:

Pick up mechanically and dispose of according to Section 13.

Flush residue using copious water. 6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

SECTION 7: Handling and storage

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

7.1 Precautions for safe handling

Page 4 of 19

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 20.05.2020 / 0003 Replacing version dated / version: 30.11.2016 / 0002 Valid from: 20.05.2020 PDF print date: 20.05.2020 beko MS-Flex transparent

7.1.1 General recommendations

Ensure good ventilation. Avoid contact with eyes. Avoid long lasting or intensive contact with skin. Eating, drinking, smoking, as well as food-storage, is prohibited in work-room. Observe directions on label and instructions for use.

7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

7.2 Conditions for safe storage, including any incompatibilities

Not to be stored in gangways or stair wells.

Store product closed and only in original packing.

Store in a well ventilated place.

Store in a dry place.

7.3 Specific end use(s)

No information available at present.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

The methanol listed below can arise upon contact with water.

Chemical Name	Methanol					Content %:
WEL-TWA: 200 ppm (266 mg/r	n3) (WEL), 200	WEL-STEL:	250 ppm (333 mg	/m3 (WEL)		
ppm (260 mg/m3) (EU)						
Monitoring procedures:	-	Compur - KITA-	119 SA (549 640)			
	-	Compur - KITA-	119 U (549 657)			
	-	Draeger - Alcoh	ol 25/a Methanol (8	31 01 631)		
		DFG (D) (Loesu	ngsmittelgemische	6), DFG (E) (Solver	nt mixture	es 6) - 1998,
				000/2002-16 card 65		
	-	Draeger - Alcoh	ol 100/a (CH 29 70	1)		
BMGV:			0	Other information:	Sk (WEL	., EU)
Chemical Name	Silica, amorphou	e				Content %:
	,				-	Content 70.
WEL-TWA: 6 mg/m3 (total inh.	dust), 2,4 mg/m3	WEL-STEL:				
(resp. dust)						

Monitoring procedures:			
BMGV:		Other information:	
Chemical Name	Diisononyl phthalate		Content %:
WEL-TWA: 5 mg/m3	WEL-STEL:		
Monitoring procedures:			
BMGV:		Other information:	

Area of application	Exposure route / Environmental compartment	Effect on health	Descripto r	Value	Unit	Note
	Environment - freshwater		PNEC	0,4	mg/l	Für entsprech endes Silantriol (Hydrolysp rodukt) ermittelt.

Page 5 of 19 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 20.05.2020 / 0003 Replacing version dated / version: 30.11.2016 / 0002 Valid from: 20.05.2020 PDF print date: 20.05.2020 beko MS-Flex transparent

	Environment - marine		PNEC	0,04	mg/l	Für entsprech endes Silantriol (Hydrolysp rodukt) ermittelt.
	Environment - water, sporadic (intermittent) release		PNEC	2,4	mg/l	Für entsprech endes Silantriol (Hydrolysp rodukt) ermittelt.
	Environment - sewage treatment plant		PNEC	6,6	mg/l	Für entsprech endes Silantriol (Hydrolysp rodukt) ermittelt.
	Environment - sediment, freshwater		PNEC	1,5	mg/kg dw	Für entsprech endes Silantriol (Hydrolysp rodukt) ermittelt.
	Environment - sediment, marine		PNEC	0,15	mg/kg dw	Für entsprech endes Silantriol (Hydrolysp rodukt) ermittelt.
	Environment - soil		PNEC	0,06	mg/kg dw	Für entsprech endes Silantriol (Hydrolysp rodukt) ermittelt.
Consumer	Human - dermal	Short term, systemic effects	DNEL	0,1	mg/kg bw/day	
Consumer	Human - dermal	Long term, systemic effects	DNEL	0,1	mg/kg bw/day	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	0,7	mg/m3	
Consumer	Human - oral	Long term, systemic effects	DNEL	0,1	mg/kg bw/day	
Consumer	Human - inhalation	Short term, systemic effects	DNEL	93,4	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	0,2	mg/kg bw/day	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	2,6	mg/m3	
Workers / employees	Human - inhalation	Short term, systemic effects	DNEL	4,9	mg/m3	

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3-(trimethoxysilyl)propylamine

Page 6 of 19 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 20.05.2020 / 0003 Replacing version dated / version: 30.11.2016 / 0002 Valid from: 20.05.2020 PDF print date: 20.05.2020 beko MS-Flex transparent

Area of application	Exposure route / Environmental compartment	Effect on health	Descripto r	Value	Unit	Note
	Environment - freshwater		PNEC	0,33	mg/l	
	Environment - marine		PNEC	0,033	mg/l	
	Environment - water, sporadic (intermittent) release		PNEC	3,3	mg/l	
	Environment - sediment, freshwater		PNEC	1,2	mg/kg dry weight	
	Environment - sediment, marine		PNEC	0,12	mg/kg dry weight	
	Environment - soil		PNEC	0,045	mg/kg dry weight	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	17	mg/m3	
Consumer	Human - dermal	Long term, systemic effects	DNEL	5	mg/kg bw/day	
Consumer	Human - oral	Long term, systemic effects	DNEL	5	mg/kg bw/day	
Workers / employees	Human - inhalation	Short term, systemic effects	DNEL	17,4	mg/m3	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	58	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	8,3	mg/kg bw/d	

Area of application	Exposure route / Environmental compartment	Effect on health	Descripto r	Value	Unit	Note
	Environment - freshwater		PNEC	154	mg/l	
	Environment - marine		PNEC	15,4	mg/l	
	Environment - sediment, freshwater		PNEC	570,4	mg/kg	
	Environment - sediment, marine		PNEC	57,04	mg/kg	
	Environment - soil		PNEC	23,5	mg/kg	
	Environment - water, sporadic (intermittent) release		PNEC	1540	mg/l	
	Environment - sewage treatment plant		PNEC	100	mg/l	
	Environment - freshwater		PNEC	20,8	mg/l	
	Environment - marine		PNEC	2,08	mg/l	
	Environment - sediment		PNEC	77	mg/kg	
	Environment - sediment		PNEC	7,7	mg/kg	
Consumer	Human - inhalation	Short term, local effects	DNEL	50	mg/m3	
Consumer	Human - inhalation	Long term, local effects	DNEL	50	mg/m3	
Consumer	Human - dermal	Short term, systemic effects	DNEL	8	mg/kg body weight/day	
Consumer	Human - inhalation	Short term, systemic effects	DNEL	50	mg/m3	
Consumer	Human - oral	Short term, systemic effects	DNEL	8	mg/kg body weight/day	

Page 7 of 19 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 20.05.2020 / 0003 Replacing version dated / version: 30.11.2016 / 0002 Valid from: 20.05.2020 PDF print date: 20.05.2020 beko MS-Flex transparent

Consumer	Human - dermal	Long term, systemic effects	DNEL	8	mg/kg body weight/day
Consumer	Human - inhalation	Long term, systemic effects	DNEL	50	mg/m3
Consumer	Human - oral	Long term, systemic effects	DNEL	8	mg/kg body weight/day
Workers / employees	Human - dermal	Short term, systemic effects	DNEL	40	mg/kg body weight/day
Workers / employees	Human - inhalation	Short term, systemic effects	DNEL	260	mg/m3
Workers / employees	Human - inhalation	Short term, local effects	DNEL	260	mg/m3
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	40	mg/kg body weight/day
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	260	mg/m3
Workers / employees	Human - inhalation	Long term, local effects	DNEL	260	mg/m3

Diisononyl phthalate		1				
Area of application	Exposure route /	Effect on health	Descripto	Value	Unit	Note
	Environmental		r			
	compartment					
	Environment - soil		PNEC	30	mg/kg	
	Environment - oral (animal feed)		PNEC	150	mg/kg	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	15,3	mg/m3	
Consumer	Human - dermal	Long term, systemic effects	DNEL	220	mg/kg	
Consumer	Human - oral	Long term, systemic effects	DNEL	4,4	mg/kg	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	366	mg/kg	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	51,72	mg/m3	

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany).

(8) = Inhalable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (9) = Respirable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (11) = Inhalable fraction (Directive 2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (Directive 2004/37/CE). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period).

(8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.

** = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision. (13) = The substance can cause sensitisation of the skin and of the respiratory tract (Directive 2004/37/CE), (14) = The substance can cause sensitisation of the skin (Directive 2004/37/CE).

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.

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Page 8 of 19 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 20.05.2020 / 0003 Replacing version dated / version: 30.11.2016 / 0002 Valid from: 20.05.2020 PDF print date: 20.05.2020 beko MS-Flex transparent

If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn. Applies only if maximum permissible exposure values are listed here.

Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and nonmetrological investigative techniques.

These are specified by e.g. BS EN 14042.

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BS EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".

8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable. Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection: With danger of contact with eyes. Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection: Chemical resistant protective gloves (EN 374). If applicable Rubber gloves (EN 374). Protective gloves made of butyl (EN 374). Protective nitrile gloves (EN 374). Minimum layer thickness in mm: 0,5 Permeation time (penetration time) in minutes: 480 Protective hand cream recommended.

The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions. The recommended maximum wearing time is 50% of breakthrough time.

Skin protection - Other: Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).

Respiratory protection: Normally not necessary. If OES or MEL is exceeded. Gas mask filter A (EN 14387), code colour brown Observe wearing time limitations for respiratory protection equipment.

Thermal hazards: Not applicable

Additional information on hand protection - No tests have been performed. In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents. Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account. Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use. The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

8.2.3 Environmental exposure controls

No information available at present.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state: Colour: Pastelike, Solid According to specification @B-

Page 9 of 19 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 20.05.2020 / 0003 Replacing version dated / version: 30.11.2016 / 0002 Valid from: 20.05.2020 PDF print date: 20.05.2020 beko MS-Flex transparent

Odour:

Odour threshold: pH-value: Melting point/freezing point: Initial boiling point and boiling range: Flash point: Evaporation rate: Flammability (solid, gas): Lower explosive limit: Upper explosive limit: Vapour pressure: Vapour density (air = 1): Density: Bulk density: Solubility(ies): Water solubility: Partition coefficient (n-octanol/water): Auto-ignition temperature: Decomposition temperature: Viscosity: Explosive properties: Oxidising properties:

9.2 Other information

Miscibility: Fat solubility / solvent: Conductivity: Surface tension: Solvents content:

Aromatic Not determined ~7 <-40 °C Not determined n.a. Not determined >440 °C n.a. n.a. Not determined n.a. 1-1,05 (relative density) Not determined Not determined Soluble Not determined Not determined Not determined >20,5 mm2/s Product is not explosive. No Not determined

Not determined Not determined Not determined 0 %

SECTION 10: Stability and reactivity

10.1 Reactivity

The product has not been tested. **10.2 Chemical stability** Stable with proper storage and handling. 10.3 Possibility of hazardous reactions No dangerous reactions are known. 10.4 Conditions to avoid See also section 7. Strong heat Protect from humidity. **10.5 Incompatible materials** See also section 7. Avoid contact with strong alkalis. Avoid contact with strong acids. **10.6 Hazardous decomposition products** See also section 5.2 On contact with moist air: Methanol

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Possibly more information on health effects, see Section 2.1 (classification).

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Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:						n.d.a.

Page 10 of 19	Degulation /	C) No 1007	2006 Appay II			
Safety data sheet according to		=C) No 1907/	2006, Annex II			
Revision date / version: 20.05.						
Replacing version dated / vers	ion: 30.11.20	16 / 0002				
Valid from: 20.05.2020						
PDF print date: 20.05.2020						
beko MS-Flex transparent						
Acute toxicity, by dermal						n.d.a.
route:						
Acute toxicity, by inhalation:	ATE	>20	mg/l/4h			calculated
······································						value, Vapours
Acute toxicity, by inhalation:	ATE	>5	mg/l/4h			calculated
foute toxicity, by initialation.		- 0	iiig/i/+ii			value, Dust
Skin corrosion/irritation:	+					n.d.a.
Serious eye						n.d.a.
						n.u.a.
damage/irritation:						-
Respiratory or skin						n.d.a.
sensitisation:						
Germ cell mutagenicity:						n.d.a.
Carcinogenicity:						n.d.a.
Reproductive toxicity:						n.d.a.
Specific target organ toxicity -						n.d.a.
single exposure (STOT-SE):						
Specific target organ toxicity -						n.d.a.
repeated exposure (STOT-						
RE):						
Aspiration hazard:						nda
						n.d.a.
Symptoms:						n.d.a.
Hydrocarbons, C15-C20, n-a						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 401 (Acute	
					Oral Toxicity)	
Acute toxicity, by dermal	LD50	>3160	mg/kg	Rabbit	OECD 402 (Acute	24h
route:					Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	>5266	mg/m3/4	Rat	OECD 403 (Acute	Aerosol
Notice toxicity, by initialation.	2000	+ 0200	h	i tut	Inhalation Toxicity)	71010301
Skin corrosion/irritation:	+				OECD 404 (Acute	Not irritant
Skin conosion/imation.						Notimiant
					Dermal	
					Irritation/Corrosion)	
Serious eye					OECD 405 (Acute	Not irritant
damage/irritation:					Eye	
					Irritation/Corrosion)	
Germ cell mutagenicity:					· · · · ·	Negative
Reproductive toxicity:						Negative
Aspiration hazard:						Yes
Symptoms:						vomiting, skin
Symptoms.						afflictions
		I				amictions
Trimethoxyvinylsilane						
					—	
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	7120	mg/kg	Rat	OECD 401 (Acute	
					Oral Toxicity)	
Acute toxicity, by dermal	LD50	3200	mg/kg	Rabbit	OECD 402 (Acute	
					Dermal Toxicity)	
route:		2773	ppm/4h	Rat	OECD 403 (Acute	Aerosol
	1 1 1 2 0		PP		Inhalation Toxicity)	
	LD50				OECD 403 (Acute	Vapours
Acute toxicity, by inhalation:		16.9	ma/l/4b	Rat		
Acute toxicity, by inhalation:	LC50	16,8	mg/l/4h	Rat		
Acute toxicity, by inhalation: Acute toxicity, by inhalation:		16,8	mg/l/4h		Inhalation Toxicity)	
Acute toxicity, by inhalation: Acute toxicity, by inhalation:		16,8	mg/l/4h	Rat Rabbit	Inhalation Toxicity) OECD 404 (Acute	
Acute toxicity, by inhalation: Acute toxicity, by inhalation:		16,8	mg/l/4h		Inhalation Toxicity) OECD 404 (Acute Dermal	
Acute toxicity, by inhalation: Acute toxicity, by inhalation: Skin corrosion/irritation:		16,8	mg/l/4h		Inhalation Toxicity) OECD 404 (Acute Dermal Irritation/Corrosion)	Slightly irritant
Acute toxicity, by inhalation: Acute toxicity, by inhalation: Skin corrosion/irritation:		16,8	mg/l/4h		Inhalation Toxicity) OECD 404 (Acute Dermal	
Acute toxicity, by inhalation: Acute toxicity, by inhalation: Skin corrosion/irritation: Serious eye		16,8	mg/l/4h	Rabbit	Inhalation Toxicity) OECD 404 (Acute Dermal Irritation/Corrosion) OECD 405 (Acute	Slightly irritant
Acute toxicity, by inhalation: Acute toxicity, by inhalation: Skin corrosion/irritation: Serious eye		16,8	mg/l/4h	Rabbit	Inhalation Toxicity) OECD 404 (Acute Dermal Irritation/Corrosion) OECD 405 (Acute Eye	Slightly irritant
Acute toxicity, by inhalation: Acute toxicity, by inhalation: Skin corrosion/irritation: Serious eye damage/irritation:		16,8	mg/l/4h	Rabbit Rabbit	Inhalation Toxicity) OECD 404 (Acute Dermal Irritation/Corrosion) OECD 405 (Acute Eye Irritation/Corrosion)	Slightly irritant
route: Acute toxicity, by inhalation: Acute toxicity, by inhalation: Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin sensitisation:		16,8	mg/l/4h	Rabbit	Inhalation Toxicity) OECD 404 (Acute Dermal Irritation/Corrosion) OECD 405 (Acute Eye	Slightly irritant

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Page 11 of 19 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 20.05.2020 / 0003 Replacing version dated / version: 30.11.2016 / 0002 Valid from: 20.05.2020 PDF print date: 20.05.2020 beko MS-Flex transparent

Germ cell mutagenicity:					OECD 471 (Bacterial Reverse Mutation Test)	Negative
Germ cell mutagenicity:					OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negative
Carcinogenicity:						Negative
Reproductive toxicity:	NOAEL	1000	mg/kg	Rat	OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Develop m. Tox. Screening Test)	Negative
Specific target organ toxicity - repeated exposure (STOT- RE):	NOAEL	10	mg/l	Rat	OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Develop m. Tox. Screening Test)	Vapours
Symptoms:						drowsiness, dizziness, nausea, abdominal pain, breathing difficulties, visual disturbances

3-(trimethoxysilyl)propylamine									
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes			
Acute toxicity, by oral route:	LD50	>2000	mg/kg	Rat	OECD 401 (Acute				
					Oral Toxicity)				
Acute toxicity, by dermal	LD50	>10000	mg/kg	Rabbit	OECD 402 (Acute				
route:					Dermal Toxicity)				
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Irritant			
					Dermal				
					Irritation/Corrosion)				
Serious eye				Rabbit	OECD 405 (Acute	Risk of serious			
damage/irritation:					Eye	damage to			
					Irritation/Corrosion)	eyes.			
Respiratory or skin				Guinea pig	OECD 406 (Skin	No (skin			
sensitisation:					Sensitisation)	contact)			
Germ cell mutagenicity:				Salmonella	OECD 471 (Bacterial	Negative,			
				typhimurium	Reverse Mutation	Analogous			
					Test)	conclusion			
Reproductive toxicity:	NOAEL	200	mg/kg	Rat	OECD 414 (Prenatal				
					Developmental				
					Toxicity Study)				

Methanol						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	ATE	300	mg/kg	Human being		Experiences on persons.
Acute toxicity, by dermal route:	LD50	17100	mg/kg	Rabbit		Does not conform with EU classification.
Acute toxicity, by inhalation:	LC50	85	mg/l/4h	Rat		Not relevant for classification., Vapours

Page 12 of 19 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 20.05.2020 / 0003 Replacing version dated / version: 30.11.2016 / 0002 Valid from: 20.05.2020 PDF print date: 20.05.2020 beko MS-Flex transparent

Serious eye	Rabbit	OECD 405 (Acute	Mild irritant
damage/irritation:		Eye	
		Irritation/Corrosion)	
Respiratory or skin	Guinea pig	OECD 406 (Skin	No (skin
sensitisation:		Sensitisation)	contact)
Germ cell mutagenicity:		OECD 471 (Bacterial	Negative
		Reverse Mutation	
		Test)	
Germ cell mutagenicity:	Mouse	OECD 474	Negative
		(Mammalian	
		Erythrocyte	
		Micronucleus Test)	
Carcinogenicity:	Mouse	OECD 453	Negative
		(Combined Chronic	
		Toxicity/Carcinogenicit	
		y Studies)	
Symptoms:			abdominal
			pain, vomiting,
			headaches,
			gastrointestinal
			disturbances,
			drowsiness,
			visual
			disturbances,
			watering eyes,
			nausea, mental
			confusion

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 423 (Acute	
					Oral Toxicity - Acute	
					Toxic Class Method)	
Acute toxicity, by dermal	LD50	> 2000	mg/kg	Rat	OECD 402 (Acute	
route:					Dermal Toxicity)	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Not irritant
					Dermal	
					Irritation/Corrosion)	
Serious eye				Rabbit	OECD 405 (Acute	Not irritant
damage/irritation:					Eye	
					Irritation/Corrosion)	
Germ cell mutagenicity:					OECD 471 (Bacterial	Negative
					Reverse Mutation	-
					Test)	
Aspiration hazard:						No

Diisononyl phthalate						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>10000	mg/kg	Rat	OECD 401 (Acute	
					Oral Toxicity)	
Acute toxicity, by dermal	LD50	>3160	mg/kg	Rabbit		
route:						
Acute toxicity, by inhalation:	LC50	>4,4	mg/l/4h	Rat	Limit-Test	Aerosol
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Not irritant
					Dermal	
					Irritation/Corrosion)	
Serious eye				Rabbit	OECD 405 (Acute	Not irritant
damage/irritation:					Eye	
					Irritation/Corrosion)	
Respiratory or skin				Guinea pig	Regulation (EC)	No (skin
sensitisation:					440/2008 B.6 (SKIN	contact)
					SENSITISATION)	

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Page 13 of 19
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revision date / version: 20.05.2020 / 0003
Replacing version dated / version: 30.11.2016 / 0002
Valid from: 20.05.2020
PDF print date: 20.05.2020
beko MS-Flex transparent

Germ cell mutagenicity:			(Ames-Test)	Negative
Symptoms:				diarrhoea,
				nausea and
				vomiting.

SECTION 12: Ecological information

Possibly more information on environmental effects, see Section 2.1 (classification).

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	•						n.d.a.
12.1. Toxicity to							n.d.a.
daphnia:							
12.1. Toxicity to algae:							n.d.a.
12.2. Persistence and							n.d.a.
degradability:							
12.3. Bioaccumulative							n.d.a.
potential:							
12.4. Mobility in soil:							n.d.a.
12.5. Results of PBT							n.d.a.
and vPvB assessment							
12.6. Other adverse							n.d.a.
effects:							

Hydrocarbons, C15-C2	Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, <0.03% aromatics											
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes					
12.1. Toxicity to fish:	LL50	96h	>1028	mg/l	Scophthalmus maximus	OECD 203 (Fish, Acute Toxicity Test)						
12.1. Toxicity to daphnia:	LL50	48h	>3193	mg/l	Acartia tonsa	ISO 14669						
12.1. Toxicity to algae:	ErL50	72h	>10000	mg/l	Skeletonema costatum	ISO 10253						
12.2. Persistence and degradability:		28d	74	%		OECD 306 (Biodegradability in Seawater)	Readily biodegradable					
12.3. Bioaccumulative potential:							Yes					
12.4. Mobility in soil:							Not to be expected					
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance					

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	191	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	28	mg/l	Daphnia magna	OECD 211 (Daphnia magna Reproduction Test)	
12.1. Toxicity to daphnia:	EC50	48h	169	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to algae:	NOEC/NOEL	72h	>957	mg/l	Scenedesmus subspicatus		88/302/EC

Page 14 of 19 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 20.05.2020 / 0003 Replacing version dated / version: 30.11.2016 / 0002 Valid from: 20.05.2020 PDF print date: 20.05.2020 beko MS-Flex transparent

12.1. Toxicity to algae:	EC50	72h	>100	mg/l	Selenastrum capricornutum	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:		28d	51	%		OECD 301 F (Ready Biodegradability - Manometric Respirometry Test)	Readily biodegradable
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
Toxicity to bacteria:	EC50	3h	>2500	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	>934	mg/l	Brachydanio rerio	OECD 203 (Fish, Acute Toxicity Test)	Analogous conclusion
12.1. Toxicity to daphnia:	EC50	48h	331	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	Analogous conclusion
12.1. Toxicity to algae:	EC50	72h	>1000	mg/l	Desmodesmus subspicatus	OEĆD 201 (Alga, Growth Inhibition Test)	Analogous conclusion
12.2. Persistence and degradability:		28d	67	%		Regulation (EC) 440/2008 C.4-A (DETERMINATI ON OF 'READY' BIODEGRADABI LITY - DOC DIE- AWAY TEST)	Not readily biodegradable, Analogous conclusion
12.3. Bioaccumulative potential:							No
12.4. Mobility in soil:							Slight
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
Toxicity to bacteria:	EC50		3400	mg/l	activated sludge		
Toxicity to bacteria:	EC10		13	mg/l	Pseudomonas putida		Analogous conclusion5,75 h
Toxicity to bacteria:	EC50		43	mg/l	Pseudomonas putida		Analogous conclusion5,75 h

Methanol							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Other information:	Log Pow		-0,77				
12.5. Results of PBT							No PBT
and vPvB assessment							substance, No
							vPvB substance

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Page 15 of 19 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 20.05.2020 / 0003 Replacing version dated / version: 30.11.2016 / 0002 Valid from: 20.05.2020 PDF print date: 20.05.2020 beko MS-Flex transparent

12.1. Toxicity to fish:	LC50	96h	15400	mg/l	Lepomis macrochirus		
12.1. Toxicity to daphnia:	EC50	96h	18260	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to algae:	EC50	96h	22000	mg/l	Pseudokirchnerie Ila subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:		28d	99	%		OECD 301 D (Ready Biodegradability - Closed Bottle Test)	Readily biodegradable
12.3. Bioaccumulative potential:	BCF		28400		Chlorella vulgaris		Not to be expected
Toxicity to bacteria:	IC50	3h	>1000	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	
Other information:	DOC		<70	%			
Other information:	BOD		>60	%			

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	EC0	96h	>10000	mg/l	Brachydanio rerio	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia:	EC0	24h	>1000	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to algae:	ErC50	72h	>=1000 0	mg/l	Scenedesmus subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:							Inorganic products cannot be eliminated from water through biological purification methods.
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance

Diisononyl phthalate							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	>102	mg/l	Brachydanio rerio	92/69/EC	
12.1. Toxicity to	EC50	48h	>=74	mg/l	Daphnia magna	84/449/EEC C.2	
daphnia:							

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Page 16 of 19 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 20.05.2020 / 0003 Replacing version dated / version: 30.11.2016 / 0002 Valid from: 20.05.2020 PDF print date: 20.05.2020 beko MS-Flex transparent

12.1. Toxicity to daphnia:	NOEC/NOEL	21d	>=100	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to algae:	NOEC/NOEL	72h	88	mg/l	Scenedesmus subspicatus	,	
12.1. Toxicity to algae:	EC50	72h	>88	mg/l	Scenedesmus subspicatus	84/449/EEC C.3	
12.2. Persistence and degradability:		28d	81	%	activated sludge	Regulation (EC) 440/2008 C.4-C (DETERMINATI ON OF 'READY' BIODEGRADABI LITY - CO2 EVOLUTION TEST)	Readily biodegradable
12.3. Bioaccumulative potential:	Log Kow		8,8-9,7			OECD 117 (Partition Coefficient (n- octanol/water) - HPLC method)	Analogous conclusion
12.3. Bioaccumulative potential:	BCF	14d	<3			,	Analogous conclusion
12.4. Mobility in soil:	Koc		>5000				
12.4. Mobility in soil:	H (Henry)		0,00000 149	atm*m3/ mol			
Toxicity to bacteria:	EC50	30min	>83,9	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	
Other organisms:	NOEC/NOEL	56d	>982,4	mg/kg	Eisenia foetida	,,,	
Other organisms:	LC50	14d	>7372	mg/kg	Eisenia foetida	OECD 207 (Earthworm, Acute Toxicity Tests)	

SECTION 13: Disposal considerations

13.1 Waste treatment methods

For the substance / mixture / residual amounts

EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product. Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2014/955/EU) 08 04 10 waste adhesives and sealants other than those mentioned in 08 04 09 Recommendation: Sewage disposal shall be discouraged. Pay attention to local and national official regulations. E.g. suitable incineration plant. Hardened product: E.g. dispose at suitable refuse site. **For contaminated packing material** Pay attention to local and national official regulations.

15 01 01 paper and cardboard packaging

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Page 17 of 19	
Safety data sheet according to Regulation (EC) N	o 1907/2006, Annex II
Revision date / version: 20.05.2020 / 0003	
Replacing version dated / version: 30.11.2016 / 0	002
Valid from: 20.05.2020	
PDF print date: 20.05.2020	
beko MS-Flex transparent	
15 01 02 plastic packaging	
Empty container completely.	
Uncontaminated packaging can be recycled. Dispose of packaging that cannot be cleaned in th	e same manner as the substance.
	ON 14: Transport information
General statements	
14.1. UN number:	n.a.
Transport by road/by rail (ADR/RID)	
14.2. UN proper shipping name:	
14.3. Transport hazard class(es):	n.a.
14.4. Packing group:	n.a.
Classification code:	n.a.
LQ:	n.a.
14.5. Environmental hazards:	Not applicable
Tunnel restriction code:	
Transport by sea (IMDG-code)	
14.2. UN proper shipping name:	
14.3. Transport hazard class(es):	n.a.
14.4. Packing group:	n.a.
Marine Pollutant:	n.a
14.5. Environmental hazards:	Not applicable
	Not applicable
Transport by air (IATA)	
14.2. UN proper shipping name:	
14.3. Transport hazard class(es):	n.a.
14.4. Packing group:	n.a.
14.5. Environmental hazards:	Not applicable
14.6. Special precautions for user	
Unless specified otherwise, general measures for	safe transport must be followed.
14.7. Transport in bulk according to A	Annex II of MARPOL and the IBC Code
Non-dangerous material according to Transport R	
SECTI	ON 15: Regulatory information
	
15.1 Safety, health and environmenta	I regulations/legislation specific for the substance or mixture
Observe restrictions:	
-	naternity protection (national implementation of the Directive 92/85/EEC)!
General hygiene measures for the handling of che	
,,,	
Directive 2010/75/EU (VOC):	0 %
Directive 2010/75/EU (VOC):	0 g/l
15.2 Chemical safety assessment	
A chemical safety assessment is not provided for	mixtures.
ee.	TION 16: Other information
3EC	
Revised sections:	8
Classification and processors used to	dovive the electricities of the minture in accordance with
•	derive the classification of the mixture in accordance with
the ordinance (EG) 1272/2008 (CLP):	
Not applicable	
The following phrases represent the pasted lists	rd Class and Rick Catagory Code (CUS/CLD) of the product and the constituents
	rd Class and Risk Category Code (GHS/CLP) of the product and the constituents
(specified in Section 2 and 3).	

H226 Flammable liquid and vapour.

Page 18 of 19 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 20.05.2020 / 0003 Replacing version dated / version: 30.11.2016 / 0002 Valid from: 20.05.2020 PDF print date: 20.05.2020 beko MS-Flex transparent

H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H318 Causes serious eye damage. H332 Harmful if inhaled.

Asp. Tox. — Aspiration hazard Flam. Liq. — Flammable liquid Acute Tox. — Acute toxicity - inhalation Skin Irrit. — Skin irritation Eye Dam. — Serious eye damage

Any abbreviations and acronyms used in this document:

acc., acc. to according, according to ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road) AOX Adsorbable organic halogen compounds approx. approximately Art., Art. no. Article number ASTM ASTM International (American Society for Testing and Materials) BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany) BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany) BSEF The International Bromine Council bw body weight CAS **Chemical Abstracts Service** CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures) CMR carcinogenic, mutagenic, reproductive toxic DMEL Derived Minimum Effect Level DNEL Derived No Effect Level dw dry weight for example (abbreviation of Latin 'exempli gratia'), for instance e.g. EC European Community ECHA European Chemicals Agency EEC European Economic Community EINECS European Inventory of Existing Commercial Chemical Substances ELINCS European List of Notified Chemical Substances EN European Norms EPA United States Environmental Protection Agency (United States of America) etc. et cetera EU European Union EVAL Ethylene-vinyl alcohol copolymer Fax. Fax number general gen. Globally Harmonized System of Classification and Labelling of Chemicals GHS GWP Global warming potential IARC International Agency for Research on Cancer IATA International Air Transport Association IBC (Code) International Bulk Chemical (Code) IMDG-code International Maritime Code for Dangerous Goods incl. includina. inclusive IUCLIDInternational Uniform Chemical Information Database Limited Quantities LQ MARPOL International Convention for the Prevention of Marine Pollution from Ships n.a. not applicable not available n.av. not checked n.c. n.d.a. no data available OECD Organisation for Economic Co-operation and Development org. organic

Page 19 of 19 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 20.05.2020 / 0003 Replacing version dated / version: 30.11.2016 / 0002 Valid from: 20.05.2020 PDF print date: 20.05.2020 beko MS-Flex transparent PBT persistent, bioaccumulative and toxic Polvethvlene PE PNEC Predicted No Effect Concentration ppm parts per million PVC Polyvinylchloride REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals) REACH-IT List-No. 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT. RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail) SVHC Substances of Very High Concern Tel. Telephone **UN RTDG** United Nations Recommendations on the Transport of Dangerous Goods VOC Volatile organic compounds vPvB very persistent and very bioaccumulative wwt wet weight

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge. No responsibility.

(GB)