

Revision Date: 02.10.2024 Date of last issue: - Version 1.0

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

1.1 Product identifier

Trade name	:	Sikalastic [®] M 689 (Formerly MSeal M 689) Part B
REACH Registration Number	:	01-2119457015-45-XXXX
Substance name	:	Reaction mass of 4,4'-methylenediphenyl diisocyanate and o- (pisocyanatobenzyl) phenyl isocyanate
EC-No.	:	905-806-4

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

Product use	: Polyurethane coating, Sealing system, For professional users
	only.

1.3 Details of the supplier of the safety data sheet

Company name of supplier	:	Sika Schweiz AG Tüffenwies 16 8048 Zürich
Telephone	:	+41 58 436 40 40
Telefax	:	-
E-mail address of person responsible for the SDS	:	EHS@ch.sika.com

1.4 Emergency telephone number

Tox Info Suisse CH-8028 Zurich +41(0)44 251 51 51 / Speed calling: 145

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Acute toxicity, Category 4	H332: Harmful if inhaled.
Skin irritation, Category 2	H315: Causes skin irritation.
Eye irritation, Category 2	H319: Causes serious eye irritation.
Respiratory sensitisation, Category 1	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.

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Carcinogenicity, Categor	y 2		H351: Suspected of causing cancer.			
Specific target organ toxi posure, Category 3, Resp			H335: May cause respirato	ry irritation.		
Specific target organ toxi exposure, Category 2	Specific target organ toxicity - repeated exposure, Category 2			H373: May cause damage to organs through pro- longed or repeated exposure if inhaled.		
2.2 Label elements						
Labelling (REGULATIO	N (EC)	No 1272/200)8)			
Hazard pictograms	:					
Signal word	:	Danger	·			
Hazard statements	:	H315 H317 H319 H332 H334 H335 H351 H373	Causes skin irritation. May cause an allergic skin Causes serious eye irritation Harmful if inhaled. May cause allergy or asthr ing difficulties if inhaled. May cause respiratory irritat Suspected of causing can May cause damage to org or repeated exposure if inh	on. ma symptoms or breath- ation. cer. ans through prolonged		
Precautionary statements	S :	Prevention P201 P260 P264 P280 Response	Obtain special instruc Do not breathe mist of Wash skin thoroughly Wear protective glove eye protection/ face p	or vapours. / after handling. es/ protective clothing/		
		P304 + P34		emove person to fresh		
		P342 + P3	air and keep comforta POISON CENTER/ d	able for breathing. Call a loctor if you feel unwell. atory symptoms: Call a		
Additional Labelling						
	n 24 Au al use."		dequate training is required I	before industrial or pro-		

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

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Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1 Substances

CAS-No. : 9016-87-9

Components

Chemical name	CAS-No. EC-No.	Concentration (% w/w)	M-Factor, SCL, ATE
Reaction mass of 4,4'- methylenediphenyl diisocy- anate and o- (pisocyanatobenzyl) phenyl isocyanate	9016-87-9 905-806-4	100	specific concentration limit Eye Irrit. 2; H319 >= 5 % STOT SE 3; H335 >= 5 % Skin Irrit. 2; H315 >= 5 % Resp. Sens. 1; H334 >= 0,1 % Acute toxicity estimate Acute inhalation toxici- ty (dust/mist): 2,24 mg/l

SECTION 4: First aid measures

4.1 Description of first aid measures

1

General advice

Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance.



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If inhaled	:	Move to fresh air. Consult a physician after significant exp	posure.
In case of skin contact	:	Take off contaminated clothing and sho Wash off with soap and plenty of water. If symptoms persist, call a physician.	
In case of eye contact	:	Immediately flush eye(s) with plenty of Remove contact lenses. Keep eye wide open while rinsing. If eye irritation persists, consult a specia	
If swallowed	:	Do not induce vomiting without medical Rinse mouth with water. Do not give milk or alcoholic beverages Never give anything by mouth to an unc	s.
4.2 Most important symptoms	and e	effects, both acute and delayed	
Symptoms	:	Asthmatic appearance Cough Respiratory disorder Allergic reactions Excessive lachrymation Erythema Headache Dermatitis See Section 11 for more detailed inform and symptoms.	nation on health effects
Risks	:	irritant effects sensitising effects	
		Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. May cause allergy or asthma symptoms ties if inhaled. May cause respiratory irritation. Suspected of causing cancer. May cause damage to organs through p exposure if inhaled.	-
4.3 Indication of any immedia	te mee	dical attention and special treatment n	eeded
Treatment	:	Treat symptomatically.	

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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	:	In case of fire, use water/water spray/water jet/carbon diox- ide/sand/foam/alcohol resistant foam/chemical powder for extinction.
5.2 Special hazards arising from	the	e substance or mixture

Hazardous combustion prod-	:	No hazardous combustion products are known
ucts		

5.3 Advice for firefighters

Special protective equipment for firefighters	:	In the event of fire, wear self-contained breathing apparatus.
Further information	:	Standard procedure for chemical fires.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Personal precautions Use personal protective equipment. : Deny access to unprotected persons. 6.2 Environmental precautions **Environmental precautions** Do not flush into surface water or sanitary sewer system. : If the product contaminates rivers and lakes or drains inform respective authorities. 6.3 Methods and material for containment and cleaning up Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling	:	Avoid formation of aerosol.
		Avoid exceeding the given occupational exposure limits (see
		section 8).
		Do not get in eyes, on skin, or on clothing.
		For personal protection see section 8.



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		Persons with a history of skin sensitisation prob ma, allergies, chronic or recurrent respiratory d not be employed in any process in which this m used. Smoking, eating and drinking should be prohibi plication area. Provide sufficient air exchange and/or exhaust Follow standard hygiene measures when hand products	isease should hixture is being ted in the ap- in work rooms.
Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.	
Hygiene measures	:	Handle in accordance with good industrial hygic practice. When using do not eat or drink. When smoke. Wash hands before breaks and at the e	using do not
7.2 Conditions for safe storage, i	nc	luding any incompatibilities	
Requirements for storage areas and containers	:	Keep container tightly closed in a dry and well- place. Containers which are opened must be ca sealed and kept upright to prevent leakage. Sto ance with local regulations.	arefully re-
Further information on stor- age stability	:	No decomposition if stored and applied as direc	cted.
7.3 Specific end use(s)			
Specific use(s)	:	Cleaning with aprotic polar solvents must be av Consult most current local Product Data Sheet use.	

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters *	Basis *
Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(pisocyanatobenzyl) phenyl isocyanate	9016-87-9	TWA	0,02 mg/m3 (NCO)	CH SUVA
	can lead to ver	ation: Sensitizers; S y strong allergic rea pational Medicine ar	actions., Health ar	nd Safety Ex-
		STEL	0,02 mg/m3 (NCO)	CHSUVA



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*The above mentioned values are in accordance with the legislation in effect at the date of the release of this safety data sheet.

8.2 Exposure controls

Engineering measures

Maintain air concentrations below occupational exposure standards. Ensure adequate ventilation, especially in confined areas.

Personal protective equipme	nt	
Eye/face protection	:	Safety glasses with side-shields conforming to EN166 Eye wash bottle with pure water
Hand protection	:	Chemical-resistant, impervious gloves complying with an ap- proved standard must be worn at all times when handling chemical products. Reference number EN 374. Follow manu- facturer specifications.
		Suitable for short time use or protection against splashes: Butyl rubber/nitrile rubber gloves (> 0,1 mm) Contaminated gloves should be removed. Suitable for permanent exposure: Viton gloves (0.4 mm), breakthrough time >30 min.
Skin and body protection	:	Protective clothing (e.g. Safety shoes acc. to EN ISO 20345, long-sleeved working clothing, long trousers). Rubber aprons and protective boots are additionally recommended for mixing and stirring work.
Respiratory protection	:	In case of inadequate ventilation wear respiratory protection. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe work- ing limits of the selected respirator. Use a properly fitted NIOSH approved air-purifying or air-fed respirator complying with an approved standard if a risk as- sessment indicates this is necessary. organic vapor filter (Type A) A1: < 1000 ppm; A2: < 5000 ppm; A3: < 10000 ppm Ensure adequate ventilation. This can be achieved by local exhaust extraction or by general ventilation. (EN 689 - Meth- ods for determining inhalation exposure). This applies in par- ticular to the mixing / stirring area. In case this is not sufficent to keep the concentrations under the occupational exposure limits then respiration protection measures must be used. Ensure adequate ventilation, especially in confined areas.
Environmental exposure con	tro	bls

General advice	: Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities.
	•

:

:

:

:

liquid

viscous

aliphatic

light yellow

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

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Physical state

Appearance

Colour

Odour

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Boiling point/boiling range:No data availableFlammability (solid, gas):No data availableUpper/lower flammability or versive limits upper explosion limit / Up- per flammability limit:No data availableLower explosion limit / Up- ic uwer flammability limit:No data availableLower explosion limit / Up- ic uwer flammability limit:No data availableFlash point:No data availableAuto-ignition temperature:No data availableDecomposition temperature:No data availablepH:No data availableViscosity Viscosity, dynamic:No data availableSolubility(ies) Water solubility::No data available::	Melting point/ range / Freez- ing point	:	No data available
Upper/lower flammability or explosion limit / Up- per flammability limitNo data availableLower explosion limit / Lower flammability limitNo data availableFlash pointNo data availableAuto-ignition temperatureNo data availableDecomposition temperatureNo data availablepHNo data availableViscosity Viscosity, dynamicNo data availableSolubility(ies)No data available	Boiling point/boiling range	:	No data available
Upper explosion limit / Up- per flammability limit:No data availableLower explosion limit / Lower flammability limit:No data availableFlash point:No data availableAuto-ignition temperature:No data availableDecomposition temperature:No data availablepH:No data availableViscosity Viscosity, dynamic:Not applicable substance/mixture is non-soluble (in water)Viscosity, kinematic:No data availableSolubility(ies):No data available	Flammability (solid, gas)	:	No data available
Upper explosion limit / Up- per flammability limit:No data availableLower explosion limit / Lower flammability limit:No data availableFlash point:No data availableAuto-ignition temperature:No data availableDecomposition temperature:No data availablepH:No data availableViscosity Viscosity, dynamic:Not applicable substance/mixture is non-soluble (in water)Viscosity, kinematic:No data availableSolubility(ies):No data available	Upper/lower flammability or	exp	losive limits
Lower flammability limit Flash point Flash point Auto-ignition temperature i Decomposition temperature i No data available pH i Viscosity Viscosity, dynamic i i ki i No data available i i Not applicable substance/mixture is non-soluble (in water) Viscosity, dynamic i ki No data available i No data available i Not applicable substance/mixture is non-soluble (in water) ki ki i No data available i i i	Upper explosion limit / Up-		
Auto-ignition temperature : No data available Decomposition temperature : No data available pH : Not applicable substance/mixture is non-soluble (in water) Viscosity Viscosity, dynamic : ca. 1.000 mPa.s (20 °C) Viscosity, kinematic : No data available Solubility(ies) : No data available		:	No data available
Decomposition temperature : PH : Not applicable substance/mixture is non-soluble (in water) Viscosity Viscosity, dynamic : Ca. 1.000 mPa.s (20 °C) Viscosity, kinematic : No data available Solubility(ies)	Flash point	:	Not applicable
pH : Not applicable substance/mixture is non-soluble (in water) Viscosity, dynamic : ca. 1.000 mPa.s (20 °C) Viscosity, kinematic : No data available Solubility(ies)	Auto-ignition temperature	:	No data available
Viscosity : ca. 1.000 mPa.s (20 °C) Viscosity, kinematic : No data available Solubility(ies) : :	Decomposition temperature	:	No data available
Viscosity, dynamic : ca. 1.000 mPa.s (20 °C) Viscosity, kinematic : No data available Solubility(ies)	рН	:	
Viscosity, kinematic : No data available Solubility(ies)	Viscosity		
Solubility(ies)	Viscosity, dynamic	:	ca. 1.000 mPa.s (20 °C)
	Viscosity, kinematic	:	No data available
	Solubilitv(ies)		
		:	insoluble





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Partition coefficient: n- octanol/water	:	No data available	
Vapour pressure	:	0,01 hPa	
Density	:	ca. 1,11 g/cm3 (20 °C)	
Relative vapour density	:	No data available	
Particle characteristics	:	No data available	
No data available SECTION 10: Stability and r	eacti	vity	
10.1 Reactivity			
No dangerous reaction kno	wn uno	der conditions of normal use.	
10.2 Chemical stability			
The product is chemically s			
10.3 Possibility of hazardous			
Hazardous reactions	:	No hazards to be specially mentioned.	
10.4 Conditions to avoid			
Conditions to avoid	:	No data available	
10.5 Incompatible materials			
10.5 Incompatible materials			

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Harmful if inhaled.



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Components:

Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(pisocyanatobenzyl) phenyl isocyanate:

Acute inhalation toxicity	:	LC50 (Rat): > 2,24 mg/l Exposure time: 4 h
		Test atmosphere: dust/mist

Acute toxicity estimate: 2,24 mg/l Test atmosphere: dust/mist Method: ATE value derived from LD50/LC50 value

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Germ cell mutagenicity

Not classified due to lack of data.

Carcinogenicity

Suspected of causing cancer.

Reproductive toxicity

Not classified due to lack of data.

STOT - single exposure

May cause respiratory irritation.

STOT - repeated exposure

May cause damage to organs through prolonged or repeated exposure if inhaled.

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Aspiration toxicity

Not classified due to lack of data.

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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SECTION 12: Ecological information

12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment

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

12.6 Endocrine disrupting properties

Product:

Assessment	:	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher
		levels of 0.1% or higher.

12.7 Other adverse effects

Product:

Additional ecological infor- : There is no data available for this product. mation

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product	 The generation of waste should be avoided or minimized wherever possible.
	Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe
	way.
	Dispose of surplus and non-recyclable products via a licensed waste disposal contractor.



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	Disposal of this product, solutions and at all times comply with the requirement protection and waste disposal legislat local authority requirements. Avoid dispersal of spilled material and soil, waterways, drains and sewers.	ents of environmental tion and any regional
Waste code Switzerland VeVA/LVA	: 08 05 01 [S] waste isocyanates	

SECTION 14: Transport information

14.1 UN number or ID number				
ADR	:	Not regulated as a dangerous good		
IMDG	:	Not regulated as a dangerous good		
ΙΑΤΑ	:	Not regulated as a dangerous good		
14.2 UN proper shipping name				
ADR	:	Not regulated as a dangerous good		
IMDG	:	Not regulated as a dangerous good		
ΙΑΤΑ	:	Not regulated as a dangerous good		
14.3 Transport hazard class(es)				
ADR	:	Not regulated as a dangerous good		
IMDG	:	Not regulated as a dangerous good		
ΙΑΤΑ	:	Not regulated as a dangerous good		
14.4 Packing group				
ADR	:	Not regulated as a dangerous good		
IMDG	:	Not regulated as a dangerous good		
IATA (Cargo)	:	Not regulated as a dangerous good		
IATA (Passenger)	:	Not regulated as a dangerous good		
14.5 Environmental hazards Not regulated as a dangerous good				
14.6 Special precautions for use Not applicable	er			

Not applicable for product as supplied.

14.7 Maritime transport in bulk according to IMO instruments

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SECTION 15: Regulatory information

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

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International Chemical Weapons Convention (CWC) : Not applicable Schedules of Toxic Chemicals and Precursors **REACH Information:** All substances contained in our Products are - registered by our upstream suppliers, and/or - registered by us, and/or - excluded from the regulation, and/or - exempted from the registration. : Conditions of restriction for the fol-REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, lowing entries should be considered: mixtures and articles (Annex XVII) Number on list 3 Number on list 56: Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(pisocyanatobenzyl) phenyl isocyanate Number on list 74: Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(pisocyanatobenzyl) phenyl isocyanate REACH - Candidate List of Substances of Verv High None of the components are listed Concern for Authorisation (Article 59). (=> 0.1 %). REACH - List of substances subject to authorisation ÷ Not applicable (Annex XIV) Regulation (EC) on substances that deplete the ozone Not applicable layer Regulation (EU) 2019/1021 on persistent organic pollu-Not applicable : tants (recast) PIC Ordinance, ChemPICO (814.82) Not applicable Ordinance on Protection against Major Accidents Threshold quantity according to Major Accidents Ordi-: 20.000 kg nance (MAO 814.012)



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Chemical Risk Reduction Ordinance (ORRChem, SR 814.81)		Conditions of restriction for the should be considered: Annex 1.11 Dangerous liquid Reaction mass of 4,4'-methyl and o-(pisocyanatobenzyl) pl 2.9 Plastics and additives	substances lenediphenyl diisocyanate
Waters Protection Ordinance (V	VPO 814.2	01)	
Water pollution class	Code N	hazardous to water umber: 9.393 cation according to AwSV §6(4)	
Volatile organic compounds	: Law on (VOCV) no VOC		anic compounds
		e 2010/75/EU of 24 November 2 ns (integrated pollution preventi licable	

Other regulations:

Article 13 Maternity ordinance (SR 822.111.52): Expectant and nursing mothers are only permitted to come into contact with this product during the course of their work if, based on a risk assessment carried out in accordance with Article 63 of Ordinance 1 on the Employment Act (ArGV 1) (SR 822.111), the chemicals in question have been found not to cause any specific harm to mothers or children or if such harm can be ruled out by taking appropriate protective measures.

Young people undergoing basic vocational training may only work with this product if the relevant training ordinance makes provision for them to do so with a view to enabling them to achieve their training objectives and if the preconditions for the training plan have been met and the applicable age restrictions have been complied with. Young people who are not completing any basic vocational training are not permitted to work with this product. Employees of either sex who are under 18 years old are classed as young people.

15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance by the supplier.

SECTION 16: Other information

Full text of other abbreviations

CH SUVA	:	Switzerland. Limit values at the work place
CH SUVA / TWA	:	Time Weighted Average
CH SUVA / STEL	:	Short Term Exposure Limit
ADR	:	European Agreement concerning the International Carriage of
		Dangerous Goods by Road
CAS	:	Chemical Abstracts Service



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DNEL	: Derived no-effect level
EC50	: Half maximal effective concentration
GHS	: Globally Harmonized System
ΙΑΤΑ	: International Air Transport Association
IMDG	: International Maritime Code for Dangerous Goods
LD50	: Median lethal dosis (the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals)
LC50	 Median lethal concentration (concentrations of the chemical in air that kills 50% of the test animals during the observation period)
MARPOL	 International Convention for the Prevention of Pollution from Ships, 1973 as modified by the Protocol of 1978
OEL	: Occupational Exposure Limit
PBT	: Persistent, bioaccumulative and toxic
PNEC	: Predicted no effect concentration
REACH	: Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Reg- istration, Evaluation, Authorisation and Restriction of Chemi- cals (REACH), establishing a European Chemicals Agency
SVHC	: Substances of Very High Concern
vPvB	: Very persistent and very bioaccumulative

Further information

The information contained in this Safety Data Sheet corresponds to our level of knowledge at the time of publication. All warranties are excluded. Our most current General Sales Conditions shall apply. Please consult the product data sheet prior to any use and processing.

Changes as compared to previous version !

CH / EN