18.07.2023	Kit components	
Product code	Description	
852	PU schuim A+B	
Components:		
850	PU schuim component A	
851	PU schuim component B	



Revision: 12.06.2023

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

· 1.1 Product identifier	
· Trade name:	PU schuim component A
· Article number: · UFI:	850 KRS0-C06J-H005-6RQX
 1.2 Relevant identified uses of t Sector of Use 	he substance or mixture and uses advised against SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen) SU19 Building and construction work
 Process category Environmental release category 	PROC19 Manual activities involving hand contact ERC5 Use at industrial site leading to inclusion into/onto article ERC8c Widespread use leading to inclusion into/onto article (indoor) ERC8f Widespread use leading to inclusion into/onto article (outdoor)
 Article category Application of the substance / the mixture 	AC13 Plastic articles See our technical datasheet for application details of this product. Polyurethane casting foam
• 1.3 Details of the supplier of the • Manufacturer/Supplier:	e safety data sheet De IJssel Coatings BV, Centrumbaan 960, NL 2841 MH Moordrecht Tel: +31 182 372177, E-mail: info@de-ijssel-coatings.nl
 Further information obtainable from: 1.4 Emergency telephone 	Research and Development.
number:	De IJssel Coatings BV, Tel. +31 182 372177, E-mail: safety@de-ijssel-coatings.nl Office hours: working days from 08:00 to 17:00 hrs.

SECTION 2: Hazards identification

 • 2.1 Classification of the substant • Classification according to Regulation (EC) No 1272/2008 	nce or mixture The product is not classified, according to the CLP regulation.
2.2 Label elements	
 Labelling according to Regulation 	
(EC) No 1272/2008	Void
 Hazard pictograms 	Void
· Signal word	Void
 Hazard statements 	Void
 Additional information: 	EUH210 Safety data sheet available on request.
• 2.3 Other hazards	
 Results of PBT and vPvB assess 	nent
· PBT:	Not applicable.
· vPvB:	Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures · Description:

Mixture of substances listed below with nonhazardous additions.

· Dangerous components:		
	tris(2-chlorisopropyl)-phosphate	10 – 25%
	O Acute Tox. 4, H302; Aquatic Chronic 3, H412	
Reg.nr.: 01-2119480419-30		
CAS: 107-98-2	1-methoxy-2-propanol	2.500%
	🚸 Flam. Liq. 3, H226; 🚸 STOT SE 3, H336	
Index number: 603-064-00-3		
Reg.nr.: 01-2119457435-35		
 Additional information: 	For the wording of the listed hazard phrases refer to section 16.	

SECTION 4: First aid measures

· 4.1 Description of first aid measures

· After inhalation:

· After skin contact:

· After eye contact:

Supply fresh air; consult doctor in case of complaints. Generally the product does not irritate the skin. Rinse opened eye for several minutes under running water.



Version number 29 (replaces version 28)

Revision: 12.06.2023

Trade name: PU schuim component A

 After swallowing: • 4.2 Most important symptoms 	If symptoms persist consult doctor.	(Contd. of page 1)
and effects, both acute and delayed · 4.3 Indication of any immediate	No further relevant information available.	
medical attention and special treatment needed	No further relevant information available.	
SECTION 5: Firefighting measur	es	
· 5 1 Extinguishing media		

5.1 Extinguishing media

· Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.

 5.2 Special hazards arising from the substance or mixture No further relevant information available.

- 5.3 Advice for firefighters
- · Protective equipment:

No special measures required.

SECTION 6: Accidental release measures

 6.1 Personal precautions, protective equipment and 	
emergency procedures	Not required.
6.2 Environmental precautions:	No special measures required.
• 6.3 Methods and material for	
containment and cleaning up:	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
 6.4 Reference to other sections 	No dangerous substances are released.
	See Section 7 for information on safe handling.
	See Section 8 for information on personal protection equipment.
	See Section 13 for disposal information.

SECTION 7: Handling and storage · 7.1 Precautions for safe handling No special precautions are necessary if used correctly. · Information about fire - and explosion protection: No special measures required. · 7.2 Conditions for safe storage, including any incompatibilities · Storage: · Requirements to be met by storerooms and receptacles: Store material in original, tightly closed containers in a cool, well-ventilated area in accordance with applicable (local) regulations. Depending on total volume stored, the storage area should comply with PGS15. · Information about storage in one common storage facility: Not required. · Further information about storage conditions: None. · Recommended storage temperature: 5 - 30 🗆 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· Ingredient	ts with limit values that require monitoring at the workplace:
	1-methoxy-2-propanol
	hort-term value: 568 mg/m³, 150 ppm
	ong-term value: 375 mg/m³, 100 ppm
SI	kin
· DNEL (De	erived No Effect Level) for workers
107-98-2 1-methoxy-2-propanol	
Dermal	Long-term - systemic effects, worker 50.6 mg/kg bw/day (Worker)



*

Revision: 12.06.2023

Trade name: PU schuim component A

		(Contd. of page 2)
Inhalative Acute - local effects, we		3.5 mg/m³ (Worker)
Long-term - local effect	s, worker 36	9 mg/m³ (Worker)
· DNEL (Derived No Effect Level) for	or the general pop	pulation
107-98-2 1-methoxy-2-propanol		
Oral Long-term - systemic e	ffects, general po	pulation 3.3 mg/kg bw/day (General population)
Dermal Acute - systemic effects	s, general popula	tion 18.1 mg/kg bw/day (General population)
Inhalative Long-term - systemic e	ffects, general po	pulation 43.9 mg/m ³ (General population)
• PNEC (Predicted No Effect Conce	ntration) values	
107-98-2 1-methoxy-2-propanol		
Aquatic compartment - freshwater		10 mg/l (Freshwater)
Aquatic compartment - marine wa	ter	1 mg/l (Marine water)
Aquatic compartment - water, inte	rmittent releases	100 mg/l (Intermittent release water)
Aquatic compartment - sediment i	n freshwater	52.3 mg/kg sed dw (Sediment freshwater)
Aquatic compartment - sediment i	n marine water	5.2 mg/kg sed dw (Sediment marine water)
Terrestrial compartment - soil		4.59 mg/kg dw (Soil)
Sewage treatment plant		100 mg/l (stp)
· Additional information:	The lists valid of	during the making were used as basis.
· 8.2 Exposure controls		
· Appropriate engineering controls		; see section 7.
 Individual protection measures, su 	ich as personal p	rotective equipment
· General protective and hygienic		for here the send of the send of mode
measures: · Respiratory protection:	Not required.	efore breaks and at the end of work.
· Hand protection		erial has to be impermeable and resistant to the product/ the substance/
·	the preparation	L
	Due to missing	tests no recommendation to the glove material can be given for the
		eparation/ the chemical mixture.
	diffusion and th	e glove material on consideration of the penetration times, rates of the degradation
· Material of gloves	Nitrile rubber, N	
Ũ	The selection of	of the suitable gloves does not only depend on the material, but also on
		f quality and varies from manufacturer to manufacturer. As the product is
		f several substances, the resistance of the glove material can not be dvance and has therefore to be checked prior to the application.
		I thickness of the material: ≥ 0.3 mm
· Penetration time of glove material	The exact brea	k trough time has to be found out by the manufacturer of the protective
		to be observed.
		of chemicals mentioned below the penetration time has to be at least
· For the permanent contact gloves	400 minutes (P	ermeation according to EN 16523-1:2015: Level 6).
made of the following materials ar	e	
suitable:	Butyl rubber, B	R
	Fluorocarbon r	ubber (Viton)
· As protection from splashes glove	Nitrile rubber, N	NDK
made of the following materials ar		
suitable:	Nitrile rubber, N	IBR
· Not suitable are gloves made of		
the following materials:	Leather gloves	
· Eye/face protection	Strong materia	i gioves imended during refilling
	2099.00 100011	
* SECTION 9: Physical and chem	ical properties	
9.1 Information on basic physic	al and chemical	properties
· General Information		
· Physical state		Fluid
· Colour: · Odour:		Light yellow Characteristic
· Odour: · Odour threshold:		Characteristic Not determined.
		(Contd. on page 4)



Version number 29 (replaces version 28)

Revision: 12.06.2023

Trade name: PU schuim component A

		(Contd. of page 3)
· Melting point/freezing point:	Undetermined.	
· Boiling point or initial boiling point and boiling range	Undetermined.	
· Flammability	Not applicable.	
· Lower and upper explosion limit		
· Lower:	Not determined.	
· Upper:	Not determined.	
· Flash point:	> 100 °C (Pensky Martens, ASTM D93)	
· Auto-ignition temperature:	> 500 °C	
 Decomposition temperature: 	Not determined.	
· pH at 20 °C	7	
· Viscosity:		
· Kinematic viscosity	Not determined.	
· Dynamic at 20 °C:	600 mPas (Brookfield, ASTM D1544)	
· Solubility		
· water:	Not miscible or difficult to mix.	
Partition coefficient n-octanol/water (log value)	Not determined.	
· Vapour pressure at 20 °C:	0.1 hPa	
Density and/or relative density		
Density at 20 °C:	1.09 g/cm³ (DIN 51757, ASTM D 1298)	
· Relative density	Not determined.	
· Vapour density	Not determined.	
• 9.2 Other information		
· Appearance:		
· Form:	Fluid	
 Important information on protection of health and 		
environment, and on safety.		
· Ignition temperature:	Product is not selfigniting.	
· Explosive properties:	Product does not present an explosion hazard.	
· Solvent content:		
· Organic solvents:	2.5 %	
· VOC:		
· VOC (2004/42/EC):	2.50 %	
· Solids content:	96.0 %	
· Change in condition		
· Evaporation rate	Not determined.	
 Information with regard to physical hazard classes 		
· Explosives	Void	
· Flammable gases	Void	
· Aerosols	Void	
· Oxidising gases	Void	
· Gases under pressure	Void	
· Flammable liquids	Void	
· Flammable solids	Void	
Self-reactive substances and mixtures	Void	
· Pyrophoric liquids	Void	
· Pyrophoric solids	Void	
Self-heating substances and mixtures	Void	
Substances and mixtures, which emit flammable gases in content with water		
contact with water	Void	
· Oxidising liquids	Void	
· Oxidising solids	Void	
· Organic peroxides	Void	
Corrosive to metals Desensitised explosives	Void Void	

SECTION 10: Stability and reactivity

· 10.1 Reactivity

No further relevant information available.

10.2 Chemical stability

· Thermal decomposition /

conditions to be avoided:

· 10.3 Possibility of hazardous reactions

· 10.4 Conditions to avoid

No decomposition if used according to specifications.

No dangerous reactions known.

No further relevant information available.

DE ÚSSEL

Printing date 18.07.2023

Safety data sheet according to 1907/2006/EC, Article 31

Version number 29 (replaces version 28)

Revision: 12.06.2023

Trade name: PU schuim component A

 10.5 Incompatible materials: 10.6 Hazardous decomposition products: 	No further relevant information available. No dangerous decomposition products known.	(Contd. of page 4)
SECTION 11: Toxicological info	rmation	
 • 11.1 Information on hazard clast • Acute toxicity • LD/LC50 values relevant for class 	ses as defined in Regulation (EC) No 1272/2008 Based on available data, the classification criteria are not met. ification:	
· Components Type	Value Species	

13674-84-5 tris(2-chlorisopropyl)-phosphate			
Oral	LD50	3,600 mg/kg (Rat)	
107-98-2	2 1-me	thoxy-2-propanol	
Oral	LD50	5,660 mg/kg (Rat)	
Dermal	LD50	13,000 mg/kg (Rab	bit)
· Skin corr	rosion/	<i>irritation</i>	Based on available data, the classification criteria are not met.
· Serious e	eye da	mage/irritation	Based on available data, the classification criteria are not met.
 Respirate 	ory or	skin sensitisation	Based on available data, the classification criteria are not met.
· Germ ce	Germ cell mutagenicity Based on available data, the classification criteria are not met.		Based on available data, the classification criteria are not met.
	· Carcinogenicity Based on available data, the classification criteria are not met.		Based on available data, the classification criteria are not met.
Reproductive toxicity Based on available data, the classification criteria are not met.		Based on available data, the classification criteria are not met.	
STOT-single exposure Based on available data, the classification criteria are not met.		Based on available data, the classification criteria are not met.	
· STOT-re	peated	d exposure	Based on available data, the classification criteria are not met.
 Aspiratio 			Based on available data, the classification criteria are not met.
11.2 Information on other hazards			
·Endocrin	ne disru	upting properties	
None of	the ing	predients is listed.	

SECTION 12: Ecological information

• 12.1 Toxicity • Aquatic toxicity:

No further relevant information available.

· Type of test Effective concentration Method Assessment			
107-98-2 1-methoxy-2-propanol			
Inhalative LC50/4 h 25.8 mg/l (Ra	t)		
12.2 Persistence and			
degradability	No further relevant information available.		
 12.3 Bioaccumulative potential 	No further relevant information available.		
 12.4 Mobility in soil 	No further relevant information available.		
12.5 Results of PBT and vPvB as	sessment		
· PBT:	Not applicable.		
· vPvB:	Not applicable.		
12.6 Endocrine disrupting			
properties	The product does not contain substances with endocrine disrupting properties.		
12.7 Other adverse effects			
 Additional ecological information: 			
· General notes:	Not hazardous for water.		

SECTION 13: Disposal considerations

• 13.1 Waste treatment methods • Recommendation		Must not be disposed together with household garbage. Do not allow product to re sewage system.	ach
· European waste catalogue			
08 00 00	0 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS		
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances		

(Contd. on page 6)



Safety data sheet according to 1907/2006/EC, Article 31

Version number 29 (replaces version 28)

Revision: 12.06.2023

(Contd. of page 5)

Trade name: PU schuim component A

- · Uncleaned packaging:
- · Recommendation:

Disposal must be made according to official regulations.

SECTION 14: Transport information		
· 14.1 UN number or ID number · ADR/RID/ADN, ADN, IMDG, IATA	Void	
 • 14.2 UN proper shipping name • ADR/RID/ADN, ADN, IMDG, IATA 	Void	
· 14.3 Transport hazard class(es)		
· ADR/RID/ADN, ADN, IMDG, IATA · Class	Void	
· 14.4 Packing group · ADR/RID/ADN, ADN, IMDG, IATA	Void	
• 14.5 Environmental hazards: • Marine pollutant:	No	
· 14.6 Special precautions for user	Not applicable.	
· 14.7 Maritime transport in bulk according to IMO		
instruments	Not applicable.	
· UN "Model Regulation":	Void	

SECTION 15: Regulatory information

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

· Directive 2012/18/EU

Named dangerous substances -

ANNEX I None of the ingredients is listed.

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment
 – Annex II

None of the ingredients is listed.

· REGULATION (EU) 2019/1148

• Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3)) None of the ingredients is listed.

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

· Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

· National regulations:

· Technical instructions (air):

Class	Share in %
NK	2.5

 15.2 Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases

- H226 Flammable liquid and vapour.
- H302 Harmful if swallowed.
- H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.



Safety data sheet according to 1907/2006/EC, Article 31

Version number 29 (replaces version 28)

Revision: 12.06.2023

Trade name: PU schuim component A

. Classification according to	(Contd. of page 6)
 Classification according to Regulation (EC) No 1272/2008 	The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.
 Department issuing SDS: Contact: Date of previous version: Version number of previous 	Research and Development Saïda El Asjadi, tel: +31 182 372177, e-mail: safety@de-ijssel-coatings.nl 23.03.2021
version: · Abbreviations and acronyms:	28 RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organisation ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) VOC: Volatile Organic Compounds (USA, EU) DNEL: Derived No-Effect Level (REACH) PNEC: Predicted No-Effect Concentration (REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent DST: Persistent, Bioaccumulative Flam. Liq. 3: Flammable liquids – Category 3 Acute Tox. 4: Acute toxicity – Category 4 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3
 Sources: * Data compared to the previous version altered. 	Literature data and/or investigation reports are available through the manufacturer.



Revision: 12.06.2023

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

· 1.1 Product identifier	
· Trade name:	PU schuim component B
 Article number: Registration number UFI: 1.2 Relevant identified uses of t Sector of Use 	851 01-2119457014-47 KJS0-A0TR-W006-V2JT he substance or mixture and uses advised against SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
	SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen) SU19 Building and construction work
 Process category Environmental release category 	PROC19 Manual activities involving hand contact ERC5 Use at industrial site leading to inclusion into/onto article ERC8c Widespread use leading to inclusion into/onto article (indoor) ERC8f Widespread use leading to inclusion into/onto article (outdoor)
 Article category Application of the substance / the mixture 	AC13 Plastic articles See our technical datasheet for application details of this product. Isocyanate hardener for polyurethanes Polyurethane casting foam
 1.3 Details of the supplier of the Manufacturer/Supplier: 	safety data sheet De IJssel Coatings BV, Centrumbaan 960, NL 2841 MH Moordrecht Tel: +31 182 372177, E-mail: info@de-ijssel-coatings.nl
 Further information obtainable from: 1.4 Emergency telephone 	Research and Development.
number:	De IJssel Coatings BV, Tel. +31 182 372177, E-mail: safety@de-ijssel-coatings.nl Office hours: working days from 08:00 to 17:00 hrs.
SECTION 2: Hazards identificati	on

· 2.1 Classification of the substance or mixture

- · Classification according to Regulation (EC) No 1272/2008
- GHS08 health hazard

Resp. Ser	ns. 1 F	1334 May	cause allergy	or asthma	symptoms or	⁻ breathing difficu	lties if inhaled.
-----------	---------	----------	---------------	-----------	-------------	--------------------------------	-------------------

- Carc. 2 H351 Suspected of causing cancer.
- STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

GHS07

- Acute Tox. 4H332 Harmful if inhaled.Skin Irrit. 2H315 Causes skin irritation.Eye Irrit. 2H319 Causes serious eye irritation.Skin Sens. 1H317 May cause an allergic skin reaction.
- STOT SE 3 H335 May cause respiratory irritation.

· 2.2 Label elements

- Labelling according to Regulation (EC) No 1272/2008
 Hazard pictograms
 Signal word
 Hazard-determining components of labelling:
 diphenylmethane-4,4'-diisocyanate
 - 4,4'-methylenediphenyl diisocyanate
- · Hazard statements H332 Harmful if inhaled.
 - H315 Causes skin irritation.
 - H319 Causes serious eye irritation.
 - H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 - H317 May cause an allergic skin reaction.
 - H351 Suspected of causing cancer.
 - H335 May cause respiratory irritation.

H373 May cause damage to organs through prolonged or repeated exposure.



Revision: 12.06.2023

Trade name: PU schuim component B

		(Contd. of page 1)
 Precautionary statements 	P260	Do not breathe dust/fume/gas/mist/vapours/spray.
	P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
	P284	[In case of inadequate ventilation] wear respiratory protection.
	P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
	P305+P351+P33	8 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER/ doctor.
	P405	Store locked up.
	P501	Dispose of contents/container in accordance with local/regional/ national/international regulations.
 Additional information: 	EUH204 Contain	s isocyanates. May produce an allergic reaction.
		st 2023 adequate training is required before industrial or professional
	use.	
 • 2.3 Other hazards • Results of PBT and vPvB assessr 	nent	
· PBT:	Not applicable.	
· vPvB:	Not applicable.	

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· Description:	Mixture of substances listed below with nonhazardous additions.			
· Dangerous components:				
CAS: 9016-87-9	diphenylmethane-4,4'-diisocyanate			
Reg.nr.: 01-2119457014-47				
	Specific concentration limits: Eye Irrit. 2; H319: $C \ge 5$ % Skin Irrit. 2; H315: $C \ge 5$ % Resp. Sens. 1; H334: $C \ge 0.1$ % STOT SE 3; $C \ge 5$ %			
CAS: 101-68-8 EINECS: 202-966-0 Index number: 615-005-00-9 Reg.nr.: 01-2119457014-47	4,4'-methylenediphenyl diisocyanate	25 – 50%		
· Additional information:	For the wording of the listed hazard phrases refer to section 16.			

SECTION 4: First aid measures

· 4.1 Description of first aid measures · General information: Immediately remove any clothing soiled by the product. Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident. · After inhalation: Supply fresh air and to be sure call for a doctor. In case of unconsciousness place patient stably in side position for transportation. · After skin contact: Immediately wash with water and soap and rinse thoroughly. · After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. · After swallowing: If symptoms persist consult doctor. · 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available. 4.3 Indication of any immediate medical attention and special No further relevant information available. treatment needed

(Contd. on page 3)

С ΟΑΤ IN G

Printing date 18.07.2023

*

Safety data sheet according to 1907/2006/EC, Article 31

Version number 31 (replaces version 30)

Revision: 12.06.2023

Trade name: PU schuim component B

(Contd. of page 2)

SECTION 5: Firefighting measur	es
 5.1 Extinguishing media Suitable extinguishing agents: 5.2 Special hazards arising from 	Use fire extinguishing methods suitable to surrounding conditions.
the substance or mixture 5.3 Advice for firefighters	During heating or in case of fire poisonous gases are produced.
Protective equipment:	Mouth respiratory protective device.
SECTION 6: Accidental release r	neasures
6.1 Personal precautions, protective equipment and	
emergency procedures	Mount respiratory protective device.
6.2 Environmental precautions: 6.3 Methods and material for	Do not allow to enter sewers/ surface or ground water.
containment and cleaning up:	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
	Dispose contaminated material as waste according to section 13. Ensure adequate ventilation.
6.4 Reference to other sections	See Section 7 for information on safe handling.
	See Section 8 for information on personal protection equipment. See Section 13 for disposal information.
SECTION 7: Handling and storage	ge
7.1 Precautions for safe	
handling	Ensure good ventilation/exhaustion at the workplace.
	Open and handle receptacle with care. Prevent formation of aerosols.
Information about fire - and	
explosion protection:	Keep respiratory protective device available.
7.2 Conditions for safe storage, Storage:	including any incompatibilities
Requirements to be met by	Stars material is ariginal, tightly alread containers in a seal, well ventilated area in
storerooms and receptacles:	Store material in original, tightly closed containers in a cool, well-ventilated area in accordance with applicable (local) regulations. Depending on total volume stored, the storage area should comply with PGS15.
Information about storage in one	
common storage facility: Further information about storage	Not required.
conditions: · Recommended storage	Keep container tightly sealed.
temperature:	5 - 30 🗆
7 0 0 0 0 0 0	N a famile an and a court information and it also

SECTION 8: Exposure controls/personal protection

7.3 Specific end use(s)

• 8.1 Control parameters • Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. ٦

· DNEL (De	· DNEL (Derived No Effect Level) for workers				
9016-87-9	diphenylmethane-4,4'-diisocyanate				
Dermal	Acute - systemic effects, worker 50 mg/kg bw/day (Worker)				
	Acute - local effects,worker	28,700 μg/cm² (Worker)			
Inhalative	Acute - systemic effects, worker	0.1 mg/m³ (Worker)			
	Acute - local effects, worker	0.1 mg/m³ (Worker)			
	Long-term - systemic effects, worker	0.05 mg/m³ (Worker)			
		(Contd on page 4)			

No further relevant information available.



Safety data sheet according to 1907/2006/EC, Article 31

Version number 31 (replaces version 30)

Revision: 12.06.2023

Trade name: PU schuim component B

				(Contd. of page 3)	
	4,4'-methylenediphenyl	-			
Dermal	Acute - systemic effects			w/day (Worker)	
	Acute - local effects,wor		28.7 µg/cm	. ,	
	Long-term - systemic effects, worker		•••		
Inhalative	Acute - systemic effects, worker		0.1 mg/m ³ (. ,	
	Acute - local effects, worker		-	0.1 mg/m ³ (Worker)	
	Long-term - systemic effects, worker		-		
	Long-term - local effects		0.05 mg/m ³	(Worker)	
•	rived No Effect Level) for				
	diphenylmethane-4,4'-	•		00 m m/len huu/len (0 m m len m ule tien)	
Oral	Acute - systemic effects	÷ .	-	20 mg/kg bw/day (General population)	
Dermal	Acute - systemic effects	÷ .	-	25 mg/kg bw/day (General population)	
	Acute - local effects, ge			17,200 μg/cm² (General population)	
Inhalative	Acute - systemic effects	÷ .	-	0.05 mg/m ³ (General population)	
	Acute - local effects, ge			0.05 mg/m³ (General population)	
		-		0.0258 mg/m³ (General population)	
	Long-term - local effects			0.025 mg/m³ (General population)	
	edicted No Effect Concer	,			
	diphenylmethane-4,4'-	diisocyanat			
-	ompartment - freshwater		1 mg/l (Fresl	,	
-	ompartment - marine wat		0.1 mg/l (Ma	,	
•	•	freshwater	•••	dw (Sediment freshwater)	
-	eatment plant		1 mg/l (stp)		
	4,4'-methylenediphenyl	diisocyana			
	ompartment - freshwater		1 mg/l (Fresl	,	
	ompartment - marine wat	er	0.1 mg/l (Ma	,	
	compartment - soil		1 mg/kg dw	(501)	
-	eatment plant information:	The liste ve	1 mg/l (stp)	e making were used as basis.	
				i liaking were used as basis.	
	sure controls te engineering controls	No further	data; see sec	tion 7	
	protection measures, su				
	rotective and hygienic			- 4	
measures:	:	Keep away from foodstuffs, beverages and feed.			
				soiled and contaminated clothing aks and at the end of work.	
			ctive clothing		
		Avoid conta	act with the e	yes and skin.	
 Respirator 	ry protection:	In case of I	orief exposure	e or low pollution use respiratory filter device. In case of	
. Hand prot				sure use self-contained respiratory protective device.	
· nanu prote	· Hand protection			to be impermeable and resistant to the product/ the substance/	
		the prepara		,,, _,, _	
				recommendation to the glove material can be given for the	
				/ the chemical mixture.	
			nd the glove m nd the degrac	aterial on consideration of the penetration times, rates of lation	
· Material of	fgloves	Butyl rubbe			
	-	Fluorocarb	on rubber (Vi	ton)	
		Nitrile rubber, NBR			
				able gloves does not only depend on the material, but also on	
		further mar	ks of quality	and varies from manufacturer to manufacturer. As the product is	
		further mar a preparati calculated	ks of quality on of several in advance a	and varies from manufacturer to manufacturer. As the product is substances, the resistance of the glove material can not be nd has therefore to be checked prior to the application.	
Dan 1 ii		further man a preparati calculated Recommen	ks of quality on of several in advance a nded thicknes	and varies from manufacturer to manufacturer. As the product is substances, the resistance of the glove material can not be nd has therefore to be checked prior to the application. as of the material: ≥ 0.3 mm	
· Penetratio	n time of glove material	further man a preparati calculated Recommen The exact I	ks of quality on of several in advance a nded thicknes	and varies from manufacturer to manufacturer. As the product is substances, the resistance of the glove material can not be nd has therefore to be checked prior to the application. If the material: ≥ 0.3 mm time has to be found out by the manufacturer of the protective	



*

Version number 31 (replaces version 30)

Revision: 12.06.2023

Trade name: PU schuim component B

•		
		(Contd. of page chemicals mentioned below the penetration time has to be at least leation according to EN 16523-1:2015: Level 6).
· For the permanent contact gloves		,
made of the following materials are		
suitable:	Butyl rubber, BR	
	Fluorocarbon rubb Nitrile rubber, NBR	er (Viton)
· As protection from splashes gloves		
made of the following materials are		
suitable:	Nitrile rubber, NBR	
• Not suitable are gloves made of		
the following materials:	Leather gloves	
· Eye/face protection	Strong material glo Tightly sealed gog	
		y,
SECTION 9: Physical and chemic	cal properties	
 9.1 Information on basic physica General Information 	l and chemical pro	perties
· Physical state		Fluid
· Colour:		Dark yellow
· Odour:		Characteristic Not determined
 Odour threshold: Melting point/freezing point: 		Not determined. 39.5 °C
Boiling point or initial boiling point a	and boiling range	208 °C
· Flammability	and boiling fullige	Not applicable.
· Lower and upper explosion limit		
· Lower:		0.4 Vol %
· Upper:		0.0 Vol %
· Flash point:		212 °C (Pensky Martens, ASTM D93)
 Auto-ignition temperature: Decomposition temperature: 		520 °C Not determined.
· pH at 20 °C		7
· Viscosity:		
· Kinematic viscosity		Not determined.
· Dynamic at 20 °C:		300 mPas (Brookfield, ASTM D1544)
Solubility		
· water:		Not miscible or difficult to mix.
 Partition coefficient n-octanol/water Vapour pressure: 	(log value)	Not determined. Not determined.
· Density and/or relative density		Not determined.
· Density at 20 °C:		1.32 g/cm³ (DIN 51757, ASTM D 1298)
· Relative density		Not determined.
· Vapour density		Not determined.
• 9.2 Other information		
· Appearance: · Form:		Fluid
 Important information on protection 	of health and	
environment, and on safety.		
· Ignition temperature:		Product is not selfigniting.
· Explosive properties:		Product does not present an explosion hazard.
· VOC:		0.00.0/
· VOC (2004/42/EC): · Solids content:		0.00 % 100.0 %
· Solids content: · Change in condition		100.0 /0
· Evaporation rate		Not determined.
· Information with regard to physical	hazard classes	
· Explosives		Void
		Void
· Flammable gases		Void
Aerosols		Void
· Aerosols · Oxidising gases		Void
Aerosols		



Safety data sheet according to 1907/2006/EC, Article 31

Version number 31 (replaces version 30)

Revision: 12.06.2023

Trade name: PU schuim component B

		(Contd. of page 5)
· Self-reactive substances and mixtures	Void	
· Pyrophoric liquids	Void	
· Pyrophoric solids	Void	
· Self-heating substances and mixtures	Void	
· Substances and mixtures, which emit flammable	e gases in	
contact with water	Void	
· Oxidising liquids	Void	
· Oxidising solids	Void	
· Organic peroxides	Void	
· Corrosive to metals	Void	
· Desensitised explosives	Void	

SECTION 10: Stability and reactivit	v
-------------------------------------	---

 • 10.1 Reactivity • 10.2 Chemical stability • Thermal decomposition / 	No further relevant information available.
conditions to be avoided:	No decomposition if used according to specifications.
 10.3 Possibility of hazardous 	
reactions	No dangerous reactions known.
 10.4 Conditions to avoid 	No further relevant information available.
 10.5 Incompatible materials: 	No further relevant information available.
 10.6 Hazardous decomposition 	
products:	No dangerous decomposition products known.

SECTION 11: Toxicological information

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

Harmful if inhaled. t for classification: · Acute toxicity

 LD/LC50 values relevant for classificatio

· Components	Туре	Value	Species		
9016-87-9 dipheny	9016-87-9 diphenylmethane-4,4'-diisocyanate				
Oral LD50 10,0	00 mg/kg (Rat)				
Dermal LD50 9,40	0 mg/kg (Rabbit)				
101-68-8 4,4'-meth	101-68-8 4,4'-methylenediphenyl diisocyanate				
Oral LD50 2,20	0 mg/kg (Mouse)				
 Skin corrosion/irrita Serious eye damag Respiratory or skin Germ cell mutageni Carcinogenicity 	e/irritation C sensitisation M city E	Aay cause alle Aay cause an Based on avai Buspected of e	is eye irritation. ergy or asthma symptoms or breathing difficulties if inhaled. allergic skin reaction. ilable data, the classification criteria are not met. causing cancer.		
Reproductive toxicityBased on available data, the classification criteria are not met.STOT-single exposureMay cause respiratory irritation.STOT-repeated exposureMay cause damage to organs through prolonged or repeated exposure.Aspiration hazardBased on available data, the classification criteria are not met.11.2 Information on other hazardsStore and a store are not met.			spiratory irritation. mage to organs through prolonged or repeated exposure.		
· Endocrine disrupting	g properties				

None of the ingredients is listed.

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:	No further re	elevant information available.
· Type of test Effective	concentration Method	Assessment
ATE (Acute Toxicity E	stimates)	
Inhalative LC50/4 h 0	.61 mg/l	
9016-87-9 diphenylme	ethane-4,4'-diisocyanate	
Inhalative LC50/4 h 0	.49 mg/l (Rat)	
12.2 Persistence and		

degradability

No further relevant information available.



Version number 31 (replaces version 30)

Revision: 12.06.2023

Trade name: PU schuim component B

	(Contd. of page 6)
 12.3 Bioaccumulative potential 	No further relevant information available.
 12.4 Mobility in soil 	No further relevant information available.
12.5 Results of PBT and vPvB as	ssessment
· PBT:	Not applicable.
· vPvB:	Not applicable.
 12.6 Endocrine disrupting 	
properties	The product does not contain substances with endocrine disrupting properties.
 12.7 Other adverse effects 	
· Additional ecological information:	
· General notes:	Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
	Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation Must not be disposed together with household garbage. Do not allow product to reach sewage system.

·European	· European waste catalogue				
08 00 00	00 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS				
08 01 00	wastes from MFSU and removal of paint and varnish				
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances				
HP4	Irritant - skin irritation and eye damage				
HP5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity				
HP7	Carcinogenic				
HP13	Sensitising				

Uncleaned packaging:
 Recommendation:

Disposal must be made according to official regulations.

SECTION 14: Transport information	
· 14.1 UN number or ID number · ADR/RID/ADN, IMDG, IATA	UN2810
 • 14.2 UN proper shipping name • ADR/RID/ADN • IMDG, IATA 	2810 TOXIC LIQUID, ORGANIC, N.O.S. (diphenylmethane-4,4'- diisocyanate, 4,4'-methylenediphenyl diisocyanate) TOXIC LIQUID, ORGANIC, N.O.S. (diphenylmethane-4,4'- diisocyanate, 4,4'-methylenediphenyl diisocyanate)
· 14.3 Transport hazard class(es)	
· ADR/RID/ADN · Class · Label	6.1 (T1) Toxic substances. 6.1
· IMDG, IATA · Class · Label	6.1 Toxic substances. 6.1
· 14.4 Packing group · ADR/RID/ADN, IMDG, IATA	11
· 14.5 Environmental hazards: · Marine pollutant:	No
 • 14.6 Special precautions for user • Hazard identification number (Kemler code): • EMS Number: • Stowage Category • Stowage Code 	Warning: Toxic substances. 60 F-A,S-A B SW2 Clear of living quarters.
	(Contd. on page 8)



Safety data sheet according to 1907/2006/EC, Article 31

Version number 31 (replaces version 30)

Revision: 12.06.2023

Trade name: PU schuim component B

	(Contd. of page 7)
· 14.7 Maritime transport in bulk accordin	ig to IMO
instruments	Not applicable.
· Transport/Additional information:	
· ADR/RID/ADN	
 Limited quantities (LQ) 	100 ml
· Excepted quantities (EQ)	Code: E4
	Maximum net quantity per inner packaging: 1 ml
	Maximum net quantity per outer packaging: 500 ml
· Transport category	2
· Tunnel restriction code	D/E
·IMDG	
· Limited quantities (LQ)	100 ml
· Excepted quantities (ÉQ)	Code: E4
	Maximum net quantity per inner packaging: 1 ml
	Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 2810 TOXIC LIQUID, ORGANIC, N.O.S. (DIPHENYLMETHANE-
	4,4'-DIISOCYANATE, 4,4'-METHYLENEDIPHENYL DIISOCYANATE), 6.1, II
	V.1, II

SECTION 15: Regulatory information

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

	 Directive 2012/18/EU Named dangerous substances - ANNEX I REGULATION (EC) No 1907/2006 ANNEX XVII 	Conditio	f the ingredients is listed. ons of restriction: 3, 56a, 74	
	– Annex II	striction o	of the use of certain hazardous substances in electrical and electronic equipment	
	None of the ingredients is listed.			
	· REGULATION (EU) 2019/1148			
	· Annex I - RESTRICTED EXPLOSI	/ES PRE	CURSORS (Upper limit value for the purpose of licensing under Article 5(3))	
	None of the ingredients is listed.			
	· Annex II - REPORTABLE EXPLOS	IVES PR	ECURSORS	
	None of the ingredients is listed.			
	· Regulation (EC) No 273/2004 on di	rug preci	ursors	
	None of the ingredients is listed.			
	• Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors			
	None of the ingredients is listed.			
	· National regulations:			
	· Technical instructions (air):	Class I	Share in % 100.0	
	· 15.2 Chemical safety			
	assessment:	A Chem	nical Safety Assessment has not been carried out.	
_				
	SECTION 16: Other information			
	I his information is based on our pro- features and shall not establish a le		owledge. However, this shall not constitute a guarantee for any specific product lid contractual relationship.	
	· Relevant phrases	H315	Causes skin irritation.	

- May cause an allergic skin reaction. H317
- Causes serious eye irritation. Harmful if inhaled. H319
- H332
- H334 H335 May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation.
- H351 Suspected of causing cancer.



Version number 31 (replaces version 30)

Revision: 12.06.2023

Trade name: PU schuim component B

	(Contd. of page 8) H373 May cause damage to organs through prolonged or repeated exposure. EUH204 Contains isocyanates. May produce an allergic reaction.	
 Classification according to Regulation (EC) No 1272/2008 	The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.	
Acute toxicity - inhalation Skin corrosion/irritation Serious eye damage/irritation Respiratory sensitisation Skin sensitisation Carcinogenicity Specific target organ toxicity (sing Specific target organ toxicity (repe		
 Department issuing SDS: Contact: Date of previous version: Version number of previous version: Abbreviations and acronyms: 		
 Sources: * Data compared to the previous version altered. 	Literature data and/or investigation reports are available through the manufacturer.	