

**Product no.:** 5596408

Current version: 2.0.0, issued: 13.01.2022 Region: 1.1.0, issued: 26.04.2021 Region: GB

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

#### 1.1 Product identifier

Trade name

#### **DESMODUR 44 V 20 L**

Substance name diphenylmethanediisocyanate, isomeres and homologues

Identification numbers

CAS no. 9016-87-9

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

#### Relevant identified uses of the substance or mixture

Di-/polyisocyanate components for the production of polyurethanes

#### Uses advised against

Spray applications by final consumers are not supported.

Final consumer uses requiring heating above room temperature prior use, are not supported.

Professional cleaning applications using aprotic polar solvent are not supported.

#### 1.3 Details of the supplier of the safety data sheet

#### **Address**

PLIXXENT Holding GmbH

Gasstraße 18

22761 Hamburg

Germany

Telephone no. +49 441 68099 190 e-mail productsafety@plixxent.com

#### **Advice on Safety Data Sheet**

sdb info@umco.de

#### 1.4 Emergency telephone number

In case of transport incidents and other emergencies:

+44 (0) 1235 239 670 (NCEC, National Chemical Emergency Centre)

#### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

#### Classification in accordance with Regulation (EC) No 1272/2008 (CLP)

Acute Tox. 4; H332 Carc. 2; H351 Eye Irrit. 2; H319 Resp. Sens. 1; H334 Skin Irrit. 2; H315 Skin Sens. 1; H317 STOT RE 2; H373i STOT SE 3; H335

#### Classification information

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008: Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3 and 4 of Annex I to CLP.

#### 2.2 Label elements

#### Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)

Causes skin irritation.

#### Product identifier

9016-87-9 (diphenylmethanediisocyanate, isomeres and homologues)

### Hazard pictograms



Signal word

Danger

Hazard statement(s)

H315

H317 May cause an allergic skin reaction.



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H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation. H351 Suspected of causing cancer.

H373i May cause damage to organs through prolonged or repeated exposure if inhaled.

Precautionary statement(s)

P280 Wear protective gloves/protective clothing/eye protection/face protection.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

#### Supplemental label elements

'As from 24 August 2023 adequate training is required before industrial or professional use'

#### 2.3 Other hazards

In case of respiratory system hypersensitivity (asthma, chronic bronchitis) do not handle this product.

#### **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances

#### Chemical characterization

Substance name diphenylmethanediisocyanate, isomeres and homologues

#### Identification numbers

CAS no. 9016-87-9

Components to be mentioned according to Regulation (EU) No. 1907/2006, Annex II, section 3.1

Substance name	Additional information	
CAS / EC / Index / REACH no	Concentration	%
diphenylmethane-4,4'-diisocyanate	component	
, ,	•	wt%
101-68-8	>= 25.00 - < 50.00	W170
202-966-0		
615-005-00-9		
01-2119457014-47		
diphenylmethane-2,4'-diisocyanate	component	
5873-54-1	< 5.00	wt%
227-534-9		
615-005-00-9		
01-2119480143-45		
2,2'-methylenediphenyl diisocyanate	component	
2536-05-2	< 2.50	wt%
219-799-4		
615-005-00-9		
01-2119927323-43		

#### Other information

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Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)				
-	Resp. Sens. 1; H334: C >= 0.1%	-	-				
	Eye Irrit. 2; H319: C >= 5%						
	STOT SE 3; H335: C >= 5%						
	Skin Irrit. 2; H315: C >= 5%						

#### 3.2 Mixtures

Not applicable. The product is not a mixture.

#### 3.3 Other information

Any substances in the candidate list (SVHC) in accordance with REACH regulation (EC) 1907/2006 that may be contained in the product are specified in section 15.

#### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

#### **General information**

Remove contaminated clothing immediately and dispose of safely.

#### After inhalation

Remove to fresh air, keep patient warm and at rest. In case of persisting adverse effects consult a physician.

#### After skin contact

Preferably wash with polyethylene glycol-based cleanser or with plenty of warm water and soap. Consult a doctor if skin irritation persists.

#### After eye contact



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Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). Seek medical assistance.

#### After ingestion

Rinse the mouth thoroughly with water. Do not induce vomiting. Call a doctor immediately.

#### 4.2 Most important symptoms and effects, both acute and delayed

#### **Effects**

The product irritates the respiratory tract and may trigger sensitisation of the skin and respiratory tract. Treatment of acute irritation or bronchial constriction is primarily symptomatic. Extended medical treatment may be required depending on the degree of exposure and the severity of the symptoms.

#### 4.3 Indication of any immediate medical attention and special treatment needed

No data available.

### **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

#### Suitable extinguishing media

Carbon dioxide; Foam; Extinguishing powder; Fight larger fires with directed water spray.

#### Unsuitable extinguishing media

High power water jet

#### 5.2 Special hazards arising from the substance or mixture

In the event of fire, the following can be released: Carbon dioxide (CO2); Carbon monoxide (CO); Nitrogen oxides (NOx); Hydrogen cyanide (HCN); In case of fire: danger of pressure build up, which could result in container rupture. Containers at risk from fire should be cooled with water and, if possible, removed from the danger area.

#### 5.3 Advice for firefighters

Use self-contained breathing apparatus. Wear protective clothing. Do not allow run-off from fire fighting to enter drains or water courses.

### **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel

Refer to protective measures listed in sections 7 and 8.

#### For emergency responders

Personal protective equipment (PPE) - see section 8.

#### 6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

#### 6.3 Methods and material for containment and cleaning up

Cover up with damp, liquid absorbing material (e. g. sawdust, chemical binding material based on calcium silicate hydrate, sand). After 1 hour collect in stainless containers for waste material disposal. Do not seal containers (generation of CO2)! Keep damp and let stand in a secured outdoor location for several days. Dispose according to section 13. Contaminated areas may be cleaned with recommended decontamination agents: -8-10% sodium carbonate and 2% aqueous liquid soap; - Liquid/yellow soap (potassium soap with ~ 15% anionic surfactants): 20ml; Water: 700ml; Polyethylene glycol (PEG 400): 350ml; - 30% commercial laundry detergent (containing monoethanolamine), 70% water

#### 6.4 Reference to other sections

Information regarding safe handling, see section 7. Information regarding personal protective measures, see section 8. Information regarding waste disposal, see section 13.

#### **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

#### Advice on safe handling

Risks inherent to handling the product must be minimised by applying the appropriate protective and preventive measures. Working processes should - so far as possible, according to the state of the art - be designed to rule out bodily contact or the release of hazardous substances. Provide good ventilation at the work area (local exhaust ventilation, if necessary).

#### General protective and hygiene measures

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Do not inhale vapours. Avoid contact with eyes and skin. Wash hands before breaks and after work. Store work clothing separately. Remove soiled or soaked clothing immediately.

#### 7.2 Conditions for safe storage, including any incompatibilities

#### Technical measures and storage conditions

Keep container tightly closed and dry in a cool, well-ventilated place.

#### Incompatible products

Substances to be avoided, see section 10.



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### 7.3 Specific end use(s)

No data available.

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

### Occupational exposure limit values

No	Substance name	CAS no.		EC no.
1	diphenylmethanediisocyanate, isomeres and homologues	9016-87-9		
	List of approved workplace exposure limits (WELs) / EH40			
	Isocyanates, all (as -NCO) Exept methyl isocyanate			
	WEL short-term (15 min reference period)	0.07	mg/m³	
	WEL long-term (8-hr TWA reference period)	0.02	mg/m³	
	Comments	Sen		
2	diphenylmethane-4,4'-diisocyanate	101-68-8		202-966-0
	List of approved workplace exposure limits (WELs) / EH40			
	Isocyanates, all (as -NCO) Exept methyl isocyanate			
	WEL short-term (15 min reference period)	0.07	mg/m³	
	WEL long-term (8-hr TWA reference period)	0.02	mg/m³	
	Comments	Sen		
3	phenyl-isocyanate	103-71-9		203-137-6
	List of approved workplace exposure limits (WELs) / EH40			
	Isocyanates, all (as -NCO) Exept methyl isocyanate			
	WEL short-term (15 min reference period)	0.07	mg/m³	
	WEL long-term (8-hr TWA reference period)	0.02	mg/m³	
	Comments	Sen		
4	2,2'-methylenediphenyl diisocyanate	2536-05-2		219-799-4
	List of approved workplace exposure limits (WELs) / EH40			
	Isocyanates, all (as -NCO) Exept methyl isocyanate			
	WEL short-term (15 min reference period)	0.07	mg/m³	
	WEL long-term (8-hr TWA reference period)	0.02	mg/m³	·
	Comments	Sen	·	

### **DNEL, DMEL and PNEC values**

### **DNEL values (worker)**

No	Substance name	CAS / EC n	0		
	Route of exposure	Exposure time	Effect	Value	
1	diphenylmethane-4,4'-diisocy	anate		101-68-8 202-966-0	
	inhalative	Long term (chronic)	local	0.05	mg/m³
	inhalative	Short term (acut)	local	0.1	mg/m³
2	diphenylmethane-2,4'-diisocy	ranate		5873-54-1 227-534-9	
	inhalative	Long term (chronic)	local	0.05	mg/m³
	inhalative	Short term (acut)	local	0.1	mg/m³
3	2,2'-methylenediphenyl diiso	cyanate		2536-05-2 219-799-4	-
	inhalative	Short term (acut)	local	0.1	mg/m³
	inhalative	Long term (chronic)	local	0.05	mg/m³

#### **DNEL value (consumer)**

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	diphenylmethane-4,4'-dii	socyanate		101-68-8	
				202-966-0	
	inhalative	Long term (chronic)	local	0.025	mg/m³
	inhalative	Short term (acut)	local	0.05	mg/m³
2	diphenylmethane-2,4'-diisocyanate		5873-54-1		
				227-534-9	
	inhalative	Long term (chronic)	local	0.025	mg/m³
	inhalative	Short term (acut)	local	0.05	mg/m³
3	2,2'-methylenediphenyl d	liisocyanate		2536-05-2	
			219-799-4		
	inhalative	Short term (acut)	local	0.05	mg/m³
	inhalative	Long term (chronic)	local	0.025	mg/m³

**PNEC** values



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No	Substance name		CAS / EC no	
	ecological compartment	Туре	Value	
1	diphenylmethane-4,4'-diisocyanate		101-68-8	
			202-966-0	
	water	fresh water	1	mg/L
	water	marine water	0.1	mg/L
	soil	-	1	mg/kg dry weight
	sewage treatment plant	-	1	mg/L
2	diphenylmethane-2,4'-diisocyanate		5873-54-1	
			227-534-9	
	water	marine water	0.1	mg/L
	water	Aqua intermittent	10	mg/L
	soil	-	1	mg/kg dry weight
	sewage treatment plant	-	1	mg/L
3	2,2'-methylenediphenyl diisocyanate		2536-05-2	
			219-799-4	
	water	fresh water	1	mg/L
	water	marine water	0.1	mg/L
	sewage treatment plant	-	1	mg/L
	secondary poisoning	-	1	mg/kg dry weight

#### 8.2 Exposure controls

#### Appropriate engineering controls

Ensure adequate ventilation, local exhaust at the work station if necessary.

#### Personal protective equipment

#### Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol, vapour and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified. In case of insufficient ventilation and during spray application respiratory protection necessary. Use fresh air mask; Respiratory protection mask with combination filter A/P2.

#### Eye / face protection

Safety glasses with side protection shield (EN 166)

#### Hand protection

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Check in any case suitability of protective glove for the specific workplace conditions (e.g. mechanical resistance, product compatibility, antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Replace immediately protective gloves if worn or damaged. In case of longer-term contact:

Appropriate Material	Polychloroprene			
Material thickness	>=	0.5	mm	
Breakthrough time	>=	480	min	
Appropriate Material	nitrile rubber			
Material thickness	>=	0.35	mm	
Breakthrough time	>=	480	min	
Appropriate Material	butyl rubber			
Material thickness	>=	0.5	mm	
Breakthrough time	>=	480	min	
Appropriate Material	fluorintated rubber			
Material thickness	>=	0.4	mm	
Breakthrough time	>=	480	min	

#### Other

Chemical-resistant work clothes.

#### **Environmental exposure controls**

No data available.

## **SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

state of aggregation
quid
Form/Colour
quid
rown

dour	
nustv	

pH value	
No data available	



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Boiling point / boiling range	Τ.	000	00		
Value	>	300	°C		
Melting point/freezing point					
No data available					
Decomposition temperature					
No data available					
Pour point Value	<	0	°C		
		U	C		
Flash point					
Value	=	226	°C		
Ignition temperature					
Value	>	500	°C		
Flammability					
No data available					
Lower explosion limit					
No data available	·	<u> </u>			
Upper explosion limit					
No data available					
Vapour pressure					
Value		1	hPa		
Reference temperature		20	°C		
Value		12	hPa		
Reference temperature		50	°C		
Value		17	hPa		
Reference temperature		55	°C		
Relative vapour density					
No data available					
Relative density					
No data available					
Value		1.238	/3		
Reference temperature		1.238	g/cm³ °C		
Reference temperature		20	C		
Solubility					
No data available					
Partition coefficient n-octanol/water (log value)					
No Substance name		CAS no.		EC no.	
1 diphenylmethane-4,4'-diisocyanate		101-68-8		202-966-0	
log Pow			4.51		
Reference temperature			20	°C	
Method	OECD 117				
Source 2.4! diineasyanata	ECHA	E072 F4 4		227 524 6	
2 diphenylmethane-2,4'-diisocyanate		5873-54-1	1 51	227-534-9	
log Pow Reference temperature			4.51 22	°C	
with reference to	pH 7			U	
Method	OECD 117				
Source	ECHA				
Viscosity					
Value	>=	200	mPa*s		
Reference temperature		20	°C		
Туре	dynamic				
Particle characteristics	• •				
No data available					
I NO data avallanie					

## 9.2 Other information

Other information

No data available.

### SECTION 10: Stability and reactivity

### 10.1 Reactivity



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No data available.

#### 10.2 Chemical stability

Release of carbon dioxide (CO2) starting from a polymerisation temperature of approximately 200°C.

#### 10.3 Possibility of hazardous reactions

Exothermic reactions are possible in the event of contact with incompatible substances.

#### 10.4 Conditions to avoid

No data available.

#### 10.5 Incompatible materials

Amines; Alcohols; Formation of CO2 upon contact with water, development of overpressure in closed containers is possible. Bursting hazard; Aprotic polar solvents (see section 11).

#### 10.6 Hazardous decomposition products

None if stored, handled and transported properly.

#### **SECTION 11: Toxicological information**

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

Acut	Acute oral toxicity						
No	Substance name	CAS no.		EC no.			
1	diphenylmethane-4,4'-diisocyanate	101-68-8		202-966-0			
LD50		>	2000	mg/kg bodyweight			
Spec	ies	rat					
Sour	ce	ECHA / Read across					

Acut	Acute dermal toxicity						
No	Substance name	CAS no.		EC no.			
1	diphenylmethane-4,4'-diisocyanate	101-68-8		202-966-0			
LD50		>	9400	mg/kg bodyweight			
Spec	ies	rabbit					
Method		OECD 402					
Sour	ce	ECHA / Read across					

Acute inhalational toxicity						
No	Substance name		CAS no.		EC no.	
1	diphenylmethanediisocyanate, isomeres and he	omologues	9016-87-9		•	
LC50				1.5	mg/l	
State of aggregation		Dust/mist			<del>-</del>	
Sour	ce	supplier				

Skin	Skin corrosion/irritation						
No	Substance name	CAS no.	EC no.				
1	diphenylmethane-4,4'-diisocyanate	101-68-8	202-966-0				
Method		OECD 404					
Source		ECHA / Read across					
Evaluation		irritant					

# Serious eye damage/irritation No data available

# Respiratory or skin sensitisation No data available

Gerr	n cell mutagenicity		
No	Substance name	CAS no.	EC no.
1	diphenylmethane-2,4'-diisocyanate	5873-54-1	227-534-9
Sour	ce	ECHA	
Evaluation/classification		Based on available data, the classificatio	n criteria are not met.

Reproduction toxicity	
No data available	

Carcinogenicity	
No data available	

STOT - single exposure	
No data available	

STOT - repeated exposure	
No data available	

Aspiration hazard	
No data available	



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#### 11.2 Information on other hazards

#### **Endocrine disrupting properties**

No data available.

#### Other information

Industrial cleaning with aprotic polar solvents (meeting the IUPAC definition) may lead to formation of (hazardous) primary aromatic amines (> 0.1%). Primary aromatic amines are chemicals that are regarded as potentially carcinogenic for humans based on animal testing. Some of these chemicals are known human carcinogens.

## **SECTION 12: Ecological information**

#### 12.1 Toxicity

Toxicity to	o fish (acute)
No data av	vailable
Toxicity to	o fish (chronic)
No data av	vailable

### Toxicity to Daphnia (acute)

No data available

### Toxicity to Daphnia (chronic)

No data available

#### Toxicity to algae (acute) No data available

#### Toxicity to algae (chronic)

No data available

#### **Bacteria toxicity** No data available

#### 12.2 Persistence and degradability

No data available.

#### 12.3 Bioaccumulative potential

Bioc	Bioconcentration factor (BCF)						
No	Substance name		CAS no.			EC no.	
1	diphenylmethane-2,4'-diisocyanate		5873-54-1			227-534-9	
BCF		92		-	200		
Method		OECD 305 E					
Source		ECHA					

Parti	Partition coefficient n-octanol/water (log value)						
No	Substance name		CAS no.		EC no.		
1	diphenylmethane-4,4'-diisocyanate		101-68-8		202-966-0		
log P	ow			4.51			
Refe	rence temperature			20	°C		
Meth	Method						
Sour	Source						
2	diphenylmethane-2,4'-diisocyanate		5873-54-1		227-534-9		
log P	Pow			4.51			
Refe	Reference temperature			22	°C		
with reference to		pH 7					
Method		OECD 117					
Sour	ce	ECHA					

#### Mobility in soil

No data available.

#### Results of PBT and vPvB assessment 12.5

No data available.

#### 12.6 Endocrine disrupting properties

No data available.

#### 12.7 Other adverse effects

#### Other adverse effects

Isocyanate reacts with water at the interface forming CO2 and a solid insoluble product with high melting point (polyurea). This reaction is accelerated by surfactants (e.g. detergents) or by watersoluble solvents. Previous experience shows that polyurea is inert and nondegradable



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#### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

#### Product

Disposal of the product should be carried out in accordance with all applicable regulations following consultation with the responsible local authority and the disposal company in an authorised and suitable disposal facility.

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

#### **Packaging**

Residues must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

### **SECTION 14: Transport information**

#### 14.1 Transport ADR/RID/ADN

The product is not subject to ADR/RID/ADN regulations.

#### 14.2 Transport IMDG

The product is not subject to IMDG regulations.

#### 14.3 Transport ICAO-TI / IATA

The product is not subject to ICAO-TI / IATA regulations.

#### 14.4 Other information

No data available.

#### 14.5 Environmental hazards

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

#### 14.6 Special precautions for user

No data available.

#### 14.7 Maritime transport in bulk according to IMO instruments

Not relevant

#### **SECTION 15: Regulatory information**

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

#### Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)

In accordance with the REACH regulation (EC) 1907/2006, the product does not contain any substances that are considered as subject to listing in annex XIV, inventory of substances requiring authorisation.

#### REACH candidate list of substances of very high concern (SVHC) for authorisation

In accordance with article 57 and article 59 of the Reach regulation (EC) 1907/2006, this substance is not considered as subject to listing in annex XIV, inventory of substances requiring authorisation ("Authorization list").

Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES				
The product is considered being subject to REACH regulation (EC) 1907/2006 annex XVII. No 3				
The substance is considered being subject to REACH regulation (EC) 1907/2006 annex XVII.				
No	Substance name	CAS no.	EC no.	No
1	2,2'-methylenediphenyl diisocyanate	2536-05-2	219-79	9-4 56, 74
2	diphenylmethane-2,4'-diisocyanate	5873-54-1	227-53	4-9 56, 74
3	diphenylmethane-4,4'-diisocyanate	101-68-8	202-96	6-0 56, 74
4	diphenylmethanediisocyanate, isomeres and homologues	9016-87-9	-	56, 74

# Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances This substance is not subject to Part 1 or 2 of Annex I

#### 15.2 Chemical safety assessment

A chemical safety assessment has not been carried out.

### **SECTION 16: Other information**

#### **Further information**

ISOPA directives for safe loading/unloading, transport and storage of TDI and MDI. See ISOPA website: www.isopa.org (Product Stewardship "Walk the Talk").

Safety precautions for handling freshly molded polyurethane parts:

Depending on the production parameters, any uncovered surfaces of freshly molded polyurethane parts using this raw material may contain traces of substances (e. g. starting and reaction products, catalysts, release agents) with hazardous characteristics. Skin contact



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with traces of these substances must be avoided. Therefore, during demolding or other handling of fresh molded parts, protective gloves tested according to DIN-EN 374 (e. g. nitrile rubber >= 0,35 mm thick, breakthrough time >= 480 min, or according to recommendations from glove makers thinner gloves that need to be changed in compliance with breakthrough times more frequently) must be used. Depending on formulation and processing conditions, the requirements may be different from handling of the pure substances. Closed protective clothing is required for the protection of other areas of skin.

#### Sources of key data used to compile the data sheet:

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case. Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.

#### Creation of the safety data sheet

UMCO GmbH - D-21107 Hamburg, Georg-Wilhelm-Strasse 187, Tel.: +49(40)555 546 300, Fax: +49(40)555 546 357, e-mail: umco@umco.de

This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

#### Alterations/supplements:

Alterations to the previous edition are marked in the left-hand margin.

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