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# Safety Data Sheet

acc. to OSHA HCS

Printing date 07/23/2019

Reviewed on 07/23/2019

Product ident	ifier	
Trade name:	D-9000	
Article numb	er: DCHUSS08600	
Application of	f the substance / the mi	xture Adhesives
EU-Importeut chemical regi Lieferant/ Sup	oducer: EFTEC AG, H / EU-Importer: EFTEC stration in EU) plier: DINOL GmbH,	ofstrasse 31, CH-8590 Romanshorn C Ltd., Rhigos/Aberdare, GB-Mid Glamorgan CF44 9UE (Responsible for Pyrmonterstrasse 76, D-32676 Lügde
v	lepartment: msds@dinc	ol.com
•		Giftnotruf Berlin, Beratung in Deutsch und Englisch Dixikologisches Informationszentrum

# 2 Hazard(s) identification

#### Classification of the substance or mixture

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin Sens. 1 H317 May cause an allergic skin reaction.

Carc. 2 H351 Suspected of causing cancer.

#### Label elements

*GHS label elements* The product is classified and labeled according to the Globally Harmonized System (GHS). *Hazard pictograms* 



Signal word Danger

Hazard-determining components of labeling: Carbon black Diphenylmethan-4,4'-diisocyanat Hazard statements H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H317 May cause an allergic skin reaction. H351 Suspected of causing cancer. **Precautionary statements** P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P261 Avoid breathing dust/fume/gas/mist/vapors/spray Contaminated work clothing must not be allowed out of the workplace. P272 P280 Wear protective gloves/protective clothing/eye protection/face protection.

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P280	Wear protective gloves.
P284	[In case of inadequate ventilation] wear respiratory protection.
	If on skin: Wash with plenty of water.
	If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.
	IF exposed or concerned: Get medical advice/attention.
P321	Specific treatment (see on this label).
	If skin irritation or rash occurs: Get medical advice/attention.
	If experiencing respiratory symptoms: Call a poison center/doctor.
P363	Wash contaminated clothing before reuse.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
Classificatio	
NFPA ratin	gs (scale 0 - 4)
	Health = 0
	Fire = 1
	Reactivity $= 0$
$\checkmark$	
HMIS-ratin	gs (scale 0 - 4)
HEALTH	• $Health = 0$
	1 Fire = 1
	$\frac{1}{2}$ Reactivity = 0
Other hazar	ds none
<b>Results of P</b>	BT and vPvB assessment
PBT: Not a	
vPvB: Not a	pplicable.
	••
<b>3</b> Composit	ion/information on ingredients

#### 3 Composition/information on ingredients

Chemical characterization: Mixtures

Description: Mixture of the substances listed below with nonhazardous additions.

Dangerous components:		
	Carbon black	25-50%
EINECS: 215-609-9	🚸 Carc. 2, H351	
	Diphenylmethan-4,4'-diisocyanat	<b>≥</b> 0.1-<1%
EINECS: 202-966-0	Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; (1) Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317; STOT SE 3,	
	H335	
Additional informati	ion: For the wording of the listed hazard phrases refer to section 16.	

# 4 First-aid measures

#### Description of first aid measures 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. Supply fresh air; consult doctor in case of complaints. Seek medical treatment in case of complaints. After skin contact: Immediately wash with water and soap and rinse thoroughly.

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Immediately rinse with water. After eye contact: Rinse opened eye for several minutes under running water. After swallowing: Immediately call a doctor. Information for doctor: Most important symptoms and effects, both acute and delayed No further relevant information available. Indication of any immediate medical attention and special treatment needed No further relevant information available.

## **5** Fire-fighting measures

Extinguishing media Suitable extinguishing agents: CO2, extinguishing powder or water spray. Fight larger fires with water spray. Use fire fighting measures that suit the environment. Special hazards arising from the substance or mixture No further relevant information available. Advice for firefighters Protective equipment: No special measures required.

## 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures Not required. **Environmental precautions:** Do not allow to enter sewers/ surface or ground water. Methods and material for containment and cleaning up: Pick up mechanically. Ensure adequate ventilation. 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. **Protective Action Criteria for Chemicals PAC-1**: 9082-00-2 Polyetherpolyol  $30 \text{ mg/m}^3$ 1333-86-4 Carbon black  $9 mg/m^3$ 101-68-8 Diphenylmethan-4,4'-diisocyanat  $0.45 \ mg/m^3$ 107-66-4 Dibutylphosphat 2 ppm 77-58-7 Dibutylzinndilaurat  $1.1 \ mg/m^3$ **PAC-2**: 9082-00-2 Polyetherpolyol 330 mg/m<sup>3</sup> 1333-86-4 Carbon black 99 mg/ $m^{3}$ 101-68-8 Diphenylmethan-4,4'-diisocyanat  $5 mg/m^3$ 107-66-4 Dibutylphosphat 21 ppm 77-58-7 Dibutylzinndilaurat  $8 mg/m^3$ PAC-3: 9082-00-2 Polyetherpolyol  $2,000 \text{ mg/m}^3$ 1333-86-4 Carbon black 590 mg/m<sup>3</sup> 101-68-8 Diphenylmethan-4,4'-diisocyanat  $55 mg/m^3$ 107-66-4 Dibutylphosphat 125 ppm (Contd. on page 4) Page 4/10

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77-58-7 Dibutylzinndilaurat

(Contd. of page 3)  $48 mg/m^3$ 

## 7 Handling and storage

#### Handling:

**Precautions for safe handling** No special measures required. Open and handle receptacle with care. **Information about protection against explosions and fires:** Keep respiratory protective device available.

Conditions for safe storage, including any incompatibilities Storage: Requirements to be met by storerooms and receptacles: No special requirements. Information about storage in one common storage facility: Not required. Further information about storage conditions: Keep receptacle tightly sealed. Maximum storage temperature: < 35°C Minimum storage temperature: > 0°C Storage temperature: 0 - 35 °C Storage class: 10 Specific end use(s) No further relevant information available.

## 8 Exposure controls/personal protection

#### Additional information about design of technical systems: No further data; see item 7.

Components with lim	it values that require monitoring at the workplace:	
1333-86-4 Carbon bl	ack	
PEL (USA)	Long-term value: 3.5 mg/m <sup>3</sup>	
REL (USA)	Long-term value: 3.5* mg/m³ *0.1 in presence of PAHs;See Pocket Guide Apps.A+C	
TLV (USA)	Long-term value: 3* mg/m³ *inhalable fraction	
EL (Canada english)	Long-term value: 3 mg/m <sup>3</sup> IARC 2B	
EV (Canada english)	Long-term value: 3.5 mg/m <sup>3</sup>	
101-68-8 Diphenylm	ethan-4,4'-diisocyanat	
PEL (USA)	Ceiling limit value: 0.2 mg/m <sup>3</sup> , 0.02 ppm	
REL (USA)	Long-term value: 0.05 mg/m³, 0.005 ppm Ceiling limit value: 0.2* mg/m³, 0.02* ppm *10-min	
TLV (USA)	Long-term value: 0.051 mg/m³, 0.005 ppm	
EL (Canada english)	Long-term value: 0.005 ppm Ceiling limit value: 0.01 ppm Skin; S(R)	
EV (Canada english)	Long-term value: 0.005 ppm Ceiling limit value: 0.02 ppm	

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Exposure controls Personal protective equipment: General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Store protective clothing separately. Breathing equipment:



Use suitable respiratory protective device in case of insufficient ventilation.

*Filter A/P2 Protection of hands:* 



Protective gloves

Chemical resistant protective gloves with CE-labeling To minimize the wetness in the glove due to perspiration changing of gloves during a shift is required. Softening of the callus when wearing air-impermeable gloves is possible. Check the permeability prior to each anewed use of the glove. Material of gloves

#### Nitrile rubber, NBR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. **Penetration time of glove material** 

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

#### Eye protection:



Safety glasses

#### **Body protection:**



Protective work clothing

# 9 Physical and chemical properties

Information on basic ph	ysical and chemical properties
General Information	
Appearance:	
Form:	Fluid
Color:	Black
Odor:	Characteristic

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Odor threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition Melting point/Melting range: Boiling point/Boiling range:	Undetermined. 270 °C (518 °F)	
Flash point:	164 °C (327.2 °F)	
Flammability (solid, gaseous):	Not applicable.	
Ignition temperature:	>300 °C (>572 °F)	
Decomposition temperature:	Not determined.	
Auto igniting:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits: Lower: Upper:	Not determined. Not determined.	
Vapor pressure:	Not determined.	
Density at 20 °C (68 °F): Relative density Vapor density Evaporation rate	1.13-1.15 g/cm <sup>3</sup> (9.43-9.6 lbs/gal) Not determined. Not determined. Not determined.	
Solubility in / Miscibility with Water:	Not miscible or difficult to mix.	
Partition coefficient (n-octanol/wa	ter): Not determined.	
Viscosity: Dynamic:	Not determined.	
Kinematic: Other information	Not determined. No further relevant information available.	

# **10 Stability and reactivity**

**Reactivity** No further relevant information available.

Chemical stability

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

Possibility of hazardous reactions No dangerous reactions known.

Conditions to avoid No further relevant information available.

Incompatible materials: No further relevant information available.

Hazardous decomposition products: No dangerous decomposition products known.

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	values th	nat are relevant for classification:	
ATE (Acı	ute Toxicii	ity Estimate)	
Oral	LD50	>5,232 mg/kg (rat)	
Dermal	LD50	>5,232 mg/kg (rabbit)	
1333-86-4	4 Carbon	black	
Oral	LD50	>8,000 mg/kg (rat) (Literatur)	
101-68-8	Diphenyl	methan-4,4'-diisocyanat	
Oral	LD50	4,700 mg/kg (rat)	
Inhalative	e LC50/4	4h 370 mg/l (rat)	
on the ski on the ey Sensitizat Sensitizat	e: No irrita tion: tion possib	itant effect. tating effect. ble through inhalation.	
Other inf Additiona The produ Harmful Irritant Carcinog	formation al toxicolo uct shows enic categ	-	preparation
Other inf Additiona The produ Harmful Irritant Carcinog IARC (In	formation al toxicolo uct shows enic categ ternationa	(about experimental toxicology): ogical information: the following dangers according to internally approved calculation methods for p gories al Agency for Research on Cancer)	
Other inf Additiona The produ Harmful Irritant Carcinog IARC (In 1333-86-	ormation al toxicolo uct shows enic categ aternationa 4 Carbon	(about experimental toxicology): ogical information: the following dangers according to internally approved calculation methods for p gories al Agency for Research on Cancer) a black	2
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Other inf Additiona The produ Harmful Irritant Carcinog IARC (In 1333-86- 101-68- NTP (Na	Formation al toxicolo uct shows eenic categ ternationa (4 Carbon 8 Dipheny tional Tox	(about experimental toxicology): ogical information: the following dangers according to internally approved calculation methods for p gories al Agency for Research on Cancer) a black ylmethan-4,4'-diisocyanat xicology Program)	2
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Aquatic to:	xicity:
1333-86-4	Carbon black
LC50/ 96h	>1,000 mg/l (fish) (OECD 203)
EC50/ 24h	>5,600 mg/l (daphnia) (OECD 202)
101-68-8 L	Diphenylmethan-4,4'-diisocyanat
	0 0 /
LC50/ 96h	>1,000 mg/l (fish)
<i>EC50</i>	>100 mg/l (bacteria)
	(Contd. on page 8)
<b>101-68-8 D</b> LC50	Diphenylmethan-4,4'-diisocyanat >100 mg/l (fish) >1,000 mg/l (fish) >100 mg/l (bacteria)

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EC50/24h >1,000 mg/l (daphnia)

Persistence and degradability No further relevant information available.
Behavior in environmental systems:
Bioaccumulative potential No further relevant information available.
Mobility in soil No further relevant information available.
Additional ecological information:
General notes:
Water hazard class 1 (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.
Results of PBT and vPvB assessment
PBT: Not applicable.
VPvB: Not applicable.
Other adverse effects No further relevant information available.

## **13 Disposal considerations**

Waste treatment methods Recommendation: Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.

UN-Number		
DOT, ADR, ADN, IMDG, IATA	Void	
UN proper shipping name DOT, ADR, ADN, IMDG, IATA	Void	
Transport hazard class(es)		
DOT, ADR, ADN, IMDG, IATA		
Class	Void	
Packing group		
DOT, ADR, IMDG, IATA	Void	
Environmental hazards:	Not applicable.	
Special precautions for user	Not applicable.	
Transport in bulk according to Annex	II of	
MARPOL73/78 and the IBC Code	Not applicable.	

# **15 Regulatory information**

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

Section 355 (extremely hazardous substances):

None of the ingredient is listed.

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101-68-8       Diphenylmethan-4,4'-diisocyanat         TSCA (Toxic Substances Control Act):         All components have the value ACTIVE.         Hazardous Air Pollutants         101-68-8       Diphenylmethan-4,4'-diisocyanat         Proposition 65         Chemicals known to cause cancer:         28553-12-0       Phthalsäuredi-3,5,5-trimethylhexylester         Chemicals known to cause reproductive toxicity for females:         None of the ingredients is listed.         Chemicals known to cause reproductive toxicity for males:         None of the ingredients is listed.         Chemicals known to cause developmental toxicity:         None of the ingredients is listed.         Cancerogenity categories         EPA (Environmental Protection Agency)         101-68-8       Diphenylmethan-4,4'-diisocyanat         Dilotsk       Dibutylzinndilaurat         NIOSH-Ca (National Institute for Occupational Safety and Health)         1333-86-4       Carbon black         Canadian substance listings:         Canadian Ingredient Disclosure list (limit 0.1%)         101-68-8       Diphenylmethan-4,4'-diisocyanat	01-68-8       Diphenylmethan-4,4'-diisocyanat         SCA (Toxic Substances Control Act):		(Contd. of page
TSCA (Toxic Substances Control Act):         All components have the value ACTIVE.         Hazardous Air Pollutants         101-68-8 Diphenylmethan-4,4'-diisocyanat         Proposition 65         Chemicals known to cause cancer:         28553-12-0 Phthalsäuredi-3,5,5-trimethylhexylester         Chemicals known to cause reproductive toxicity for females:         None of the ingredients is listed.         Chemicals known to cause reproductive toxicity for males:         None of the ingredients is listed.         Chemicals known to cause developmental toxicity:         None of the ingredients is listed.         Clamerogenity categories         EPA (Environmental Protection Agency)         101-68-8 Diphenylmethan-4,4'-diisocyanat         Dibutylzinndilaurat         NIOSH-Ca (National Institute for Occupational Safety and Health)         1333-86-4 Carbon black         Canadian substance listings:         Canadian substance listings:         Canadian Ingredient Disclosure list (limit 0.1%)         101-68-8 Diphenylmethan-4,4'-diisocyanat         Chemicals substance listings:         Canadian Ingredient Disclosure list (limit 0.1%)         101-68-8 Diphenylmethan-4,4'-diisocyanat         Canadian Ingredient Disclosure list (limit 1%)         1333-86-4 Carbon black         C	SCA (Toxic Substances Control Act): NII components have the value ACTIVE. Iazardous Air Pollutants 01-68-8 [Diphenylmethan-4,4'-diisocyanat Proposition 65 Themicals known to cause cancer: 18553-12-0 [Phthalsäuredi-3,5,5-trimethylhexylester Themicals known to cause reproductive toxicity for females: None of the ingredients is listed. Chemicals known to cause reproductive toxicity for males: None of the ingredients is listed. Chemicals known to cause reproductive toxicity for males: None of the ingredients is listed. Chemicals known to cause developmental toxicity: None of the ingredients is listed. Chemicals known to cause developmental toxicity: None of the ingredients is listed. Chemicals known to cause developmental toxicity: None of the ingredients is listed. Chemicals known to cause developmental toxicity: None of the ingredients is listed. Chemicals known to cause developmental toxicity: None of the ingredients is listed. Chemicals known to cause developmental toxicity: None of the ingredients is listed. Chemicals known to cause developmental toxicity: None of the ingredients is listed. Chemicals known to cause developmental toxicity: None of the ingredients is listed. Chemicals known to cause developmental toxicity: None of the ingredients is listed. Chemicals known to cause developmental toxicity: None of the ingredient Sisted. Chemicals known to cause developmental toxicity: None of the ingredient of Agency) 01-68-8 [Diphenylmethan-4,4'-diisocyanat Canadian Ingredient Disclosure list (limit 0.1%) 01-68-8 [Diphenylmethan-4,4'-diisocyanat Canadian Ingredient Disclosure list (limit 1%) 333-86-4 [Carbon black National regulations:	Section 313 (Specific toxic chemical listings):	
All components have the value ACTIVE.         Hazardous Air Pollutants         101-68-8 Diphenylmethan-4,4'-diisocyanat         Proposition 65         Chemicals known to cause cancer:         28535-12-0 Phthalsäuredi-3,5,5-trimethylhexylester         Chemicals known to cause reproductive toxicity for females:         None of the ingredients is listed.         Chemicals known to cause reproductive toxicity for males:         None of the ingredients is listed.         Chemicals known to cause developmental toxicity:         None of the ingredients is listed.         Cancerogenity categories         EPA (Environmental Protection Agency)         101-68-8 Diphenylmethan-4,4'-diisocyanat         Dibutylzinndilaurat         NIOSH-Ca (National Institute for Occupational Safety and Health)         1333-86-4 Carbon black         Canadian Ingredient Disclosure list (limit 0.1%)         101-68-8 Diphenylmethan-4,4'-diisocyanat         Canadian Ingredient Disclosure list (limit 1%)         1333-86-4 Carbon black         Canadian Ingredient Disclosure list (limit 1%)         1333-86-4 Carbon black         Canadian Ingredient Disclosure list (limit 1%)         1333-86-4 Carbon black         Canadian Ingredient Disclosure list (limit 1%)         1333-86-4 Carbon black	All components have the value ACTIVE.         Tazardous Air Pollutants         01-68-8       Diphenylmethan-4,4'-diisocyanat         Proposition 65         Chemicals known to cause cancer:         18553-12-0       Phthalsäuredi-3,5,5-trimethylhexylester         Chemicals known to cause reproductive toxicity for females:         None of the ingredients is listed.         Chemicals known to cause reproductive toxicity for males:         None of the ingredients is listed.         Chemicals known to cause developmental toxicity:         None of the ingredients is listed.         Chemicals known to cause developmental toxicity:         None of the ingredients is listed.         Chemicals known to cause developmental toxicity:         None of the ingredients is listed.         Chemicals known to cause developmental toxicity:         None of the ingredients is listed.         Chemicals known to cause developmental toxicity:         None of the ingredients is listed.         Chemicals known to cause developmental toxicity:         None of the ingredients is listed.         Chemicals known to cause developmental toxicity:         Vion of the ingredients is listed.         Chemicals known to cause developmental toxicity:         Vion of the ingredients is listed.         Carbor black       A	101-68-8 Diphenylmethan-4,4'-diisocyanat	
Hazardous Air Pollutants         101-68-8       Diphenylmethan-4,4'-diisocyanat         Proposition 65         Chemicals known to cause cancer:         28553-12-0       Phthalsäuredi-3,5,5-trimethylhexylester         Chemicals known to cause reproductive toxicity for females:         None of the ingredients is listed.         Chemicals known to cause reproductive toxicity for males:         None of the ingredients is listed.         Chemicals known to cause developmental toxicity:         None of the ingredients is listed.         Chemicals known to cause developmental toxicity:         None of the ingredients is listed.         Cancerogenity categories         EPA (Environmental Protection Agency)         101-68-8       Diphenylmethan-4,4'-diisocyanat         Dibutylcinndilaurat       D, CI         NIOSH-Ca (National Institute for Occupational Safety and Health)         1333-86-4       Carbon black         Canadian substance listings:         Canadian substance listings:         Canadian Ingredient Disclosure list (limit 0.1%)         1333-86-4       Carbon black         Diphenylmethan-4,4'-diisocyanat         Canadian Ingredient Disclosure list (limit 1%)         1333-86-4       Carbon black         Notasian lingredient Disclosure list (limit 1%)	Harardous Air Pollutants         01-68-8       Diphenylmethan-4.4'-diisocyanat         Proposition 65         Chemicals known to cause cancer:         8553-12-0       Phthalsäuredi-3,5,5-trimethylhexylester         Chemicals known to cause reproductive toxicity for females:         None of the ingredients is listed.         Chemicals known to cause reproductive toxicity for males:         None of the ingredients is listed.         Chemicals known to cause developmental toxicity:         None of the ingredients is listed.         Chemicals known to cause developmental toxicity:         None of the ingredients is listed.         Chemicals known to cause developmental toxicity:         None of the ingredients is listed.         Chemicals known to cause developmental toxicity:         None of the ingredients is listed.         Chemicals known to cause developmental toxicity:         None of the ingredients is listed.         Chemicals known to cause developmental toxicity:         None of the ingredients is listed.         Chemicals known to cause developmental toxicity:         None of the ingredients is listed.         Chemicals known to cause developmental toxicity:         None of the ingredients is listed.         Carbon black       A         Dibutylzinndilaurat       A </td <td>TSCA (Toxic Substances Control Act):</td> <td></td>	TSCA (Toxic Substances Control Act):	
101-68-8       Diphenylmethan-4,4'-diisocyanat         Proposition 65         Chemicals known to cause cancer:         28553-12-0       Phthalsäuredi-3,5,5-trimethylhexylester         Chemicals known to cause reproductive toxicity for females:         None of the ingredients is listed.         Chemicals known to cause reproductive toxicity for males:         None of the ingredients is listed.         Chemicals known to cause developmental toxicity:         None of the ingredients is listed.         Chemicals known to cause developmental toxicity:         None of the ingredients is listed.         Cancerogenity categories         EPA (Environmental Protection Agency)         101-68-8       Diphenylmethan-4,4'-diisocyanat         Dibutylzinndilaurat       D         NIOSH-Ca (National Institute for Occupational Safety and Health)         1333-86-4       Carbon black         Canadian substance listings:       Canadian substance listings:         Canadian Ingredient Disclosure list (limit 0.1%)       1333-86-4         Carbon black       Image: list (limit 1%)         1333-86-4       Carbon black         Canadian Ingredient Disclosure list (limit 1%)         1333-86-4       Carbon black         Canadian Ingredient Disclosure list (limit 1%)         1333-86-4 <td>01-68-8       Diphenylmethan-4,4'-diisocyanat         Proposition 65         Chemicals known to cause cancer:         18553-12-0       Phthalsäuredi-3,5,5-trimethylhexylester         Chemicals known to cause reproductive toxicity for females:         None of the ingredients is listed.         Chemicals known to cause reproductive toxicity for males:         None of the ingredients is listed.         Chemicals known to cause developmental toxicity:         None of the ingredients is listed.         Chemicals known to cause developmental toxicity:         None of the ingredients is listed.         Chemicals known to cause developmental toxicity:         None of the ingredients is listed.         Chemicals known to cause developmental toxicity:         None of the ingredients is listed.         Chemicals known to cause developmental toxicity:         None of the ingredient is listed.         Chemicals known to cause developmental toxicity:         None of the ingrediental substance         Diphenylmethan-4,4'-diisocyanat         Diphenylmethan-4,4'-diisocyanat         ANIOSH-Ca (National Institute for Occupational Safety and Health)         333-86-4       Carbon black         Canadian Ingredient Disclosure list (limit 0.1%)         01-68-8       Diphenylmethan-4,4'-diisocyanat</td> <td>All components have the value ACTIVE.</td> <td></td>	01-68-8       Diphenylmethan-4,4'-diisocyanat         Proposition 65         Chemicals known to cause cancer:         18553-12-0       Phthalsäuredi-3,5,5-trimethylhexylester         Chemicals known to cause reproductive toxicity for females:         None of the ingredients is listed.         Chemicals known to cause reproductive toxicity for males:         None of the ingredients is listed.         Chemicals known to cause developmental toxicity:         None of the ingredients is listed.         Chemicals known to cause developmental toxicity:         None of the ingredients is listed.         Chemicals known to cause developmental toxicity:         None of the ingredients is listed.         Chemicals known to cause developmental toxicity:         None of the ingredients is listed.         Chemicals known to cause developmental toxicity:         None of the ingredient is listed.         Chemicals known to cause developmental toxicity:         None of the ingrediental substance         Diphenylmethan-4,4'-diisocyanat         Diphenylmethan-4,4'-diisocyanat         ANIOSH-Ca (National Institute for Occupational Safety and Health)         333-86-4       Carbon black         Canadian Ingredient Disclosure list (limit 0.1%)         01-68-8       Diphenylmethan-4,4'-diisocyanat	All components have the value ACTIVE.	
Proposition 65         Chemicals known to cause cancer:         28553-12-0         Phthalsäuredi-3,5,5-trimethylhexylester         Chemicals known to cause reproductive toxicity for females:         None of the ingredients is listed.         Chemicals known to cause reproductive toxicity for males:         None of the ingredients is listed.         Chemicals known to cause developmental toxicity:         None of the ingredients is listed.         Cancerogenity categories         EPA (Environmental Protection Agency)         101-68-8       Diphenylmethan-4,4'-diisocyanat         Dibutylzinndilaurat       D         NIOSH-Ca (National Institute for Occupational Safety and Health)         1333-86-4       Carbon black         Canadian Ingredient Disclosure list (limit 0.1%)         101-68-8       Diphenylmethan-4,4'-diisocyanat         Canadian Ingredient Disclosure list (limit 1%)         1333-86-4       Carbon black         Canadian Ingredient Disclosure list (limit 1%)         1333-86-4       Carbon black         Canadian Ingredient Disclosure list (limit 1%)         1333-86-4       Carbon black         Canadian Ingredient Disclosure list (limit 1%)         1333-86-4       Carbon black         Notional regulations:       Technical instructi	Proposition 65         Chemicals known to cause cancer:         28553-12-0         Phthalsäuredi-3,5,5-trimethylhexylester         Chemicals known to cause reproductive toxicity for females:         None of the ingredients is listed.         Chemicals known to cause reproductive toxicity for males:         None of the ingredients is listed.         Chemicals known to cause developmental toxicity:         None of the ingredients is listed.         Chemicals known to cause developmental toxicity:         None of the ingredients is listed.         Chemicals known to cause developmental toxicity:         None of the ingredients is listed.         Chemicals known to cause developmental toxicity:         None of the ingredients is listed.         Chemicals known to cause developmental toxicity:         None of the ingredients is listed.         Chemicals known to cause developmental toxicity:         None of the ingredients is listed.         Chemicals known to cause developmental toxicity:         None of the ingredient of the comparison of the ingredient of the ingredient of the comparison of the ingredient of the	Hazardous Air Pollutants	
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28553-12-0       Phthalsäuredi-3,5,5-trimethylhexylester         Chemicals known to cause reproductive toxicity for females:         None of the ingredients is listed.         Chemicals known to cause reproductive toxicity for males:         None of the ingredients is listed.         Chemicals known to cause developmental toxicity:         None of the ingredients is listed.         Cancerogenity categories         EPA (Environmental Protection Agency)         101-68-8       Diphenylmethan-4,4'-diisocyanat         D. CI         TLV (Threshold Limit Value established by ACGIH)         Carbon black	R553-12-0       Phthalsäuredi-3,5,5-trimethylhexylester         Chemicals known to cause reproductive toxicity for females:         None of the ingredients is listed.         Chemicals known to cause reproductive toxicity for males:         None of the ingredients is listed.         Chemicals known to cause developmental toxicity:         None of the ingredients is listed.         Chemicals known to cause developmental toxicity:         None of the ingredients is listed.         Cancerogenity categories         EPA (Environmental Protection Agency)         01-68-8       Diphenylmethan-4,4'-diisocyanat         Diotylzinndilaurat       D, CB.         VIOSH-Ca (National Institute for Occupational Safety and Health)         333-86-4       Carbon black         Canadian substance listings:         Canadian Ingredient Disclosure list (limit 0.1%)         01-68-8       Diphenylmethan-4,4'-diisocyanat         Carbon black       A         VIOSH-Ca (National Institute for Occupational Safety and Health)         333-86-4       Carbon black         Canadian Ingredient Disclosure list (limit 0.1%)         01-68-8       Diphenylmethan-4,4'-diisocyanat         Canadian Ingredient Disclosure list (limit 1%)         333-86-4       Carbon black         Vational regulations:	Proposition 65	
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Chemicals known to cause reproductive toxicity for males:         None of the ingredients is listed.         Chemicals known to cause developmental toxicity:         None of the ingredients is listed.         Cancerogenity categories         EPA (Environmental Protection Agency)         101-68-8       Diphenylmethan-4,4'-diisocyanat         TLV (Threshold Limit Value established by ACGIH)         Carbon black	Chemicals known to cause reproductive toxicity for males:         None of the ingredients is listed.         Chemicals known to cause developmental toxicity:         None of the ingredients is listed.         Cancerogenity categories         EPA (Environmental Protection Agency)         01-68-8       Diphenylmethan-4,4'-diisocyanat         Dibutylzinndilaurat       D, CB.         VIOSH-Ca (National Institute for Occupational Safety and Health)       333-86-4         Carbon black       Carbon black         Canadian substance listings:       Enandian Ingredient Disclosure list (limit 0.1%)         01-68-8       Diphenylmethan-4,4'-diisocyanat         Canadian Ingredient Disclosure list (limit 1%)       333-86-4         Carbon black       Carbon black	Chemicals known to cause reproductive toxicity for females:	
None of the ingredients is listed.         Chemicals known to cause developmental toxicity:         None of the ingredients is listed.         Cancerogenity categories         EPA (Environmental Protection Agency)         101-68-8       Diphenylmethan-4,4'-diisocyanat         D. CI         TLV (Threshold Limit Value established by ACGIH)         Carbon black         Dibutylzinndilaurat         NIOSH-Ca (National Institute for Occupational Safety and Health)         1333-86-4         Caradian substance listings:         Canadian Ingredient Disclosure list (limit 0.1%)         101-68-8         Diphenylmethan-4,4'-diisocyanat         Canadian Ingredient Disclosure list (limit 1%)         1333-86-4       Carbon black         Canadian Ingredient Disclosure list (limit 1%)         1333-86-4       Carbon black	None of the ingredients is listed.         Chemicals known to cause developmental toxicity:         None of the ingredients is listed.         Cancerogenity categories         EPA (Environmental Protection Agency)         01-68-8       Diphenylmethan-4,4'-diisocyanat         Dibutylzinndilaurat       D, CB.         Carbon black       A         Dibutylzinndilaurat       A         VIOSH-Ca (National Institute for Occupational Safety and Health)       333-86-4         Caradian substance listings:       Canadian Ingredient Disclosure list (limit 0.1%)         01-68-8       Diphenylmethan-4,4'-diisocyanat         Canadian Ingredient Disclosure list (limit 1%)       333-86-4         Carbon black       A         Vational regulations:       Vational regulations:	None of the ingredients is listed.	
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EPA (Environmental Protection Agency)         101-68-8       Diphenylmethan-4,4'-diisocyanat       D, Cl         TLV (Threshold Limit Value established by ACGIH)	EPA (Environmental Protection Agency)         01-68-8       Diphenylmethan-4,4'-diisocyanat         D, CB.         FLV (Threshold Limit Value established by ACGIH)         Carbon black       A         Dibutylzinndilaurat       A         VIOSH-Ca (National Institute for Occupational Safety and Health)       A         333-86-4       Carbon black       Carbon black         Canadian substance listings:       Canadian Ingredient Disclosure list (limit 0.1%)       Canadian Ingredient Disclosure list (limit 1%)         333-86-4       Carbon black       Carbon black       Canadian Ingredient Disclosure list (limit 1%)         333-86-4       Carbon black       Canadian Ingredient Disclosure list (limit 1%)       Canadian Ingredient Disclosure list (limit 1%)         Canadian Ingredient Disclosure list (limit 1%)       Carbon black       Canadian Ingredient Disclosure list (limit 1%)         Canadian Ingredient Disclosure list (limit 1%)       Carbon black       Carbon black	None of the ingredients is listed.	
101-68-8       Diphenylmethan-4,4'-diisocyanat       D, Cl         TLV (Threshold Limit Value established by ACGIH)         Carbon black       .         Dibutylzinndilaurat       .         NIOSH-Ca (National Institute for Occupational Safety and Health)       .         1333-86-4       Carbon black       .         Canadian substance listings:       .         Canadian Ingredient Disclosure list (limit 0.1%)       .         101-68-8       Diphenylmethan-4,4'-diisocyanat         Canadian Ingredient Disclosure list (limit 1%)       .         1333-86-4       Carbon black         Canadian Ingredient Disclosure list (limit 1%)         1333-86-4       Carbon black         Canadian Ingredient Disclosure list (limit 1%)         1333-86-4       Carbon black         Canadian Ingredient Disclosure list (limit 1%)         1333-86-4       Carbon black         National regulations:         Technical instructions (air):	01-68-8       Diphenylmethan-4,4'-diisocyanat       D, CB. <b>LV (Threshold Limit Value established by ACGIH)</b> A         Carbon black       A         Dibutylzinndilaurat       A <b>NIOSH-Ca (National Institute for Occupational Safety and Health)</b> A         333-86-4       Carbon black       A         Canadian substance listings:       Canadian Ingredient Disclosure list (limit 0.1%)       B         01-68-8       Diphenylmethan-4,4'-diisocyanat       Canadian Ingredient Disclosure list (limit 1%)         333-86-4       Carbon black       Canadian Ingredient Disclosure list (limit 1%)         333-86-4       Carbon black       Canadian Ingredient Disclosure list (limit 1%)	Cancerogenity categories	
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NIOSH-Ca (National Institute for Occupational Safety and Health)         1333-86-4       Carbon black         Canadian substance listings:         Canadian Ingredient Disclosure list (limit 0.1%)         101-68-8       Diphenylmethan-4,4'-diisocyanat         Canadian Ingredient Disclosure list (limit 1%)         1333-86-4       Carbon black         National regulations:         Technical instructions (air):	NIOSH-Ca (National Institute for Occupational Safety and Health)         333-86-4       Carbon black         Canadian substance listings:         Canadian Ingredient Disclosure list (limit 0.1%)         01-68-8       Diphenylmethan-4,4'-diisocyanat         Canadian Ingredient Disclosure list (limit 1%)         333-86-4       Carbon black	Carbon black	A
1333-86-4       Carbon black         Canadian substance listings:       Canadian Ingredient Disclosure list (limit 0.1%)         101-68-8       Diphenylmethan-4,4'-diisocyanat         Canadian Ingredient Disclosure list (limit 1%)       1333-86-4         Carbon black       Carbon black         National regulations:       Technical instructions (air):	333-86-4       Carbon black         Canadian substance listings:       Canadian Ingredient Disclosure list (limit 0.1%)         01-68-8       Diphenylmethan-4,4'-diisocyanat         Canadian Ingredient Disclosure list (limit 1%)       333-86-4         Carbon black       Carbon black         National regulations:       Carbon black	Dibutylzinndilaurat	A
Canadian substance listings:         Canadian Ingredient Disclosure list (limit 0.1%)         101-68-8       Diphenylmethan-4,4'-diisocyanat         Canadian Ingredient Disclosure list (limit 1%)         1333-86-4       Carbon black         National regulations:         Technical instructions (air):	Canadian substance listings:         Canadian Ingredient Disclosure list (limit 0.1%)         01-68-8       Diphenylmethan-4,4'-diisocyanat         Canadian Ingredient Disclosure list (limit 1%)         333-86-4       Carbon black         National regulations:	NIOSH-Ca (National Institute for Occupational Safety and Health)	
Canadian Ingredient Disclosure list (limit 0.1%) 101-68-8 Diphenylmethan-4,4'-diisocyanat Canadian Ingredient Disclosure list (limit 1%) 1333-86-4 Carbon black National regulations: Technical instructions (air):	Canadian Ingredient Disclosure list (limit 0.1%) 01-68-8 Diphenylmethan-4,4'-diisocyanat Canadian Ingredient Disclosure list (limit 1%) 333-86-4 Carbon black National regulations:	1333-86-4 Carbon black	
101-68-8       Diphenylmethan-4,4'-diisocyanat         Canadian Ingredient Disclosure list (limit 1%)         1333-86-4       Carbon black         National regulations:         Technical instructions (air):	01-68-8 Diphenylmethan-4,4'-diisocyanat Canadian Ingredient Disclosure list (limit 1%) 333-86-4 Carbon black National regulations:	Canadian substance listings:	
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1333-86-4 Carbon black National regulations: Technical instructions (air):	333-86-4 Carbon black National regulations:	101-68-8 Diphenylmethan-4,4'-diisocyanat	
National regulations: Technical instructions (air):	National regulations:	Canadian Ingredient Disclosure list (limit 1%)	
Technical instructions (air):		1333-86-4 Carbon black	
Technical instructions (air):		National regulations:	
Class Share in %	Class Share in %		

**USA-VOC:** 0.0 g/l / 0.00 lb/gal

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

## **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.

Department issuing SDS: Entwicklung Contact: msds@dinol.com Date of preparation / last revision 07/23/2019 / -

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### Trade name: D-9000

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Abbreviations and acronyms:	
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the In	iternational
Carriage of Dangerous Goods by Road)	
IMDG: International Maritime Code for Dangerous Goods	
DOT: US Department of Transportation	
IATA: International Air Transport Association	
ACGIH: American Conference of Governmental Industrial Hygienists	
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)	
NFPA: National Fire Protection Association (USA)	
HMIS: Hazardous Materials Identification System (USA)	
LC50: Lethal concentration, 50 percent	
LD50: Lethal dose, 50 percent	
PBT: Persistent, Bioaccumulative and Toxic	
vPvB: very Persistent and very Bioaccumulative	
NIOSH: National Institute for Occupational Safety	
OSHA: Occupational Safety & Health	
TLV: Threshold Limit Value	
PEL: Permissible Exposure Limit	
REL: Recommended Exposure Limit	
Acute Tox. 4: Acute toxicity – Category 4	
Skin Irrit. 2: Skin corrosion/irritation – Category 2	
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A	
Resp. Sens. 1: Respiratory sensitisation – Category 1	
Skin Sens. 1: Skin sensitisation – Category 1	
Carc. 2: Carcinogenicity – Category 2	
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3	
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2	
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