

Sicherheitsdatenblatt gemäß Verordnung (EG) 2015/830 Version 2.1, Datum: 24.06.2024 Vorherige Version: 2.0.; 22.07.2021 Erste Version: 30.07.2019 Druckdatum: 24.06.2024

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#### 1. **IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

Trade Name	Tankfix
Supplier	Wagner Spezialschmierstoffe GmbH & Co. KG
	Speckbrodi 8, D – 86759 Wechingen
	Tel. +49 (0)9085-96009-0
	E-mail: wagner@wagner-german-oil.com
	www.wagner-german-oil.com
Commissioning Dept.	Product Safety
	Tel. +49 9085-96009-10
Emergency telephone no. supplier	Tel. +49 (0)9085 96009-0 (8:30 - 16:30) (Deutschland)
Information Centre Specialising	+43 1 406 43 43 (Österreich)
in Symptoms of Poisoning	

#### 1.1 Application of the substance / the preparation Primers, one-pack performance coating

#### 2. HAZARDS IDENTIFICATION

#### 2.1 Classification according to Regulation (EC) No 1272/2008

# Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 3	H226: Flammable liquid and vapour.
Acute toxicity, Category 4	H332: Harmful if inhaled.
Skin irritation, Category 2	H315: Causes skin irritation.
Eye irritation, Category 2	H319: Causes serious eye irritation.
Respiratory sensitisation, Category 1	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Carcinogenicity, Category 2	H351: Suspected of causing cancer.
Specific target organ toxicity - single	
exposure, Category 3, Respiratory system	H335: May cause respiratory irritation.
Specific target organ toxicity - repeated	
exposure, Category 2	H373: May cause damage to organs through pro-longed or repeated exposure.
Aspiration hazard, Category 1	H304: May be fatal if swallowed and enters airways.
Long-term (chronic) aquatic hazard,	
Category 3	H412: Harmful to aquatic life with long lasting effects.

#### 2.2 Label elements Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms



Signal word



Danger



Hazard statements

- H226 Flammable liquid and vapour. H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- 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.

- H373 May cause damage to organs through prolonged or repeated exposure.
- H412 Harmful to aquatic life with long lasting effects

# **Precautionary statements**

# Prevention

P201 Obtain special instructions before use.

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
- P271 Use only outdoors or in a well-ventilated area.



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P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

# Response

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor. P331 Do NOT induce vomiting. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if pre-sent and easy to do. Continue rinsing.

# Storage

P405 Store locked up.

# Disposal

P501 Dispose of contents/container to an approved facility in accordance with local, regional, national and international regulations.

# Hazardous components which must be listed on the label

Isocyanic acid, polymethylenepolyphenylene ester, polymer with 1,2-ethanediamine, methyloxirane and 1,2-propanediol

#### Additional Labelling EUH204

Contains isocyanates. May produce an allergic reaction.

# 2.3 Other hazards

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

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

# 3.1 Mixtures

Chemical nature Mixture contains: Isocyanates

Chemical name	CAS-No. EC-No. INDEX-No. Registration no.	Classification	Concentration (% w/w)
Isocyanic acid, polymethylenepol-yphenylene ester, polymer with 1,2-ethanediamine, methyloxirane and 1,2-propanediol	67815-87-6	Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Resp. Sens. 1; H334 Skin Sens. 1; H317 STOT SE 3; H335 STOT RE 2; H373	>= 30 - < 50
Reaction mass of ethylbenzene and xylene	Not Assigned 905-588-0 01-2119486136-34	Flam. Liq. 3; H226 Acute Tox. 4; H332 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335 STOT RE 2; H373 Asp. Tox. 1; H304	>= 20 - < 30
Diphenylmethanediisocyanate, isomeres and homologues	9016-87-9	Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Resp. Sens. 1B; H334 Skin Sens. 1B; H317 Carc. 2; H351 STOT SE 3; H335 STOT RE 2; H373	>= 10 - < 20

Chemical name	CAS-No. EC-No. INDEX-No. Registration no.	Classification	Concentration (% w/w)
Hydrocarbons, C9, Aromatics	64742-95-6 918-668-5 01-2119455851-35	Flam. Liq. 3; H226 STOT SE 3; H336 STOT SE 3; H335 Asp. Tox. 1; H304	>= 10 - < 20



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		Aquatic Chronic 2; H411	
4,4'-methylendiphenyl diisocyanate	101-68-8 202-966-0 615-005-00-9 01-2119457014-47	Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Resp. Sens. 1; H334 Skin Sens. 1; H317 Carc. 2; H351 STOT SE 3; H335 STOT RE 2; H373	>= 1 - < 5
o-(p-isocyanatobenzyl)phenyl isocyanate	5873-54-1 227-534-9 615-005-00-9 01-2119480143-45	Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Resp. Sens. 1; H334 Skin Sens. 1; H317 Carc. 2; H351 STOT SE 3; H335 STOT RE 2; H373	>= 1 - < 5

For explanation of abbreviations see section 16.

# 4. FIRST AID MEASURES

# 4.1 Description of first aid measures

GENERAL ADVICE	In the case of accident or if you feel unwell, seek medical advice immediately. Move out of dangerous area. Take off contaminated clothing and shoes immediately. Do not leave the victim unattended. Symptoms of poisoning may appear several hours later. Show this safety data sheet to the doctor in attendance.
PROTECTION OF FIRST-AIDERS	First Aid responders should pay attention to self-protection and use the recommended protective clothing.
INHALATION	Move to fresh air. Keep patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration. Call a physician immediately.
SKIN CONTACT	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Call a physician if irritation develops or persists.
EYE CONTACT	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. If easy to do, remove contact lens, if worn. Consult a physician.
AFTER SWALLOWING	Rinse mouth with water. Do NOT induce vomiting. Call a physician immediately. Aspiration hazard if swallowed - can enter lungs and cause damage.

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

May be fatal if swallowed and enters airways. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure.

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

Treat symptomatically. Keep under medical supervision for at least 48 hours.

# 5. FIREFIGHTING MEASURES

# 5.1 Extinguishing media

# Suitable Extinguishing Media

Carbon dioxide (CO2), dry powder, alcohol-resistant foam, water spray in large fire situations, water spray jet.

# **Extinguishing Media to Avoid**

High volume water jet.

# 5.2 Special hazards arising from the substance or mixture

# Specific hazards during firefighting

Build-up of dangerous/toxic fumes possible in cases of fire/high temperature. If the temperature rises there is danger of the vessels bursting due to the high vapor pressure. Cool closed containers exposed to fire with water spray.

#### Hazardous combustion products

Hazardous decomposition products due to incomplete combustion:

Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke). Isocyanates.



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# 5.3 Advice for firefighters

# **Special Protective Equipment**

In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment. Complete suit protecting against chemicals

# **Additional Information**

Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

# 6. ACCIDENTAL RELEASE MEASURES

# 6.1 Personal precautions, protective equipment and emergency procedures

Wear personal protective equipment. Evacuate personnel to safe areas. Ensure adequate ventilation, especially in confined areas. Remove all sources of ignition. Do not smoke. Avoid contact with skin, eyes and clothing. Sweep up to prevent slipping hazard. In the case of vapour formation use a respirator with an approved filter.

# 6.2 Environmental precautions

Do not flush into surface water or sanitary sewer system. Local authorities should be advised if significant spillages cannot be contained.

# 6.3 Methods and material for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). After approximately one hour, transfer to waste container and do not seal, due to evolution of carbon dioxide. Waste must NOT be included in a tight way.

# 6.4 Reference to other sections

For personal protection see section 8. For disposal considerations see section 13.

# 7. HANDLING AND STORAGE

# 7.1 Precautions for safe handling

# Precautions for safe handling

Provide adequate information, instruction and training for operators. All processes must be supervised by specialists or authorised personnel. Keep container closed when not in use. Provide sufficient air exchange and/or exhaust in work rooms. Avoid exceeding the given occupational exposure limits (see section 8). Do not breathe vapours or spray mist. During spraying, wear suitable respiratory equipment. For personal protection see section 8.

# Precautions in case of fire and explosion

Vapours may form explosive mixtures with air. Keep away from open flames, hot surfaces and sources of ignition. Do not smoke. Take measures to prevent the build-up of electrostatic charge. Use explosion-proof equipment.

# Hygiene measures

Persons already sensitised to diisocyanates may develop allergic reactions when using this product. Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product.

# 7.2 Conditions for safe storage, including any incompatibilities

# Requirements for storage areas and containers

Store in original container. Keep container tightly closed. Keep away from heat and sources of ignition. Keep away from direct sunlight. Protect from moisture.

# Further information on storage conditions

Keep locked up or in an area accessible only to qualified or authorised persons.

# Advice on common storage

Keep away from food and drink.

# 7.3 Specific end use(s)

No data available.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters



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# Occupational Exposure Limits

Components	CAS-No.	Value type (form of exposure)	Control parameters	Basis
Diphenylme- thanediisocyanate, isomeres and homologues	9016-87-9	TWA	0.02 mg/m <sup>3</sup> (NCO)	GB EH40
Further information	sensitisers) c other mechar substance, sc range in seve become hype hyper-respon substances w responsivene classified as a publication As asthma., Whe asthma shoul standards of cause occupa practicable. A when risk ma exposed or lia should be app level of surve has been ass shown in Tab	hat can cause occupational asthma ( an induce a state of specific airway h iism. Once the airways have become ometimes even in tiny quantities, may rity from a runny nose to asthma. No r-responsive and it is impossible to i sive. Substances that can cause occ /hich may trigger the symptoms of as ss, but which do not include the dise asthmagens or respiratory sensitiser sthmagen? Critical assessments of the rever it is reasonably practicable, ex d be pre-vented. Where this is not pr control to prevent workers from becc ational asthma, COSHH requires that activities giving rise to short-term pea nagement is being considered. Heal able to be exposed to a substance w propriate consultation with an occupat illance., Capable of causing occupat igned only to those substances whic le 1. It should be remembered that o	hyper-responsiveness via an ir e hyper-responsive, further exp y cause respiratory symptoms of all workers who are exposed dentify in advance those who cupational asthma should be d sthma in people with pre-existi ase themselves. The latter su s. Further information can be f he evidence for agents implica- gosure to substances that can ossible, the primary aim is to a ming hyper-responsive. For sit t expo-sure be reduced to as I ak concentrations should recei- th surveillance is appropriate f hich may cause occupational ational health professional over ional asthma., The 'Sen' notat th may cause occupational ast ther substances not in these t	mmunological irritant or posure to the . These symptoms can d to a sensitiser will are likely to become istinguished from ng airway hyper- bstances are not oound in the HSE ated in occupational n cause occupational apply adequate ubstances that can ow as is reasonably ve particular attention or all employees asthma and there r the degree of risk and ion in the list of WELs hma in the categories ables may cause
Further information	occupational asthma. HSE's asthma web pages (www.hse.gov.uk/asthma) provide further informatic     STEL   0.07 mg/m³ (NCO)   GB EH40     Substances that can cause occupational asthma (also known as asthmagens and respiratory sensitisers) can induce a state of specific airway hyper-responsive, further exposure to the substance, sometimes even in tiny quantities, may cause respiratory symptoms. These symptoms carange in severity from a runny nose to asthma. Not all workers who are exposed to a sensitiser will become hyper-responsive. Substances that can cause occupational asthma should be distinguished from substances which may trigger the symptoms of asthma in people with pre-existing airway hyper-responsiveness, but which do not include the disease themselves. The latter substances are not classified as asthmagens or respiratory sensitisers. Further information can be found in the HSE publication Asthmagen? Critical assessments of the evidence for agents implicated in occupational asthma. Wherever it is reasonably practicable, exposure to substances that can cause occupational asthma. COSHH requires that expo-sure be reduced to as low as is reasonably practicable. Activities giving rise to short-term peak concentrations should receive particular attention when risk management is being considered. Health surveillance is appropriate for all employees exposed or liable to be exposed to a substances which may cause occupational asthma and there should be parevented consultation with an occupational health professional over the degree of risk a level of surveillance. Capable of causing occupational asthma. The 'Sen' notation in the list of WEL has been assigned only to those substances which may cause occupational asthma in the categorie shown in Table 1. It should be remembered that other substances not in these tables may cause occupational asthma. HSE's asthma web pages (www.hse.gov.uk/asthma) prov			nd respiratory mmunological irritant or posure to the . These symptoms can d to a sensitiser will are likely to become istinguished from ng airway hyper- bstances are not oound in the HSE ated in occupational n cause occupational apply adequate ubstances that can ow as is reasonably ve particular attention or all employees asthma and there ir the degree of risk and ion in the list of WELs hma in the categories ables may cause

Components	CAS-No.	Value type (form of exposure)	Control parameters	Basis
4,4'-methylenediphenyl	101-68-8	TWA	0.02 mg/m <sup>3</sup> (NCO)	GB EH40
diisocyanate				
Further information	sensitisers) other mecha substance, s range in sev become hyp hyper-respo substances responsiven classified as	that can cause occupational asthma can induce a state of specific airway nism. Once the airways have becom cometimes even in tiny quantities, ma erity from a runny nose to asthma. N er-responsive and it is impossible to nsive. Substances that can cause oc which may trigger the symptoms of a ess, but which do not include the dis asthmagens or respiratory sensitise Asthmagen? Critical assessments of	hyper-responsiveness via the hyper-responsive, furth ay cause respiratory symp lot all workers who are ex- identify in advance those coupational asthma should asthma in people with pre- ease themselves. The lat ars. Further information ca	a an immunological irritant or her exposure to the btoms. These symptoms can aposed to a sensitiser will who are likely to become d be distinguished from -existing airway hyper- ter substances are not in be found in the HSE



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	asthma., Wherever it is reasonably practicable, exposure to substances that can cause occupation	nal			
	asthma should be pre-vented. Where this is not possible, the primary aim is to apply adequate				
	standards of control to prevent workers from becoming hyper-responsive. For substances that car				
	cause occupational asthma, COSHH requires that expo-sure be reduced to as low as is reasonably				
	practicable. Activities giving rise to short-term peak concentrations should receive particular attent				
	when risk management is being considered. Health surveillance is appropriate for all employees				
	exposed or liable to be exposed to a substance which may cause occupational asthma and there				
	should be appropriate consultation with an occupational health professional over the degree of risl	k and			
	level of surveillance., Capable of causing occupational asthma., The 'Sen' notation in the list of WI	ELs			
	has been assigned only to those substances which may cause occupational asthma in the catego	ories			
	shown in Table 1. It should be remembered that other substances not in these tables may cause				
	occupational asthma. HSE's asthma web pages (www.hse.gov.uk/asthma) provide further informa	ation.			
	STEL 0.07 mg/m <sup>3</sup> (NCO) GB EH40				
Further information	Substances that can cause occupational asthma (also known as asthmagens and respiratory				
	sensitisers) can induce a state of specific airway hyper-responsiveness via an immunological irrita	ant or			
	other mechanism. Once the airways have become hyper-responsive, further exposure to the				
	substance, sometimes even in tiny quantities, may cause respiratory symptoms. These symptoms	s can			
	range in severity from a runny nose to asthma. Not all workers who are exposed to a sensitiser wi				
	become hyper-responsive and it is im-possible to identify in advance those who are likely to become				
	hyper-responsive. Substances that can cause occupational asthma should be dis-tinguished from				
	substances which may trigger the symptoms of asthma in people with pre-existing airway hyper-				
	responsiveness, but which do not include the disease themselves. The latter substances are not				
	classified as asthmagens or respiratory sensitisers. Further information can be found in the HSE				
	publication Asthmagen? Critical assessments of the evidence for agents implicated in occupational				
	asthma., Wherever it is reasonably practicable, exposure to substances that can cause occupation				
	asthma should be pre-vented. Where this is not possible, the primary aim is to apply adequate	Παι			
		standards of control to prevent workers from becoming hyper-responsive. For substances that can			
	cause occupational asthma, COSHH requires that expo-sure be reduced to as low as is reasonably				
	practicable. Activities giving rise to short-term peak concentrations should receive particular attention				
	when risk management is being considered. Health surveillance is appropriate for all employees				
	exposed or liable to be exposed to a substance which may cause occupational asthma and there				
	should be appropriate consultation with an occupational health professional over the degree of risl				
	level of surveillance., Capable of causing occupational asthma., The 'Sen' notation in the list of WI				
	has been assigned only to those substances which may cause occupational asthma in the catego	ories			
	shown in Table 1. It should be remembered that other substances not in these tables may cause				
	occupational asthma. HSE's asthma web pages (www.hse.gov.uk/asthma) provide further informa	ation.			

Components	CAS-No.	Value type (form of exposure)	Control parameters	Basis
o-(p-isocyanatoben-zyl)phenyl isocya-nate	5873-54-1	TWA	0.02 mg/m <sup>3</sup> (NCO)	GB EH40
Further information	sensitisers) c other mecha substance, s range in seve become hype hyper-respor substances v responsivene classified as publication A asthma., Wh asthma shou standards of cause occup practicable. <i>J</i> when risk ma exposed or li should be ap level of surve has been as shown in Tat occupational	that can cause occupational asthma can induce a state of specific airway nism. Once the airways have becom ometimes even in tiny quantities, ma erity from a runny nose to asthma. N er-responsive and it is impossible to nsive. Substances that can cause oc which may trigger the symptoms of a ess, but which do not include the disd asthmagens or respiratory sensitise sthmagen? Critical assessments of erever it is reasonably practicable, e ld be pre-vented. Where this is not p control to prevent workers from beca atomal asthma, COSHH requires tha Activities giving rise to short-term per anagement is being considered. Hea able to be exposed to a substance w propriate consultation with an occup signed only to those substances whic ole 1. It should be remembered that of asthma. HSE's asthma web pages ( STEL	hyper-responsiveness via e hyper-responsive, furth ay cause respiratory symp ot all workers who are ex identify in advance those cupational asthma should sthma in people with pre- ease themselves. The latt rs. Further information ca the evidence for agents in xposure to substances th possible, the primary aim poming hyper-responsive. at expo-sure be reduced t ak concentrations should lth surveillance is appropi- which may cause occupation ational health professiona- tional asthma., The 'Sen' ch may cause occupation other substances not in th (www.hse.gov.uk/asthma) 0.07 mg/m <sup>3</sup> (NCO)	a an immunological irritant or er exposure to the btoms. These symptoms can posed to a sensitiser will who are likely to become I be distinguished from existing airway hyper- ter substances are not n be found in the HSE nplicated in occupational at can cause occupational at can cause occupational at can cause occupational as to apply adequate For substances that can o as low as is reasonably receive particular attention riate for all employees ional asthma and there al over the degree of risk and notation in the list of WELs al asthma in the categories nese tables may cause provide further information. GB EH40
Further information	sensitisers) o	that can cause occupational asthma can induce a state of specific airway	hyper-responsiveness via	a an immunological irritant or
	other mechanism. Once the airways have become hyper-responsive, further exposure to the substance, sometimes even in tiny quantities, may cause respiratory symptoms. These symptoms can			
	range in seve	erity from a runny nose to asthma. N er-responsive and it is impossible to	ot all workers who are ex	posed to a sensitiser will



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hyper-responsive. Substances that can cause occupational asthma should be dis-tinguished fr substances which may trigger the symptoms of asthma in people with pre-existing airway hyper	Version. 50.07.2015	Didekdatdin. 24.00.2024	Gene / Von
responsiveness, but which do not include the disease themselves. The latter substances are not classified as asthmagens or respiratory sensitisers. Further information can be found in the HS publication Asthmagen? Critical assessments of the evidence for agents implicated in occupation asthma., Wherever it is reasonably practicable, exposure to substances that can cause occupational asthma should be pre-vented. Where this is not possible, the primary aim is to apply adequate standards of control to prevent workers from becoming hyper-responsive. For substances that cause occupational asthma, COSHH requires that expo-sure be reduced to as low as is reason practicable. Activities giving rise to short-term peak concentrations should receive particular att when risk management is being considered. Health surveillance is appropriate for all employee exposed or liable to be exposed to a substance which may cause occupational asthma and the should be appropriate consultation with an occupational asthma., The 'Sen' notation in the list of has been assigned only to those substances which may cause occu-pational asthma in the cat shown in Table 1. It should be remembered that other substances not in these tables may cause occupational asthma. HSE's asthma web pages (www.hse.gov.uk/asthma) provide further information asthma in the cat shown in Table 1.		substances which may trigger the symptoms of asthma in people wit responsiveness, but which do not include the disease themselves. T classified as asthmagens or respiratory sensitisers. Further informati publication Asthmagen? Critical assessments of the evidence for ag asthma., Wherever it is reasonably practicable, exposure to substan- asthma should be pre-vented. Where this is not possible, the primary standards of control to prevent workers from becoming hyper-respor cause occupational asthma, COSHH requires that expo-sure be redu- practicable. Activities giving rise to short-term peak concentrations is when risk management is being considered. Health surveillance is a exposed or liable to be exposed to a substance which may cause oc should be appropriate consultation with an occupational health profe level of surveillance., Capable of causing occupational asthma., The has been assigned only to those substances which may cause occu- shown in Table 1. It should be remembered that other substances no	th pre-existing airway hyper- he latter substances are not ion can be found in the HSE ents implicated in occupational ces that can cause occupational y aim is to apply adequate sive. For substances that can uced to as low as is reasonably hould receive particular attention ppropriate for all employees scupational asthma and there issional over the degree of risk ar 'Sen' notation in the list of WELs -pational asthma in the categories of in these tables may cause

**Biological occupational exposure limits** 

Substance name	CAS-No.	Control parameters	Sampling time	Basis
Diphenylmethanediisocy- anate, isomeres and homologues	9016-87-9	isocyanate-derived diamine (Isocya- nates): 1 μmol/mol creatinine (Urine)	At the end of the period of exposure	GB EH40 BAT
4,4'-methylenediphenyl diisocyanate	101-68-8	urinary diamine (Isocyanates): 1 µmol/mol creati-nine (Urine)	Post task	GB EH40 BAT
o-(p- isocyanatobenzyl)phenyl isocyanate	5873-54-1	isocyanate-derived diamine (Isocya- nates): 1 μmol/mol creatinine (Urine)	At the end of the period of exposure	GB EH40 BAT

# Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006

Substance name	End use	Exposure routes	Potential health effects	Value
4,4'-methylenediphenyl diisocyanate	Workers	Inhalation	Long-term local effects	0.05 mg/m³
	Workers	Inhalation	Acute local effects	0.1 mg/m <sup>3</sup>
	Consumers	Inhalation	Long-term local effects	0.025 mg/m <sup>3</sup>
	Consumers	Inhalation	Acute local effects	0.05 mg/m <sup>3</sup>
o-(p-isocyanatobenzyl)phenyl isocyanate	Workers	Inhalation	Long-term local effects	0.05 mg/m <sup>3</sup>
	Workers	Inhalation	Acute local effects	0.1 mg/m <sup>3</sup>
	Consumers	Inhalation	Long-term local effects	0.025 mg/m <sup>3</sup>
	Consumers	Inhalation	Acute local effects	0.05 mg/m <sup>3</sup>

# Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006

Substance name	Environmental Compartment	Value	
4,4'-methylenediphenyl diisocya-nate	Fresh water	1 mg/l	
	Marine water	0.1 mg/l	
	Sewage treatment plant	1 mg/l	
	Soil	1 mg/kg	
	Intermittent use/release	10 mg/l	
o-(p-isocyanatobenzyl)phenyl isocyanate	Fresh water	1 mg/l	
	Marine water	0.1 mg/l	
	Sewage treatment plant	1 mg/l	
	Soil	1 mg/kg	
	Intermittent use/release	10 mg/l	

#### 8.2 Exposure controls

Personal protection equipment

**Respiratory Protection** 

In order to avoid inhalation of spray-mist and sanding dust, all spraying and sanding must be done wearing adequate respirator. Apply technical measures to comply with the occupational exposure limits. Self-contained breathing apparatus (EN 133). Filter type: Combined particulates and organic vapour type (A-P).



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Hand Protection Material: Fluorinated rubber. Break through time: > 480 min. Glove thickness: >= 0   Directive: DIN EN 374. Protective index: Class 6. Remarks: Gloves should be discarded and replaced if there is any indication of dependence of the strength of material are values! The exact break through time/strength of material has to be obtained from the protective glove. The choice of an appropriate glove does not only depend on it		n of degradation or rial are standard d from the producer of nd on its material but
Eve Protection	also on other quality features and is different from one producer to the other Safety glasses with side-shields conforming to EN166	
Skin and Body Protection	Please wear suitable protective clothing, e.g. made of cotton or heat-resista Long sleeved clothing.	nt synthetic fibres.
Protective measures	Ensure that eye flushing systems and safety showers are located close to the	ne working place.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 Information on basic physical and chemical properties

Form Colour Odour pH-value Melting point / Melting range Initial boiling point / boiling range Flash point Explosion limits lower upper Vapour pressure at 20 °C Density at 20 °C Solubility in/Miscitility with water	Liquid Brown Aromatic Not determined > 136 °C > 23 °C 0.7 Vol % 7 Vol % > 8 hPa 1 g/cm <sup>3</sup> Immiscible
Partition coefficient (n- octanol/water)	Not determined
Viscositiy Dynamic Kinematic at 40 °C	Not determined < 20.5 mm <sup>2</sup> /s
Explosive properties	Not explosive. Not explosive. In use, may form flammable/explosive vapour-air mixture.

# 9.2 Other information

No data available.

# 10. STABILITY AND REACTIVITY

# 10.1 Reactivity

No decomposition if used as directed.

# 10.2 Chemical stability

No decomposition if stored and applied as directed.

# 10.3 Possibility of hazardous reactions

Amines and alcohols cause exothermic reactions. Mixture reacts slowly with water resulting in evolution of  $CO_2$ . Evolution of  $CO_2$  in closed containers causes overpressure and produces a risk of bursting. Vapours may form explosive mixture with air.

# 10.4 Conditions to avoid

Heat, flames and sparks. Extremes of temperature and direct sunlight.

# 10.5 Incompatible materials

Amines, alcohols.

# 10.6 Hazardous decomposition products

Build-up of dangerous/toxic fumes possible in cases of fire/high temperature.

# 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects



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# Acute toxicity

Harmful if inhaled.

# Product

Acute inhalation toxicity	Acute toxicity estimate: 2.0 mg/l Exposure time: 4 h
	Test atmosphere: dust/mist
	Method: Calculation method
Acute dermal toxicity	Acute toxicity estimate: > 2,000 mg/kg
	Method: Calculation method

# Components

Acute inhalation toxicity	Acute toxicity estimate: 1.5 mg/l
·····	Exposure time: 4 h
	Test atmosphere: dust/mist
	Method: Expert judgement
Acute dermal toxicity	LD50 Dermal (Rabbit): > 9,400 mg/kg
	Method: OECD Test Guideline 402
Reaction mass of ethylbenzene and xyl	ene
Acute oral toxicity	LD50 Oral (Rat): 3,523 - 4,000 mg/kg
	Method: EC Directive 92/69/EEC B.1 Acute Toxicity (Oral)
Acute inhalation toxicity	LC50 (Rat, male): 6350 - 6700 ppm
	Exposure time: 4 h
	Test atmosphere: vapour
	Method: Regulation (EC) No. 440/2008, Annex, B.2
Acute dermal toxicity	LD50 Dermal (Rabbit): 12,126 mg/kg

Diphenylmethanediisocyanate, isomeres and homologues		
Acute oral toxicity	LD50 Oral (Rat): 49,000 mg/kg	
Acute inhalation toxicity	LC50 (Rat): 0.493 mg/l	
-	Exposure time: 4 h	
	Test atmosphere: dust/mist	
	Method: OECD Test Guideline 403	
	Assessment: The substance/mixture is not toxic on inhalation as defined by	
	dangerous goods regulations.	
Acute dermal toxicity	LD50 Dermal (Rabbit): > 9,400 mg/kg	
·	Method: OECD Test Guideline 402	
Hydrocarbons, C9, Aromatics		
Acute oral toxicity	LD50 Oral (Rat, female): ca. 3,492 mg/kg	
Acute inhalation toxicity	LC50 (Rat): > 6.193 mg/l	
,	Exposure time: 4 h	
	Test atmosphere: vapour	
	Method: OECD Test Guideline 403	
	Assessment: The substance or mixture has no acute inhala-tion toxicity	
Acute dermal toxicity	LD50 Dermal (Rabbit): > 3,160 mg/kg	
	Method: OECD Test Guideline 402	
4,4'-methylenediphenyl diisocyanate		
Acute oral toxicity	LD50 Oral (Rat): > 2,000 mg/kg	
Acute inhalation toxicity	Acute toxicity estimate: 1.5 mg/l	
	Exposure time: 4 h	
	Test atmosphere: dust/mist	
	Method: Expert judgement	
	LC50 (Rat): 0.368 mg/l	
	Exposure time: 4 h	
	Test atmosphere: dust/mist	
	Method: OECD Test Guideline 403	
Acute dermal toxicity	LD50 Dermal (Rabbit): > 9,400 mg/kg	
	Method: OECD Test Guideline 402	
o-(p-isocyanatobenzyl)phenyl isocyanat	e	
Acute oral toxicity	LD50 Oral (Rat): > 2,000 mg/kg	
Acute inhalation toxicity	Acute toxicity estimate: 1.5 mg/l	



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	Exposure time: 4 h Test atmosphere: dust/mist Method: Expert judgement	
	LC50 (Rat): 0.31 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403	
Acute dermal toxicity	LD50 Dermal (Rabbit): > 9,400 mg/kg Method: OECD Test Guideline 402	

# Skin corrosion/irritation

Causes skin irritation.

# Components

Isocyanic acid, polymethylenepolyphenylene ester, polymer with 1,2-ethanediamine, methyloxirane and 1,2-propanediol		
Result	Skin irritation	
Depation many of other honzone and when		
Reaction mass of ethylbenzene and xyler		
Result	Result Skin irritation	
Diphenylmethanediisocyanate, isomeres and homologues		
Species	Rabbit	
Method	OECD Test Guideline 404	
Result	Skin irritation	
Hydrocarbons, C9, Aromatics		
Result	Repeated exposure may cause skin dryness or cracking	

# Serious eye damage/eye irritation

Causes serious eye irritation.

# Components

Isocyanic acid, polymethylenepolyphenylene ester, polymer with 1,2-ethanediamine, methyloxirane and 1,2-propanediol		
Result	Moderate eye irritation	
Reaction mass of ethylbenzene and xylene		
Result	Moderate eye irritation	
Diphenylmethanediisocyanate, isomeres and homologues		
Result	Moderate eye irritation	

# Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction

# **Respiratory sensitisation**

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

Isocyanic acid, polymethylenepolyphenylene ester, polymer with 1,2-ethanediamine, methyloxirane and 1,2-propanediol		
Test Type	Local lymph node assay (LLNA)	
Species	Mouse	
Assessment	May cause sensitisation by skin contact.	
Method	OECD Test Guideline 429	
Result	positive	
Species	Guinea pig	
Assessment	May cause sensitisation by inhalation.	
Result	positive	
Diphenylmethanediisocyanate, isomeres and homologues		
Test types	Local lymph node assay (LLNA)	
Exposure routes	Dermal	
Species	Mouse	
Assessment	The product is a skin sensitiser, sub-category 1B.	
Method	OECD Test Guideline 429	
Result	positive	
Exposre routes	inhalation (dust/mist/fume)	
Species	Rat	
Assessment	The product is a respiratory sensitiser, sub-category 1B.	
Result	positive	



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# Germ cell mutagenicity

Not classified based on available information.

#### Components

# Hydrocarbons, C9, Aromatics

ſ	Germ cell mutagenicity- Assessment	Classified based on benzene content < 0.1% (Regulation (EC) 1272/2008,
		Annex VI, Part 3, Note P)

# Carcinogenicity

Suspected of causing cancer.

#### Components

Diphenylmethanediisocyanate, isomeres and homologues	
Carcinogenicity - Assessment	Classified based on benzene content < 0.1% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note P)
Hydrocarbons, C9, Aromatics	
Carcinogenicity - Assessment	Classified based on benzene content < 0.1% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note P)

# **Reproductive toxicity**

Not classified based on available information.

#### STOT - single exposure

May cause respiratory irritation. **Components** 

Assessment	May cause respiratory irritation.
Reaction mass of ethylbenzene and xylene	
Assessment	May cause respiratory irritation.
Diphenylmethanediisocyanate, isomeres and homologues	
Assessment	May cause respiratory irritation.
Hydrocarbons, C9, Aromatics	
Assessment	May cause respiratory irritation. May cause drowsiness or dizziness.

# STOT - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

# Components

Isocyanic acid, polymethylenepolyphenylene ester, polymer with 1,2-ethanediamine, methyloxirane and 1,2-propanediol	
Exposure routes	Inhalation
Toront Ormana	Descientary and a
Target Organs	Respiratory organs
Assessment	May cause damage to organs through prolonged or repeated exposure.
Reaction mass of ethylbenzene and xylene	
Assessment	May cause damage to organs through prolonged or repeated exposure.
Diphenylmethanediisocyanate, isomeres and homologues	
Exposure routes	Inhalation
Target Organs	Lungs
Assessment	May cause damage to organs through prolonged or repeated exposure.

# Aspiration toxicity

May be fatal if swallowed and enters airways.

#### Components

**Reaction mass of ethylbenzene and xylene** May be fatal if swallowed and enters airways.



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# Hydrocarbons, C9, Aromatics

May be fatal if swallowed and enters airways.

# 12. ECOLOGICAL INFORMATION

# 12.1 Toxicity

#### Components

Isocyanic acid, polymethylenepolyphenylene ester, polymer with 1,2-ethanediamine, methyloxirane and 1,2-propanediol		
Toxicity to daphnia and other aquatic	NOEC: > 10 mg/l	
invertebrates (Chronic toxicity)	Exposure time: 21 d	
	Species: Daphnia magna (Water flea)	
Reaction mass of ethylbenzene and x	ylene	
Toxicity to fish	LC50 (Fish): 2.6 mg/l	
-	Exposure time: 96 h	
	Method: OECD Test Guideline 203	
Toxicity to daphnia and other aquatic	LC50 (Daphnia dubia (water flea)): 1 mg/l	
invertebrates	Exposure time: 24 h	
	Method: OECD Test Guideline 202	
	EC50 (Daphnia dubia (water flea)): 165 mg/l	
	Exposure time: 24 h	

Toxicity to algae	EC50 (algae): 2.2 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
	IC50 (algae): 1 - 10 mg/l Exposure time: 72 h
Toxicity to microorganisms	EC50 (Bacteria): 1 - 10 mg/l

# **Ecotoxicology Assessment**

Chronic aquatic toxicity

This product has no known ecotoxicological effects.

Diphenylmethanediisocyanate, isomeres and homologues		
Toxicity to fish	LC0 (Fish): > 1,000 mg/l	
·	Exposure time: 96 h	
Toxicity to daphnia and other aquatic	EC0 (Daphnia (water flea)): > 500 mg/l	
invertebrates	Exposure time: 24 h	
Toxicity to algae	EC0 (Scenedesmus subspicatus): 1,640 mg/l	
	Exposure time: 72 h	
	Method: OECD Test Guideline 201	
Toxicity to microorganisms	EC50 (Bacteria): > 100 mg/l	
	Exposure time: 3 h	
	Method: OECD Test Guideline 209	
Toxicity to daphnia and other aquatic	NOEC: > 10 mg/l	
invertebrates (Chron-ic toxicity)	Exposure time: 21 d	
· · · · · ·	Species: Daphnia magna (Water flea)	
Hydrocarbons, C9, Aromatics		
Toxicity to fish	LL50 (Oncorhynchus mykiss (rainbow trout)): 9.2 mg/l	
-	Exposure time: 96 h	
	Method: OECD Test Guideline 203	
Toxicity to daphnia and other aquatic	EL50 (Daphnia magna (Water flea)): 3.2 mg/l	
invertebrates	End point: Immobilization	
	Exposure time: 48 h	
	Method: OECD Test Guideline 202	
Toxicity to algae	NOELR (Pseudokirchneriella subcapitata (green algae)): 1 mg/l	
	Exposure time: 72 h	
	Method: OECD Test Guideline 201	
Toxicity to fish (Chronic toxicity)	NOELR: 1.228 mg/l	
	Exposure time: 28 d	
	Species: Oncorhynchus mykiss (rainbow trout)	
Toxicity to daphnia and other aquatic	NOELR: 2.144 mg/l	
invertebrates (Chron-ic toxicity)	Exposure time: 21 d	



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Seite 13 von 17 Species: Daphnia magna (Water flea) 4,4'-methylenediphenyl diisocyanate LC0 (Oryzias latipes (Orange-red killifish)): > 3,000 mg/l Toxicity to fish End point: mortality Exposure time: 96 h Toxicity to daphnia and other aquatic LC50 (Daphnia magna (Water flea)): 1,000 mg/l invertebrates Exposure time: 48 h Method: OECD Test Guideline 202 Toxicity to algae EC50 (Desmodesmus subspicatus (green algae)): 1,640 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Toxicity to microorganisms EC50 (Bacteria): > 100 mg/l Exposure time: 3 h Method: OECD Test Guideline 209 Toxicity to daphnia and other aquatic NOEC: 10 mg/l invertebrates (Chron-ic toxicity) Exposure time: 21 d Species: Daphnia magna (Water flea)

o-(p-isocyanatobenzyl)phenyl isocyanate		
Toxicity to fish	LC50 (Danio rerio (zebra fish)): > 1,000 mg/l	
-	Exposure time: 96 h	
	Method: OECD Test Guideline 203	
Toxicity to daphnia and other aquatic	EC50 (Daphnia magna (Water flea)): > 1,000 mg/l	
invertebrates	Exposure time: 24 h	
	Method: OECD Test Guideline 202	
Toxicity to algae	EC50 (Desmodesmus subspicatus (green algae)): > 1,640 mg/l	
	Exposure time: 72 h	
	Method: OECD Test Guideline 201	
Toxicity to daphnia and other aquatic	NOEC: > 10 mg/l	
invertebrates (Chron-ic toxicity)	Exposure time: 21 d	
	Species: Daphnia magna (Water flea)	
	Method: OECD Test Guideline 211	

# 12.2 Persistence and degradability

# Components

Diphenylmethanedi	Diphenylmethanediisocyanate, isomeres and homologues		
Biodegradability	Result: According to the results of tests of biodegradability this product is not readily biodegradable. Biodegradation: < 10 % Exposure time: 28 d		
Hydrocarbons, C9,	Aromatics		
Biodegradability	Result: Readily biodegradable. Biodegradation: 78 % Exposure time: 28 d Method: OECD Test Guideline 301F		
4,4'-methylenediph	4.4'-methylenediphenyl diisocyanate		
Biodegradability	Biodegradation: 0 % Exposure time: 28 d Method: OECD Test Guideline 302C		
o-(p-isocyanatobenzyl)phenyl isocyanate			
Biodegradability	Biodegradation: 0 % Exposure time: 28 d Method: OECD Test Guideline 302C		

# 12.3 Bioaccumulative potential

Reaction mass of ethylbenzene and	xylene
Partition coefficient: n-octanol/water	log Pow: 3.2 (20 °C)
Diphenylmethanediisocyanate, isom	eres and homologues
Bioaccumulation	Species: Cyprinus carpio (Carp)
	Exposure time: 42 d
	Concentration: 0.2 mg/l
	Bioconcentration factor (BCF): < 14
	Method: OECD Test Guideline 305C



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Accumulation in aquatic organisms is unlikely.	
log Pow: 4.51 (22 °C)	
pH: 7	
9	
Bioconcentration factor (BCF): 200	
Method: OECD Test Guideline 305	
log Pow: 4.51 (20 °C)	
anate	
Bioaccumulation > 60 % (-) (OECD 301 F)	
Species: Cyprinus carpio (Carp)	
Bioconcentration factor (BCF): 92 - 200	
Method: OECD Test Guideline 305	
log Pow: 4.51 (22 °C)	
pH: 7	
	Druckdatum: 24.06.2024   Accumulation in aquatic organisms is unlikely.   log Pow: 4.51 (22 °C)   pH: 7   Bioconcentration factor (BCF): 200   Method: OECD Test Guideline 305   log Pow: 4.51 (20 °C)   anate   > 60 % (-) (OECD 301 F)   Species: Cyprinus carpio (Carp)   Bioconcentration factor (BCF): 92 - 200   Method: OECD Test Guideline 305   log Pow: 4.51 (22 °C)

# 12.4 Mobility in soil

No data available.

# 12.5 Results of OBT and vPvB assessment

# Product

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

#### Components

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

# 12.7 Other adverse effects

**Product** Additional ecological information No data available

# 13. DISPOSAL CONSIDERATIONS

# 13.1. Waste treatment methods

#### Product

Do not dispose of with domestic refuse. Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point. Dispose of in accordance with local regulations. Dispose of wastes in an approved waste disposal facility. Do not dispose of together with household waste. Send to a licensed waste management company. It must undergo special treatment, e.g. at suitable disposal site, to comply with local regulations.

#### **Contaminated packaging**

Empty containers should be taken to an approved waste handling site for recycling or disposal. Store containers and offer for recycling of material when in accordance with the local regulations. Packaging that is not properly emptied must be disposed of as the unused product. Dispose of in accordance with local regulations.

#### Waste Code

The following Waste Codes are only suggestions:

08 01 11, waste paint and varnish containing organic solvents or other hazardous substances.



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# 14. TRANSPORT INFORMATION

# 14.1 UN number

ADN	UN 1993
ADR	UN 1993
RID	UN 1993
IMDG	UN 1993
IATA	UN 1993

# 14.2 UN proper shipping name

ADN	FLAMMABLE LIQUID, N.O.S.
ADR	(xylene, Hydrocarbons, C9, Aromatics) FLAMMABLE LIQUID, N.O.S.
	(xylene, Hydrocarbons, C9, Aromatics)
RID	FLAMMABLE LIQUID, N.O.S.
	(xylene, Hydrocarbons, C9, Aromatics)
IMDG	FLAMMABLE LIQUID, N.O.S.
	(xylene, Hydrocarbons, C9, Aromatics)
IATA	FLAMMABLE LIQUID, N.O.S.
	(xylene, Hydrocarbons, C9, Aromatics)

# 14.3 Transport hazard class(es)

ADN	3
ADR	3
RID	3
IMDG	3
IATA	3

# 14.4 Packing group

4	ADN Packing group Classification code Hazard Identification Number Labels	III F1 30 3
	ADR Packing group Classification code Hazard Identification Number Labels Tunnel Restriction Code	III F1 30 3 (D/E)
	<b>RID</b> Packing group Classification code Hazard Identification Number Labels	III F1 30 3
	IMDG Packing group Labels EmS Code	III 3 F-E, <u>S-E</u>
	IATA (Cargo) Packing instruction (cargo aircraft) Packing instruction (LQ) Packing group Labels	366 Y344 III Class 3 – Flammable liquids
	IATA (Passenger) Packing instruction (passenger aircraft) Packing instruction (LQ) Packing group Labels	355 Y344 III Class 3 – Flammable liquids
5	Environmontal bazarda	

# 14.5 Environmental hazards

#### ADN

Environmentally hazardous

no



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ADR		
Environmentally hazardous	no	
RID		
Environmentally hazardous	no	
IMDG		
Marine pollutant	no	
14.6 Special precautions for user		

# 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

# **14.7** Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable for product as supplied.

Not applicable for product as supplied

# 15. REGULATORY INFORMATION

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

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59)	Not applicable.
REACH - List of substances subject to authorisation (Annex XIV)	Not applicable.
Regulation (EC) No 1005/2009 on substances that de-plete the ozone layer	Not applicable.
Regulation (EC) No 850/2004 on persistent organic pol-lutants	Not applicable.
REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)	Conditions of restriction for the following entries should be considered: Number on list 3
	4,4'-methylenediphenyl diisocyanate (Number on list 56) o-(p-isocyanatobenzyl)phenyl isocy-anate (Number on list 56)

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

P5c	FLAMMABLE LIQUIDS
34	Petroleum products: (a) gasolines and naphthas, (b) kerosenes (including jet fuels), (c) gas oils (including diesel fuels, home heating oils and gas oil blending streams),(d) heavy fuel oils (e) alternative fuels serving the same purposes and with similar properties as regards flammability and environ-mental hazards as the
	products referred to in points (a) to (d)
Volatile organic compounds	Directive 2004/42/EC
	Volatile organic compounds (VOC) content: <= 441 g/l VOC content for the product in a ready to use condition.

# Other regulations

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable. Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

# 15.2 Chemical safety assessment

A chemical safety assessment according to (EC) regulation 1907/2006 (REACH) has not been carried out for this product.

# 16. OTHER INFORMATION

# Full text of H-Statements

H226 Flammable liquid and vapour. H304 May be fatal if swallowed and enters airways. H312 Harmful in contact with skin. H315 Causes skin irritation. 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.
- H336 May cause drowsiness or dizziness.
- H351 Suspected of causing cancer.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H373 May cause damage to organs through prolonged or repeated exposure if inhaled.
- H411 Toxic to aquatic life with long lasting effects.

# Full text of other abbreviations

Acute Tox. - Acute toxicity Aquatic Chronic - Long-term (chronic) aquatic hazard Asp. Tox. - Aspiration hazard Carc. - Carcinogenicity Eye Irrit. - Eye irritation Flam. Liq. - Flammable liquids Resp. Sens. - Respiratory sensitisation Skin Irrit. - Skin irritation Skin sens. - Skin sensitisation STOT RE - Specific target organ toxicity - repeated exposure STOT SE - Specific target organ toxicity - single exposure

#### Abbreviations and acronyms

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road AICS - Australian Inventory of Chemical Substances ASTM - American Society for the Testing of Materials bw - Body weight CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008 CMR - Carcinogen, Mutagen or Reproductive Toxicant DIN - Standard of the German Institute for Standardisation DSL - Domestic Substances List (Canada) ECHA - European Chemicals Agency EC-Number - European Community number ECx - Concentration associated with x% response ELx - Loading rate associated with x% response EmS - Emergency Schedule ENCS - Existing and New Chemical Substances (Japan ErCx - Concentration associated with x% growth rate response GHS - Globally Harmonized System GLP - Good Laboratory Practice IARC - International Agency for Research on Cancer IATA - International Air Transport Association IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk IC50 - Half maximal inhibitory concentration ICAO - International Civil Aviation Organization IECSC - Inventory of Existing Chemical Substances in China IMDG - International Maritime Dangerous Goods IMO - International Maritime Organization ISHL - Industrial Safety and Health Law (Japan) ISO - International Organisation for Standardization KECI - Korea Existing Chemicals Inventory LC50 - Lethal Concentration to 50 % of a test population LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose) MARPOL - International Convention for the Prevention of Pollution from Ships n.o.s. - Not Otherwise Specified NO(A)EC - No Observed (Adverse) Effect Concentration NO(A)EL - No Observed (Adverse) Effect Level NOELR - No Observable Effect Loading Rate NZIoC - New Zealand Inventory of Chemicals OECD - Organization for Economic Co-operation and Development OPPTS - Office of Chemical Safety and Pollution Prevention PBT - Persistent, Bioaccumulative and Toxic substance PICCS - Philippines Inventory of Chemicals and Chemical Substances (Q)SAR - (Quantitative) Structure Activity Relationship REACH - Regulation (ÉC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals RID - Regulations concerning the International Carriage of Dangerous Goods by Rail SADT - Self-Accelerating Decomposition Temperature



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SDS - Safety Data Sheet; SVHC - Substance of Very High Concern TCSI - Taiwan Chemical Substance Inventory TRGS - Technical Rule for Hazardous Substances

TSCA - Toxic Substances Control Act (United States

UN - United Nations

vPvB - Very Persistent and Very Bioaccumulative

# **Further information**

Training advice - Provide adequate information, instruction and training for operators.

# Other information

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Classification of mixture		Classification procedure
Flam. Liq. 3	H226	Based on product data or assessment
Acute Tox. 4	H332	Calculation method
Skin Irrit. 2	H315	Calculation method
Eye Irrit. 2	H319	Calculation method
Resp. Sens. 1	H334	Calculation method
Skin Sens. 1	H317	Calculation method
Carc. 2	H351	Calculation method
STOT SE 3	H335	Calculation method
STOT RE 2	H373	Calculation method
Asp. Tox. 1	H304	Calculation method
Aquatic Chronic 3	H412	Calculation method

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