

# SAFETY DATA SHEET

According to 13 December 2014, No:29204, "Ministry of Environment and Urbanization; Regulation on Safety data sheets regarding hazardous substances and mixtures; Part I".

## MSeal P 691 19,5KG 3A1

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	31.12.2020	000000249695	Date of first issue: 31.12.2020

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

#### 1.1 Product identifier

Trade name : MSeal P 691 19,5KG 3A1  
Product code : 000000000050256761

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

Use of the Sub-stance/Mixture : Product for construction chemicals, Adhesives  
Recommended restrictions on use : Industrial use, Professional use, Consumer use

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

Company : Master Builders Solutions  
Yapı Kimyasalları Sanayi ve Ticaret Ltd.  
Sti.,  
Ataşehir Kuzey, C Kapısı 3E/ 5-12  
34746 İstanbul, Turkey  
Telephone : +902162178800  
Telefax : +902162178800  
E-mail address of person responsible for the SDS : [mabas-eb@mbcc-group.com](mailto:mabas-eb@mbcc-group.com)

#### 1.4 Emergency telephone

Acil İlk Yardım Merkezi: 112 Ulusal Zehir Danışma Merkezi: 114 İtfaiye: 110

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification T.R. SEA No 28848

Flammable liquids, Category 3	H226: Flammable liquid and vapour.
Skin corrosion/irritation, Category 2	H315: Causes skin irritation.
Serious eye damage/eye irritation, Category 2	H319: Causes serious eye irritation.
Respiratory sensitization, Category 1	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin sensitization, 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	H335: May cause respiratory irritation.

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Specific target organ toxicity - repeated exposure, Category 2  
Hazardous to the aquatic environment - chronic hazard, Category 3

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

### 2.2 Label elements

#### Labeling T.R. SEA No 28848

Hazard pictograms :



Signal Word : Danger

Hazard Statements :

- H226 Flammable liquid and vapour.
- H319 Causes serious eye irritation.
- H315 Causes skin irritation.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H317 May cause an allergic skin reaction.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H335 May cause respiratory irritation.
- H351 Suspected of causing cancer.
- H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements :

#### Prevention:

- P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
- P260 Do not breathe dust or mist.
- P201 Obtain special instructions before use.
- P271 Use only outdoors or in a well-ventilated area.
- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P273 Avoid release to the environment.
- P202 Do not handle until all safety precautions have been read and understood.
- P243 Take action to prevent static discharges.
- P284 In case of inadequate ventilation wear respiratory protection.
- P241 Use explosion-proof electrical/ ventilating/ lighting equipment.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P264 Wash face, hands and any exposed skin thoroughly after handling.
- P242 Use only non-sparking tools.
- P240 Ground and bond container and receiving equipment.

#### Response:

- P312 Call a POISON CENTER or doctor/ physician if you feel unwell.

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P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P314 Get medical advice/ attention if you feel unwell.

P308 + P311 IF exposed or concerned: Call a POISON CENTER/ doctor.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

P362 + P364 Take off contaminated clothing and wash it before reuse.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

### Storage:

P403 + P235 Store in a well-ventilated place. Keep cool.

P233 Keep container tightly closed.

P405 Store locked up.

### Disposal:

P501 Dispose of contents/container to appropriate hazardous waste collection point.

Hazardous ingredients which must be listed on the label:

Diphenylmethane-4,4'-diisocyanate (MDI)

xylene

2,2'-Methylenediphenyl diisocyanate

diphenylmethane-2,4'-diisocyanate

Isocyanic acid, polymethylenepolyphenylene ester (P-MDI)

Cyclohexane, 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethyl-, homopolymer

### Additional Labeling:

EUH204 Contains isocyanates. May produce an allergic reaction.

### 2.3 Other hazards

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : polyisocyanate  
in water/solvent  
aromatic  
aliphatic

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### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Solvent naphtha (petroleum), light arom.	64742-95-6	Asp. Tox.1; H304 Flam. Liq.3; H226 STOT SE3; H336 STOT SE3; H335 Aquatic Chronic2; H411	>= 5 - < 7
3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, oligomers	53880-05-0 500-125-5	Skin Sens.1; H317	>= 10 - < 15
P-MDI	9016-87-9	Acute Tox.4; H332 Skin Irrit.2; H315 Eye Irrit.2A; H319 STOT SE3; H335 Skin Sens.1; H317 Resp. Sens.1; H334 Carc.2; H351 STOT RE2; H373	>= 10 - < 15
ethylbenzene	100-41-4 202-849-4 601-023-00-4	Asp. Tox.1; H304 Flam. Liq.2; H225 Acute Tox.4; H332 STOT RE2; H373 Aquatic Chronic3; H412	>= 3 - < 7
Diphenylmethane-4,4'-diisocyanate (MDI)	101-68-8 202-966-0 615-005-00-9	Acute Tox.4; H332 Skin Irrit.2; H315 Eye Irrit.2; H319 Resp. Sens.1; H334 Skin Sens.1; H317 Carc.2; H351 STOT SE3; H335 STOT RE2; H373	>= 10 - < 15
xylene	1330-20-7 215-535-7 601-022-00-9	Asp. Tox.1; H304 Flam. Liq.3; H226 Acute Tox.4; H332 Acute Tox.4; H312 Skin Irrit.2; H315 Eye Irrit.2; H319 STOT SE3; H335 STOT RE2; H373 Aquatic Chronic3; H412	>= 20 - < 50
diphenylmethane-2,4'-diisocyanate	5873-54-1 227-534-9	Acute Tox.4; H332 Skin Irrit.2; H315	>= 3 - < 5

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	615-005-00-9	Eye Irrit.2; H319 Resp. Sens.1; H334 Skin Sens.1; H317 Carc.2; H351 STOT SE3; H335 STOT RE2; H373
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For explanation of abbreviations see section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first-aid measures

- General advice : First aid personnel should pay attention to their own safety. Remove contaminated clothing.
- If inhaled : Remove the affected individual into fresh air and keep the person calm. If breathing difficulties develop, aid in breathing and seek immediate medical attention.
- In case of skin contact : Wash thoroughly with soap and water. Under no circumstances should organic solvent be used. If irritation develops, seek medical attention.
- In case of eye contact : Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.
- If swallowed : Rinse mouth and then drink 200-300 ml of water. Do not induce vomiting due to aspiration hazard. Do not induce vomiting unless told to by a poison control center or doctor.

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

None known.

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

Treatment : Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

- Suitable extinguishing media : Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical
- Unsuitable extinguishing media : High volume water jet

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

Specific hazards during fire fighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : carbon oxides  
harmful vapours  
nitrogen oxides  
fumes/smoke  
carbon black

### 5.3 Advice for firefighters

Special protective equipment for fire-fighters : Wear self-contained breathing apparatus for firefighting if necessary.

Further 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.  
For safety reasons in case of fire, cans should be stored separately in closed containments.  
Use a water spray to cool fully closed containers.

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## SECTION 6: Accidental release measures

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

Personal precautions : Use personal protective equipment.  
Ensure adequate ventilation.  
Remove all sources of ignition.  
Evacuate personnel to safe areas.  
Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

### 6.2 Environmental precautions

Environmental precautions : Prevent spread over a wide area (e.g. by containment or oil barriers).  
Contain contaminated water/firefighting water.  
Do not discharge into drains/surface waters/groundwater.

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

Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

### 6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

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### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

- Advice on safe handling : Take precautionary measures against static discharges. Keep away from sources of ignition - No smoking. Provide good room ventilation even at ground level (vapours are heavier than air).
- Advice on protection against fire and explosion : Sources of ignition should be kept well clear. Take precautionary measures against static discharges. Substance/product can form explosive mixture with air. Vapours are heavier than air and may accumulate in low areas and travel a considerable distance up to the source of ignition.
- Hygiene measures : When using, do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift. At the end of the shift the skin should be cleaned and skin-care agents applied. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks).

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

- Requirements for storage areas and containers : no smoking Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.
- Further information on storage conditions : Keep container tightly closed and in a well-ventilated place. Keep away from heat. Avoid all sources of ignition: heat, sparks, open flame.
- Further information on storage stability : No decomposition if stored and applied as directed.

#### 7.3 Specific end use(s)

- Specific use(s) : For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

##### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
ethylbenzene	100-41-4	TWA (8 Hour)	100 ppm 442 mg/m <sup>3</sup>	TR OEL
	Further information: A skin notation assigned to the OEL identifies the possibility of significant uptake through the skin.			
		STEL 15 min	200 ppm	TR OEL

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			884 mg/m3	
		TWA	100 ppm 442 mg/m3	2000/39/EC
	Further information: Identifies the possibility of significant uptake through the skin, Indicative			
		STEL	200 ppm 884 mg/m3	2000/39/EC
		STEL value	200 ppm 884 mg/m3	OEL (TR)
		TWA value	100 ppm 442 mg/m3	OEL (TR)
xylene	1330-20-7	TWA (8 Hour)	50 ppm 221 mg/m3	TR OEL
	Further information: A skin notation assigned to the OEL identifies the possibility of significant uptake through the skin.			
		STEL 15 min	100 ppm 442 mg/m3	TR OEL
		TWA	50 ppm 221 mg/m3	2000/39/EC
	Further information: Identifies the possibility of significant uptake through the skin, Indicative			
		STEL	100 ppm 442 mg/m3	2000/39/EC
		STEL value	100 ppm 442 mg/m3	OEL (TR)
		TWA value	50 ppm 221 mg/m3	OEL (TR)

### Derived No Effect Level (DNEL) :

Substance name	End Use	Routes of exposure	Potential health effects	Value
Solvent naphtha (petroleum), light arom.	Worker	Dermal	Long-term exposure-systemic effects	25 mg/kg
	Worker	Inhalation	Long-term exposure-systemic effects	150 mg/m3
	Consumer	Dermal	Long-term exposure-systemic effects	11 mg/kg
	Consumer	Inhalation	Long-term exposure-systemic effects	32 mg/m3
	Consumer	Oral	Long-term exposure-systemic effects	11 mg/kg
xylene	Worker	Inhalation	Long-term exposure-systemic effects	77 mg/m3
	Worker	Inhalation	Short-term exposure - systemic effects	289 mg/m3
	Worker	Dermal	Long-term exposure-systemic effects	180 mg/kg
	Consumer	Inhalation	Long-term exposure-systemic effects	14,8 mg/m3
	Consumer	Inhalation	Short-term exposure - systemic effects	174 mg/m3



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	Consumer	Dermal	Long-term exposure-systemic effects	108 mg/kg
	Consumer	Oral	Long-term exposure-systemic effects	1,6 mg/kg
Diphenylmethane-4,4'-diisocyanate (MDI)	Worker	Inhalation	Short-term exposure - systemic effects	0,1 mg/m3
	Worker	Inhalation	Long-term exposure-systemic effects	0,05 mg/m3
	Worker	Inhalation	Short-term exposure - local effects	0,1 mg/m3
	Worker	Inhalation	Long-term exposure - local effects	0,05 mg/m3
	Worker	Dermal	Short-term exposure - systemic effects	50 mg/kg
	Worker	Dermal	Short-term exposure - local effects	28,7 mg/cm2
	Consumer	Inhalation	Short-term exposure - systemic effects	0,05 mg/m3
	Consumer	Inhalation	Long-term exposure-systemic effects	0,025 mg/m3
	Consumer	Inhalation	Short-term exposure - local effects	0,05 mg/m3
	Consumer	Inhalation	Long-term exposure - local effects	0,025 mg/m3
	Consumer	Dermal	Short-term exposure - systemic effects	25 mg/kg
	Consumer	Dermal	Short-term exposure - local effects	17,2 mg/cm2
	Consumer	Oral	Short-term exposure - systemic effects	20 mg/kg
P-MDI				
Remarks:	The obligation to register acc. to the REACH Regulation (EC) No 1907/2006 does not apply to polymers.			
3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, oligomers	Worker	Inhalation	Long-term systemic effects	
Remarks:	No DNELs have been derived.			
	Worker	Inhalation	Acute systemic effects	
Remarks:	No DNELs have been derived.			
	Worker	Inhalation	Long-term local effects	0,29 mg/m3
	Worker	Inhalation	Acute local effects	0,58 mg/m3
	Worker	Dermal	Long-term systemic effects	
Remarks:	No DNEL value available.			
	Worker	Dermal	Acute systemic effects	
Remarks:	No DNEL value available.			

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	Worker	Dermal	Long-term local effects	
Remarks:	No DNEL value available.			
	Worker	Dermal	Acute local effects	
Remarks:	No DNEL value available.			
Polymethylene polyphenylisocyanate, polyethylene glycol polymer				
Remarks:	No data available			
2,2'-Methylenediphenyl diisocyanate	Worker	Dermal	Short-term exposure - systemic effects	50 mg/kg
	Consumer	Inhalation	Short-term exposure - systemic effects	0,05 mg/m3
	Consumer	Inhalation	Long-term exposure - local effects	0,025 mg/m3
	Worker	Inhalation	Long-term exposure-systemic effects	0,05 mg/m3
	Worker	Inhalation	Short-term exposure - systemic effects	0,1 mg/m3
	Consumer	Inhalation	Short-term exposure - local effects	0,05 mg/m3
	Consumer	Oral	Short-term exposure - systemic effects	20 mg/kg
	Consumer	Inhalation	Long-term exposure-systemic effects	0,025 mg/m3
	Consumer	Dermal	Short-term exposure - local effects	17,2 mg/cm2
	Worker	Inhalation	Long-term exposure - local effects	0,05 mg/m3
	Worker	Inhalation	Short-term exposure - local effects	0,1 mg/m3
	Consumer	Dermal	Short-term exposure - systemic effects	25 mg/kg
	Worker	Dermal	Short-term exposure - local effects	28,7 mg/cm2

### Predicted No Effect Concentration (PNEC) :

Substance name	Environmental Compartment	Value
Solvent naphtha (petroleum), light arom.		
Remarks:	No PNEC value available.	
xylene	freshwater	0,327 mg/l
	Sea water	0,327 mg/l
	intermittent release	0,327 mg/l
	Sewage treatment plant	6,58 mg/l
	sediment (freshwater)	12,46 mg/kg
	sediment (marine water)	12,46 mg/kg
	soil	2,31 mg/kg
Diphenylmethane-4,4'-	freshwater	1 mg/l

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diisocyanate (MDI)		
	Sea water	0,1 mg/l
	intermittent release	10 mg/l
	Sewage treatment plant	1 mg/l
	sediment (freshwater)	
Remarks:	Exposure of sediment is not expected	
	sediment (marine water)	
	Exposure of sediment is not expected	
	soil	1 mg/kg
P-MDI		
Remarks:	The obligation to register acc. to the REACH Regulation (EC) No 1907/2006 does not apply to polymers.	
3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, oligomers		Fresh water
		0,0015 mg/l
	Fresh water sediment	
Remarks:	Not relevant	
	Sea water	0,00015 mg/l
	Sea sediment	
	Not relevant	
	Sewage treatment plant	100 mg/l
	Soil	
	Not relevant	
	Oral	
	Not relevant	
Polymethylene polyphenylisocyanate, polyethylene glycol polymer		
Remarks:	No data available	
2,2'-Methylenediphenyl diisocyanate		Sea water
		0,1 mg/l
	intermittent release	10 mg/l
	Sewage treatment plant	1 mg/l
	freshwater	1 mg/l
	soil	1 mg/kg
	Oral	
Remarks:	Not relevant	
	Sediment	
	Not relevant	

### 8.2 Exposure controls

#### Personal protective equipment

Eye protection : Tightly fitting safety goggles (splash goggles) (e.g. EN 166)  
 Hand protection

Remarks : Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) etc. Manufacturer's directions for

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- use should be observed because of great diversity of types.
- Skin and body protection : Body protection must be chosen based on level of activity and exposure.  
Antistatic apron
- Respiratory protection : Respiratory protection in case of vapour/aerosol release.  
Suitable respiratory protection for higher concentrations or long-term effect:  
Gas filter for gases/vapours of organic compounds (boiling point <65 °C, f.e. EN 14387 Type AX)
- Protective measures : Avoid inhalation of dusts/mists/vapours.  
Avoid contact with the skin, eyes and clothing.  
Avoid prolonged and/or repeated contact with the skin.  
Handle in accordance with good building materials hygiene and safety practice.

### SECTION 9: Physical and chemical properties

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

- Appearance : liquid  
Color : various colours  
Odor : characteristic  
pH : Not applicable
- Melting point : No data available
- Boiling point : > 100 °C No data available
- Flash point : approx. 38 °C  
Method: Flashpoint test using closed cup, determination of flashpoint.
- Evaporation rate : not determined
- Flammability (solid, gas) : Flammable.
- Vapor pressure : No data available
- Relative vapor density : not determined
- Density : approx. 1,03 g/cm<sup>3</sup> (20 °C)
- Bulk density : Not applicable
- Solubility(ies)  
Water solubility : emulsifiable  
Partition coefficient: n-octanol/water : not applicable for mixtures  
Autoignition temperature : not determined
- Decomposition temperature : Vapors may form explosive mixture with air.

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No decomposition if stored and handled as prescribed/indicated.

Viscosity  
Viscosity, dynamic : approx. 110 mPa.s (23 °C)

Explosive properties : Not explosive

Oxidizing properties : not fire-propagating

### 9.2 Other information

No data available

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.  
No decomposition if stored and applied as directed.

### 10.2 Chemical stability

The product is stable if stored and handled as prescribed/indicated.  
No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : No decomposition if stored and applied as directed.

Vapors may form explosive mixture with air.

### 10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

### 10.5 Incompatible materials

Materials to avoid : No substances known that should be avoided.

### 10.6 Hazardous decomposition products

toxic gases/vapours

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Not classified based on available information.

#### Skin corrosion/irritation

Causes skin irritation.

#### Serious eye damage/eye irritation

Causes serious eye irritation.

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### Respiratory or skin sensitization

#### Skin sensitization

May cause an allergic skin reaction.

#### Respiratory sensitization

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

#### Germ cell mutagenicity

Not classified based on available information.

#### Carcinogenicity

Suspected of causing cancer.

#### Reproductive toxicity

Not classified based on available information.

#### STOT-single exposure

May cause respiratory irritation.

#### STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure.

#### Aspiration toxicity

Not classified based on available information.

#### Further information

#### Product:

Remarks : The product has not been tested. The statement has been derived from the properties of the individual components.

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Product:

#### Ecotoxicology Assessment

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

### 12.2 Persistence and degradability

No data available

### 12.3 Bioaccumulative potential

#### Components:

#### Solvent naphtha (petroleum), light arom.:

Bioaccumulation : Remarks: Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is possible.

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Partition coefficient: n-octanol/water : log Pow: 3,7 - 4,5

### **P-MDI:**

Partition coefficient: n-octanol/water : Remarks: Not applicable

### **ethylbenzene:**

Partition coefficient: n-octanol/water : Pow: 4.170 (20 °C)  
log Pow: 3,6 (20 °C)  
pH: 7,8  
Method: Partition coefficient  
GLP: yes

### **Diphenylmethane-4,4'-diisocyanate (MDI):**

Partition coefficient: n-octanol/water : log Pow: 4,51 (22 °C)  
pH: 7  
Method: Partition coefficient (n-octanol/water), HPLC method.  
GLP: no

### **diphenylmethane-2,4'-diisocyanate:**

Partition coefficient: n-octanol/water : log Pow: 5,22 (25 °C)  
Method: other (calculated)  
GLP: no

## 12.4 Mobility in soil

### Components:

#### **Solvent naphtha (petroleum), light arom.:**

Distribution among environmental compartments : Adsorption  
Kd: 1.837, log Kd: 3,26  
Method: Calculation method  
Remarks: Adsorption to solid soil phase is expected.

## 12.5 Results of PBT and vPvB assessment

Not relevant

## 12.6 Other adverse effects

### Product:

Additional ecological information : The product has not been tested. The statement has been derived from the properties of the individual components.  
Do not allow to enter soil, waterways or waste water channels.

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water

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courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.  
Do not burn, or use a cutting torch on, the empty drum.

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### SECTION 14: Transport information

#### 14.1 UN number

ADN	:	UN 1866
ADR	:	UN 1866
RID	:	UN 1866
IMDG	:	UN 1866
IATA	:	UN 1866

#### 14.2 UN proper shipping name

ADN	:	RESIN SOLUTION
ADR	:	RESIN SOLUTION
RID	:	RESIN SOLUTION
IMDG	:	RESIN SOLUTION
IATA	:	RESIN SOLUTION

#### 14.3 Transport hazard class(es)

ADN	:	3
ADR	:	3
RID	:	3
IMDG	:	3
IATA	:	3

#### 14.4 Packing group

ADN		
Packing group	:	III
Labels	:	3
ADR		
Packing group	:	III
Hazard Identification Number	:	30
Labels	:	3
Tunnel restriction code	:	(D/E)



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### RID

Packing group : III  
Hazard Identification Number : 30  
Labels : 3

### IMDG

Packing group : III  
Labels : 3  
EmS Code : F-E, S-E

### IATA (Cargo)

Packing instruction (cargo aircraft) : 366  
Packing group : III  
Labels : Flammable Liquids

### IATA (Passenger)

Packing instruction (passenger aircraft) : 355  
Packing group : III  
Labels : Flammable Liquids

## 14.5 Environmental hazards

### ADN

Environmentally hazardous : no

### ADR

Environmentally hazardous : no

### RID

Environmentally hazardous : no

### IMDG

Marine pollutant : no

## 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.

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## SECTION 15: Regulatory information

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

#### Other regulations:

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

If it is intended to use materials for the manufacture of consumer goods (e. g. products which

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will come into contact with foodstuffs or with the skin, toys) or medical products, national and international regulations have to be observed. Where no regulations exist, consumer goods or medical products must at least comply with European legislation. We recommend contacting our Sales and our Product Safety departments.

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

### 15.2 Chemical Safety Assessment

Chemical Safety Assessment not required

## SECTION 16: Other information

### Full text of H-Statements

H225	: Highly flammable liquid and vapour.
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.
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 (/*_ORGAN_REPEAT/*) through prolonged or repeated exposure.
H411	: Toxic to aquatic life with long lasting effects.
H412	: Harmful to aquatic life with long lasting effects.

### Full text of other abbreviations

Acute Tox.	: Acute toxicity
Aquatic Chronic	: Hazardous to the aquatic environment - chronic hazard
Aquatic Chronic	: Long-term (chronic) aquatic hazard
Asp. Tox.	: Aspiration hazard
Carc.	: Carcinogenicity
Eye Irrit.	: Eye irritation
Flam. Liq.	: Flammable liquids
Resp. Sens.	: Respiratory sensitization
Skin Irrit.	: Skin irritation
Skin Sens.	: Skin sensitization
STOT RE	: Specific target organ toxicity - repeated exposure
STOT SE	: Specific target organ toxicity - single exposure
2000/39/EC	: Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values
OEL (TR)	: Regulation on Protection of Health & Safety Measures from Risks related to Chemical Agents at Work (Turkey)
TR OEL	: Turkey. Chemical Agents at Work - Annex I: Indicative occupational exposure limit values

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2000/39/EC / TWA : Limit Value - eight hours  
2000/39/EC / STEL : Short term exposure limit  
OEL (TR) / STEL value : Short Term Exposure Limit (STEL):  
OEL (TR) / TWA value : Time Weighted Average (TWA):  
TR OEL / TWA (8 Hour) : Measured or calculated in relation to a reference period of eight-hour time-weighted average  
TR OEL / STEL 15 min : A limit value above which exposure should not occur and is related to a 15-minute period, unless otherwise specified

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 (EC) 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; SDS - Safety Data Sheet; SVHC - substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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