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

**1.1. Product identifier**

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**Further trade names**  
glass-paint primer

**1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/mixture**

Primer

**Uses advised against**

No information available.

**1.3. Details of the supplier of the safety data sheet**

Company name:	PMA/TOOLS AG	
Street:	Siemensring 42	
Place:	47877 Willich	
Telephone:	+49 2154 922230	Telefax: +49 2154 922255
e-mail:	info@pma-tools.de	
Contact person:	Michael Münter	
e-mail:	msds@pma-tools.de - Please DO NOT use for requesting Safety Data Sheets.	
Internet:	www.pma-tools.de	
Responsible Department:	Laboratory	

**1.4. Emergency telephone number:**

Telephone number of the company in case of emergencies:  
+49 2154 922230 (Mon - Fri 8.00h - 17.00h)

### SECTION 2: Hazards identification

**2.1. Classification of the substance or mixture**

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Hazard categories:

Flammable liquid: Flam. Liq. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Specific target organ toxicity - single exposure: STOT SE 3

Hazard Statements:

Highly flammable liquid and vapour.

Causes serious eye irritation.

May cause drowsiness or dizziness.

**2.2. Label elements**

Classification according to Regulation (EC) No. 1272/2008 [CLP]

**Hazard components for labelling**

butanone

Signal word: Danger

Pictograms:

**Hazard statements**

H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

**Precautionary statements**

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261	Avoid breathing mist/ spray.
P280	Wear protective gloves and eye/face protection.
P370	In case of fire:
P378	Use Foam, Extinguishing powder, Carbon dioxide (CO2) to extinguish.

**Special labelling of certain mixtures**

EUH066	Repeated exposure may cause skin dryness or cracking.
EUH204	Contains isocyanates. May produce an allergic reaction.

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**2.3. Other hazards**

The vapour of the product is heavier than air and may accumulate below ground level, in pits, channels and basements in higher concentration.

Persons already sensitised to diisocyanates may develop allergic reactions when using this product.

This mixture does not contain any substances presenting a health or environmental hazard within the meaning of the Dangerous Substances Directive 67/548/EEC or Regulation (EC) No 1272/2008, assigned a Community workplace exposure limit, classified as PBT/vPvB or included in the Candidate List.

**SECTION 3: Composition/information on ingredients****3.2. Mixtures****Chemical characterization**

Primer/ Polyurethane installation products, containing solvents

**Hazardous components**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
78-93-3	butanone			40 - 60 %
	201-159-0	606-002-00-3	01-2119457290-43	
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 EUH066			
141-78-6	ethyl acetate			1 -< 5 %
	205-500-4	607-022-00-5	01-2119475103-46	
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 EUH066			
123-86-4	n-butyl acetate			1 -< 5 %
	204-658-1	607-025-00-1	01-2119485493-29	
	Flam. Liq. 3, STOT SE 3; H226 H336 EUH066			
79-10-7	acrylic acid, prop-2-enoic acid			0,1 -< 1 %
	201-177-9	607-061-00-8	01-2119452449-31	
	Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Acute Tox. 4, Skin Corr. 1A, STOT SE 3, Aquatic Acute 1 (M-Factor = 1), Aquatic Chronic 2; H226 H302 H312 H332 H314 H335 H400 H411			
584-84-9	4-methyl-m-phenylene diisocyanate, toluene-2,4-di-isocyanate			0,01 -< 0,1 %
	209-544-5	615-006-00-4	01-2119454791-34	
	Carc. 2, Acute Tox. 2, Skin Irrit. 2, Eye Irrit. 2, Resp. Sens. 1, Skin Sens. 1, STOT SE 3, Aquatic Chronic 3; H351 H330 H315 H319 H334 H317 H335 H412			

Full text of H and EUH statements: see section 16.

**SECTION 4: First aid measures****4.1. Description of first aid measures****After inhalation**

Provide fresh air. Call a doctor if you feel unwell.

**After contact with skin**

After contact with skin, wash immediately with plenty of water and soap. After cleaning apply high-fat content skin care cream. Change contaminated, saturated clothing.

**After contact with eyes**

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

**After ingestion**

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Call a doctor.

**4.2. Most important symptoms and effects, both acute and delayed**

eyes: Chemosis.

Repeated exposure may cause skin dryness or cracking.

Vapours may cause drowsiness and dizziness.

**4.3. Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

**SECTION 5: Firefighting measures****5.1. Extinguishing media**

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**Suitable extinguishing media**

Carbon dioxide (CO<sub>2</sub>), Foam, Extinguishing powder.

**Unsuitable extinguishing media**

Water.

**5.2. Special hazards arising from the substance or mixture**

In case of fire may be liberated: Gases/vapours, toxic

**5.3. Advice for firefighters**

Use personal protection equipment. In case of fire: Wear self-contained breathing apparatus.

**SECTION 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

Use personal protection equipment. Avoid contact with skin, eyes and clothes. Remove persons to safety. Special danger of slipping by leaking/spilling product.

**6.2. Environmental precautions**

Do not allow to enter into surface water or drains.

**6.3. Methods and material for containment and cleaning up**

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

**6.4. Reference to other sections**

See section 8.

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

**Advice on safe handling**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Provide earthing of containers, equipment, pumps and ventilation facilities.

Use only antistatically equipped (spark-free) tools.

Take precautionary measures against static discharges.

**Further information on handling**

When using do not eat, drink, smoke, sniff.

Wash hands before breaks and after work.

**7.2. Conditions for safe storage, including any incompatibilities**

**Requirements for storage rooms and vessels**

Ensure adequate ventilation of the storage area.

Store in a dry place.

Keep in a cool, well-ventilated place.

storage temperature 15 - 25°C

**Advice on storage compatibility**

Keep away from food, drink and animal feedingstuffs.

**7.3. Specific end use(s)**

Primer

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

**Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
78-93-3	Butan-2-one (methyl ethyl ketone)	200	600		TWA (8 h)	WEL
		300	899		STEL (15 min)	WEL
123-86-4	Butyl acetate	150	724		TWA (8 h)	WEL
		200	966		STEL (15 min)	WEL
141-78-6	Ethyl acetate	200	-		TWA (8 h)	WEL
		400	-		STEL (15 min)	WEL

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**Biological Monitoring Guidance Values (EH40)**

CAS No	Substance	Parameter	Value	Test material	Sampling time
78-93-3	Butan-2-one	butan-2-one	70 µmol/L	urine	Post shift

**DNEL/DMEL values**

CAS No	Substance	Exposure route	Effect	Value
78-93-3	butanone			
	Worker DNEL, long-term	dermal	systemic	1161 mg/kg bw/day
	Worker DNEL, long-term	inhalation	systemic	600 mg/m <sup>3</sup>
	Consumer DNEL, long-term	dermal	systemic	412 mg/kg bw/day
	Consumer DNEL, long-term	inhalation	systemic	106 mg/m <sup>3</sup>
	Consumer DNEL, long-term	oral	systemic	31 mg/kg bw/day
141-78-6	ethyl acetate			
	Worker DNEL, acute	inhalation	systemic	1468 mg/m <sup>3</sup>
	Worker DNEL, acute	inhalation	local	1468 mg/m <sup>3</sup>
	Worker DNEL, long-term	dermal	systemic	63 mg/kg bw/day
	Worker DNEL, long-term	inhalation	systemic	734 mg/m <sup>3</sup>
	Worker DNEL, long-term	inhalation	local	734 mg/m <sup>3</sup>
	Consumer DNEL, acute	oral	systemic	734 mg/kg bw/day
	Consumer DNEL, acute	inhalation	local	734 mg/m <sup>3</sup>
	Consumer DNEL, long-term	dermal	systemic	37 mg/kg bw/day
	Consumer DNEL, long-term	inhalation	systemic	367 mg/m <sup>3</sup>
	Consumer DNEL, long-term	oral	systemic	4,5 mg/kg bw/day
	Consumer DNEL, long-term	inhalation	local	367 mg/m <sup>3</sup>
123-86-4	n-butyl acetate			
	Worker DNEL, long-term	inhalation	systemic	48 mg/m <sup>3</sup>
	Worker DNEL, long-term	dermal	systemic	7 mg/kg bw/day
	Consumer DNEL, long-term	inhalation	systemic	12 mg/m <sup>3</sup>
	Consumer DNEL, long-term	dermal	systemic	3,4 mg/kg bw/day
	Consumer DNEL, long-term	oral	systemic	3,4 mg/kg bw/day
79-10-7	acrylic acid, prop-2-enoic acid			
	Worker DNEL, long-term	inhalation	local	30 mg/m <sup>3</sup>
	Worker DNEL, acute	inhalation	local	30 mg/m <sup>3</sup>
	Worker DNEL, acute	dermal	local	1 mg/cm <sup>2</sup>
	Consumer DNEL, acute	dermal	local	1 mg/cm <sup>2</sup>
	Consumer DNEL, acute	inhalation	local	3,6 mg/m <sup>3</sup>
	Consumer DNEL, long-term	inhalation	local	3,6 mg/m <sup>3</sup>
584-84-9	4-methyl-m-phenylene diisocyanate, toluene-2,4-di-isocyanate			
	Worker DNEL, acute	inhalation	systemic	0,14 mg/m <sup>3</sup>
	Worker DNEL, acute	inhalation	local	0,14 mg/m <sup>3</sup>
	Worker DNEL, long-term	inhalation	systemic	0,035 mg/m <sup>3</sup>
	Worker DNEL, long-term	inhalation	local	0,035 mg/m <sup>3</sup>

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**PNEC values**

CAS No	Substance	Value
Environmental compartment		Value
78-93-3	butanone	
Freshwater		55,8 mg/l
Marine water		55,8 mg/l
Freshwater sediment		284,74 mg/kg
Marine sediment		284,7 mg/kg
Micro-organisms in sewage treatment plants (STP)		709 mg/l
Soil		22,5 mg/kg
Air		1000 mg/kg
141-78-6	ethyl acetate	
Freshwater		0,26 mg/l
Marine water		0,026 mg/l
Freshwater sediment		1,25 mg/kg
Marine sediment		0,125 mg/kg
Micro-organisms in sewage treatment plants (STP)		650 mg/l
Soil		0,24 mg/kg
Air		200 mg/kg
123-86-4	n-butyl acetate	
Freshwater		0,18 mg/l
Marine water		0,018 mg/l
Freshwater sediment		0,981 mg/kg
Marine sediment		0,0981 mg/kg
Micro-organisms in sewage treatment plants (STP)		35,6 mg/l
Soil		0,0903 mg/kg
79-10-7	acrylic acid, prop-2-enoic acid	
Freshwater		0,003 mg/l
Marine water		0,0003 mg/l
Freshwater sediment		0,0236 mg/kg
Marine sediment		0,00236 mg/kg
Micro-organisms in sewage treatment plants (STP)		0,9 mg/l
Soil		1 mg/kg
Air		0,0023 mg/kg
584-84-9	4-methyl-m-phenylene diisocyanate, toluene-2,4-di-isocyanate	
Freshwater		0,0125 mg/l
Marine water		0,00125 mg/l
Micro-organisms in sewage treatment plants (STP)		1 mg/l
Soil		1 mg/kg

**8.2. Exposure controls**



**Appropriate engineering controls**

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

**Protective and hygiene measures**

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

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**Eye/face protection**

Suitable eye protection: goggles. DIN EN 166

**Hand protection**

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.  
Butyl caoutchouc (butyl rubber) - DIN EN 374. Replace when worn.

**Skin protection**

Use personal protection equipment.  
Flame-retardant protective clothing. Wear anti-static footwear and clothing  
DIN EN ISO 13982

When handling with chemical substances, protective clothing with CE-labels including the four control digits must be worn.

**Respiratory protection**

Wear breathing apparatus if exposed to vapours/dusts/aerosols.  
Suitable respiratory protection apparatus: Combination filtering device (EN 14387)

**SECTION 9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

Physical state:	liquid	
Colour:	black	
Odour:	Ethyl methyl ketone	
		<b>Test method</b>
pH-Value:		not applicable
<b>Changes in the physical state</b>		
Melting point:		not applicable
Initial boiling point and boiling range:		79 °C
Sublimation point:		not applicable
Softening point:		not applicable
Pour point:		not applicable
Flash point:		-4 °C
<b>Flammability</b>		
Solid:		not applicable
Gas:		not applicable
<b>Explosive properties</b>		
No data available		
Lower explosion limits:		1,8 vol. %
Upper explosion limits:		11,5 vol. %
<b>Auto-ignition temperature</b>		
Solid:		not applicable
Gas:		not applicable
Decomposition temperature:		not applicable
<b>Oxidizing properties</b>		
Not oxidising.		
Vapour pressure:		250 hPa
Vapour pressure: (at 55 °C)		430 hPa
Density (at 20 °C):		0,98 g/cm <sup>3</sup>
Bulk density:		not applicable
Water solubility: (at 20 °C)		Immiscible
<b>Solubility in other solvents</b>		
not determined		
Partition coefficient:		not determined
Viscosity / dynamic: (at 20 °C)		9 -19 mPa·s
Viscosity / kinematic:		not applicable

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Flow time: 13s 25 mm Düse  
(at 23 °C)  
Vapour density: not applicable  
Evaporation rate: not applicable

**9.2. Other information**

Solid content: not determined

**SECTION 10: Stability and reactivity****10.1. Reactivity**Reacts with : Water (Danger of bursting container. Formation of: Carbon dioxide (CO<sub>2</sub>).; Alcohols; Amines; Oxidising agent, strong**10.2. Chemical stability**

The product is chemically stable under recommended conditions of storage, use and temperature.

**10.3. Possibility of hazardous reactions**

SECTION 10: Stability and reactivity

**10.4. Conditions to avoid**Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
Keep away from: Humidity**10.5. Incompatible materials**

SECTION 10: Stability and reactivity

**10.6. Hazardous decomposition products**In case of warming: Formation of: Isocyanate  
Reacts with : Water (Danger of bursting container. Formation of: Carbon dioxide (CO<sub>2</sub>.)**SECTION 11: Toxicological information****11.1. Information on toxicological effects**

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**Acute toxicity**

CAS No	Chemical name	Exposure route	Dose	Species	Source	Method
78-93-3	butanone	oral	LD50 2.600 - 5.400 mg/kg	Rat		
		dermal	LD50 6.400 - 8.000 mg/kg	Rabbit		
		inhalative vapour	LC50 >5000 mg/l	Rat		
141-78-6	ethyl acetate	oral	LD50 6.100 mg/kg	Rat		
		dermal	LD50 >20.000 mg/kg	Rabbit		
		inhalative (1 h) vapour	LC50 200 mg/l	Rat		
123-86-4	n-butyl acetate	oral	LD50 >8.800 mg/kg	Rat		BASF
		dermal	LD50 >14.112 mg/kg	Rabbit		OECD 402
		inhalative (4 h) vapour	LC50 >23,4 mg/l	Rat		OECD 403
79-10-7	acrylic acid, prop-2-enoic acid	oral	LD50 1.500 mg/kg	Rat		BASF
		dermal	LD50 >2.000 mg/kg	Rabbit		OECD 402
		inhalative (4 h) vapour	LC50 5,1 mg/l	Rat		OECD 403
		inhalative aerosol	ATE 1,5 mg/l			
584-84-9	4-methyl-m-phenylene diisocyanate, toluene-2,4-di-isocyanate	oral	LD50 5800 mg/kg	Rat	RTECS	
		dermal	LD50 >9.400 mg/kg	Rabbit	RTECS	OECD 402
		inhalative (4 h) vapour	LC50 0,24 mg/l	Rat	RTECS	OECD 403
		inhalative aerosol	ATE 0,05 mg/l			

**Additional information on tests**

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

**SECTION 12: Ecological information**

**12.1. Toxicity**

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP] The ecotoxicological properties of this mixture are determined by the ecotoxicological properties of the single components (see section 3).

Do not allow to enter into surface water or drains.



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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
78-93-3	butanone					
	Acute fish toxicity	LC50 3.220 mg/l	96 h	Pimephales promelas (fathead minnow)		OECD 203
	Acute algae toxicity	ErC50 >1.000 mg/l				OECD 201
	Acute crustacea toxicity	EC50 5.091 mg/l	48 h	Daphnia magna (Big water flea)	Daphnia pulex (water flea)	OECD 202
	Acute bacteria toxicity	(>1.000 mg/l)	0 h			OECD 209
141-78-6	ethyl acetate					
	Acute fish toxicity	LC50 270 mg/l	96 h	Leuciscus idus (golden orfe)		DIN 38412 / part 15
	Acute algae toxicity	ErC50 >2.000 mg/l	96 h	Selenastrum capricornutum		OECD 201
	Acute crustacea toxicity	EC50 164 mg/l	48 h	Daphnia pulex (water flea)		OECD 202
	Algae toxicity	NOEC 2.000 mg/l	4 d	Selenastrum capricornutum		OECD 201
	Crustacea toxicity	NOEC 2,4 mg/l	21 d	Daphnia magna (Big water flea)		OECD 211
123-86-4	n-butyl acetate					
	Acute fish toxicity	LC50 18 mg/l	96 h	Pimephales promelas (fathead minnow)		OECD 203
	Acute algae toxicity	ErC50 674,7 mg/l	72 h	Scenedesmus subspicatus		OECD 201
	Acute crustacea toxicity	EC50 44 mg/l	48 h	Ceriodaphnia spec		OECD 202
	Crustacea toxicity	NOEC 23,2 mg/l	21 d	Daphnia magna (Big water flea)		OECD 211
	Acute bacteria toxicity	(356 mg/l)		Tetrahydrofurane		
79-10-7	acrylic acid, prop-2-enoic acid					
	Acute fish toxicity	LC50 27 mg/l	96 h	Onchorhynchus mykiss		
	Acute algae toxicity	ErC50 0,13 mg/l	72 h	Scenedesmus subspicatus		OECD 201
	Acute crustacea toxicity	EC50 95 mg/l	48 h	Daphnia magna		OECD 201
	Crustacea toxicity	NOEC 19 mg/l	21 d	Daphnia magna (Big water flea)		
584-84-9	4-methyl-m-phenylene diisocyanate, toluene-2,4-di-isocyanate					
	Acute fish toxicity	LC50 133 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)		OECD 203
	Acute algae toxicity	ErC50 4.300 mg/l	96 h	Chlorella vulgaris		OECD 201
	Acute crustacea toxicity	EC50 12,5 mg/l	48 h	Daphnia magna		OECD 202
	Crustacea toxicity	NOEC 1,1 mg/l	21 d	Daphnia magna (Big water flea)		OECD 211
	Acute bacteria toxicity	(>100 mg/l)	3 h	Activated sludge		OECD 209

### **12.2. Persistence and degradability**

The product has not been tested.

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CAS No	Chemical name	Method	Value	d	Source
		Evaluation			
78-93-3	butanone	OECD 301A/ ISO 7827/ EEC 92/69/V, C.4-A	>60%		
	Readily biodegradable (according to OECD criteria).				
141-78-6	ethyl acetate	OECD 301A/ ISO 7827/ EEC 92/69/V, C.4-A	100 %		
	Readily biodegradable (according to OECD criteria).				
123-86-4	n-butyl acetate	OECD 301D/ EEC 92/69/V, C.4-E	83 %		
	Readily biodegradable (according to OECD criteria).				
79-10-7	acrylic acid, prop-2-enoic acid	OECD 301D/ EEC 92/69/V, C.4-E	81 %		
	Readily biodegradable (according to OECD criteria).				
		OECD 302B/ ISO 9888/ EEC 92/69/V, C.9	100 %		
	Evidence for inherent biodegradability.				
584-84-9	4-methyl-m-phenylene diisocyanate, toluene-2,4-di-isocyanate	OECD 302 C	0 %		
	According to experiences this product is inert and not degradable.				

### 12.3. Bioaccumulative potential

The product has not been tested.

### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
78-93-3	butanone	0,29
141-78-6	ethyl acetate	0,6
123-86-4	n-butyl acetate	2,3
79-10-7	acrylic acid, prop-2-enoic acid	0,46
584-84-9	4-methyl-m-phenylene diisocyanate, toluene-2,4-di-isocyanate	3,43

### BCF

CAS No	Chemical name	BCF	Species	Source
79-10-7	acrylic acid, prop-2-enoic acid	3,16		
584-84-9	4-methyl-m-phenylene diisocyanate, toluene-2,4-di-isocyanate	5		OECD 117

### 12.4. Mobility in soil

The product has not been tested.

### 12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

### 12.6. Other adverse effects

No information available.

### Further information

Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Advice on disposal

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

#### Waste disposal number of waste from residues/unused products

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances  
Classified as hazardous waste.

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**Contaminated packaging**

This material and its container must be disposed of as hazardous waste. Handle contaminated packages in the same way as the substance itself.

**SECTION 14: Transport information**

**Land transport (ADR/RID)**

**14.1. UN number:** UN 1139  
**14.2. UN proper shipping name:** Coating solution  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** II  
 Hazard label: 3



Classification code: F1  
 Special Provisions: 640D  
 Limited quantity: 5 L  
 Excepted quantity: E2  
 Transport category: 2  
 Hazard No: 33  
 Tunnel restriction code: D/E

**Inland waterways transport (ADN)**

**14.1. UN number:** UN 1139  
**14.2. UN proper shipping name:** Coating solution  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** II  
 Hazard label: 3



Classification code: F1  
 Special Provisions: 640D  
 Limited quantity: 5 L  
 Excepted quantity: E2

**Marine transport (IMDG)**

**14.1. UN number:** UN 1139  
**14.2. UN proper shipping name:** Coating solution  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** II  
 Hazard label: 3



Special Provisions: -  
 Limited quantity: 5 L  
 Excepted quantity: E2  
 EmS: F-E, S-E

**Air transport (ICAO-TI/IATA-DGR)**

**14.1. UN number:** UN 1139  
**14.2. UN proper shipping name:** Coating solution  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** II  
 Hazard label: 3

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Special Provisions:	A3	
Limited quantity Passenger:	1 L	
Passenger LQ:	Y341	
Excepted quantity:	E2	
IATA-packing instructions - Passenger:		353
IATA-max. quantity - Passenger:		5 L
IATA-packing instructions - Cargo:		364
IATA-max. quantity - Cargo:		60 L

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: no

**14.6. Special precautions for user**

Warning: Combustible liquid.

**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

not applicable

## SECTION 15: Regulatory information

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

2010/75/EU (VOC): 63,7 %

**National regulatory information**

Employment restrictions: Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water contaminating class (D): 1 - slightly water contaminating

**15.2. Chemical safety assessment**

For this mixture a chemical safety assessment has been carried out.

## SECTION 16: Other information

**Changes**

This data sheet contains changes from the previous version in section(s): 2.

**Abbreviations and acronyms**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
 IMDG: International Maritime Code for Dangerous Goods  
 IATA: International Air Transport Association  
 GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
 EINECS: European Inventory of Existing Commercial Chemical Substances  
 ELINCS: European List of Notified Chemical Substances  
 CAS: Chemical Abstracts Service  
 LC50: Lethal concentration, 50%  
 LD50: Lethal dose, 50%

**Relevant H and EUH statements (number and full text)**

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.

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H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.
EUH204	Contains isocyanates. May produce an allergic reaction.

**Further Information**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*