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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:	D-47877 Willich - Germany	
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 (24 h):
+49 (0) 700 / 24 112 112 (PMR)
+1 872 5888271 (PMR)

Emergency information services / official advisory body:
<UK> National Poisons Information Service (24 h): 0870 600 6266 (UK only)

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****GB CLP Regulation**

Flam. Liq. 2; H225
Eye Irrit. 2; H319
STOT SE 3; H336

Full text of hazard statements: see SECTION 16.

2.2. Label elements**GB CLP Regulation****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.

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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+P378	In case of fire: Foam, Extinguishing powder, Carbon dioxide (CO ₂). Use to extinguish.

Special labelling of certain mixtures

EUH066	Repeated exposure may cause skin dryness or cracking.
EUH204	Contains isocyanates. May produce an allergic reaction. As from 24 August 2023 adequate training is required before industrial or professional use.

Additional advice on labellingFurther information: <https://www.feica.eu/PUinfo>**2.3. Other hazards**

Persons already sensitised to diisocyanates may develop allergic reactions when using this product.
Solvents contained in the product evaporate during processing and their vapors can form explosive/highly inflammable air/vapor mixtures.
The vapour of the product is heavier than air and may accumulate below ground level, in pits, channels and basements in higher concentration.
The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

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

Primer, solvent based

Base: polyurethane prepolymer

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
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 - < 3 %
	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, Aquatic Chronic 2; H226 H332 H312 H302 H314 H335 H400 H411			

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

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

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General information

First aider: Pay attention to self-protection! Remove affected person from the danger area and lay down.

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****Suitable extinguishing media**

Carbon dioxide (CO₂), Foam, Extinguishing powder.

Unsuitable extinguishing media

Full water jet

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.

Do not allow to enter into soil/subsoil.

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.

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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

Hints on joint storage

Keep away from food, drink and animal feedingstuffs.

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
79-10-7	Acrylic acid	10	29		TWA (8 h)	WEL
		20	59		STEL (1 min)	WEL
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	734		TWA (8 h)	WEL
		400	1468		STEL (15 min)	WEL

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

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DNEL/DMEL values

CAS No	Substance			
DNEL type		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 ³
Consumer DNEL, long-term		dermal	systemic	412 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	106 mg/m ³
Consumer DNEL, long-term		oral	systemic	31 mg/kg bw/day
141-78-6	ethyl acetate			
Worker DNEL, acute		inhalation	systemic	1468 mg/m ³
Worker DNEL, acute		inhalation	local	1468 mg/m ³
Worker DNEL, long-term		dermal	systemic	63 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	734 mg/m ³
Worker DNEL, long-term		inhalation	local	734 mg/m ³
Consumer DNEL, acute		oral	systemic	734 mg/kg bw/day
Consumer DNEL, acute		inhalation	local	734 mg/m ³
Consumer DNEL, long-term		dermal	systemic	37 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	367 mg/m ³
Consumer DNEL, long-term		oral	systemic	4,5 mg/kg bw/day
Consumer DNEL, long-term		inhalation	local	367 mg/m ³
123-86-4	n-butyl acetate			
Worker DNEL, long-term		inhalation	systemic	48 mg/m ³
Worker DNEL, long-term		dermal	systemic	7 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	12 mg/m ³
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 ³
Worker DNEL, acute		inhalation	local	30 mg/m ³
Worker DNEL, acute		dermal	local	1 mg/cm ²
Consumer DNEL, acute		dermal	local	1 mg/cm ²
Consumer DNEL, acute		inhalation	local	3,6 mg/m ³
Consumer DNEL, long-term		inhalation	local	3,6 mg/m ³

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PNEC values

CAS No	Substance	Value
Environmental compartment		
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		0,24 mg/l
Freshwater (intermittent releases)		1,65 mg/l
Marine water		0,024 mg/l
Freshwater sediment		1,15 mg/kg
Marine sediment		0,115 mg/kg
Micro-organisms in sewage treatment plants (STP)		650 mg/l
Soil		0,148 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
Secondary poisoning		30 mg/kg
Micro-organisms in sewage treatment plants (STP)		0,9 mg/l
Soil		1 mg/kg

8.2. Exposure controls**Appropriate engineering controls**

Use only outdoors or in a well-ventilated area. If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

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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.

Eye/face protection

Suitable eye protection: goggles. (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. Breakthrough times and swelling properties of the material must be taken into consideration.

Wear suitable gloves. (EN 374).

Recommended material: Butyl caoutchouc (butyl rubber)

Thickness of the glove material: $\geq 0,7$ mm

Breakthrough time (maximum wearing time): INDEX No. 2, > 30 Min. / INDEX No. 6, > 480 Min.

Replace when worn.

Skin protection

Use personal protection equipment.

Wear anti-static footwear and clothing

When handling with chemical substances, protective clothing with CE-labels including the four control digits must be worn. (89/686/EWG).

Recommended protective clothing articles: compliant EN 14605 / EN 13982.

Respiratory protection

In case of dangerous gases, vapours or dusts self-contained breathing apparatus or suitable masks and filters need to be advised. In case of inadequate ventilation wear respiratory protection.

Suitable respiratory protection apparatus: particle filter ABEK-P2 (EN 14387).

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state:	Liquid
Colour:	black
Odour:	like: Solvent

Test method

pH-Value: No data available

Changes in the physical state

Melting point/freezing point: No data available

Boiling point or initial boiling point and boiling range: 79 °C

Flash point: -4 °C

Flammability

Solid: No data available

Gas: No data available

Explosive properties

No data available

Lower explosion limits: 1,8 vol. %

Upper explosion limits: 11,5 vol. %

Auto-ignition temperature: No data available

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Self-ignition temperature

Solid: No data available
Gas: No data available

Decomposition temperature: No data available

Oxidizing properties

No data available

Vapour pressure: 250 hPa

Vapour pressure:
(at 55 °C) 430 hPa

Density (at 20 °C): 0,98 g/cm³

Bulk density: No data available

Water solubility:
(at 20 °C) Immiscible

Solubility in other solvents

not determined

Partition coefficient n-octanol/water: No data available

Viscosity / dynamic:
(at 20 °C) 9 -19 mPa·s

Viscosity / kinematic: No data available

Flow time:
(at 23 °C) 13s 25 mm Düse

Relative vapour density: No data available

9.2. Other information

No data available

SECTION 10: Stability and reactivity**10.1. Reactivity**

Reacts with : Water (Danger of bursting container. Formation of: Carbon dioxide (CO₂).; 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

See 10.1 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

See 10.1 Reactivity

10.6. Hazardous decomposition products

In case of warming: Formation of: Isocyanate

Reacts with : Water (Danger of bursting container. Formation of: Carbon dioxide (CO₂).)

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute toxicity**

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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).

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

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
78-93-3	butanone				
	oral	LD50 mg/kg 2.737	Rat		
	dermal	LD50 mg/kg > 6.400	Rabbit		
	inhalation (4 h) vapour	LC50 > 20 mg/l	Rat		
141-78-6	ethyl acetate				
	oral	LD50 mg/kg 6.100	Rat		
	dermal	LD50 mg/kg >20.000	Rabbit		Draize Test
	inhalation (1 h) vapour	LC50 200 mg/l	Rat		
123-86-4	n-butyl acetate				
	oral	LD50 mg/kg >8.800	Rat		BASF
	dermal	LD50 mg/kg >14.112	Rabbit		OECD 402
	inhalation (4 h) vapour	LC50 >23,4 mg/l	Rat		OECD 403
79-10-7	acrylic acid, prop-2-enoic acid				
	oral	LD50 mg/kg 1.500	Rat		OECD 401
	dermal	LD50 mg/kg >2.000	Rabbit		OECD 402
	inhalation (4 h) vapour	LC50 5,1 mg/l	Rat		OECD 403
	inhalation dust/mist	ATE 1,5 mg/l			

Irritation and corrosivity

Repeated exposure may cause skin dryness or cracking.
Causes serious eye irritation.

Sensitising effects

Contains isocyanates. May produce an allergic reaction.
Persons already sensitised to diisocyanates may develop allergic reactions when using this product.
Repeated exposure may cause skin dryness or cracking.

Carcinogenic/mutagenic/toxic effects for reproduction

negative.

STOT-single exposure

May cause drowsiness or dizziness.

STOT-repeated exposure

The mixture may be a skin sensitiser. It may also be a skin irritant and repeated contact may increase this effect.

Aspiration hazard

There are no data available on the mixture itself.

Additional information on tests

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

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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 soil/subsoil. Do not allow to enter into surface water or drains.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
78-93-3	butanone					
	Acute fish toxicity	LC50 mg/l	3.220	96 h	Pimephales promelas (fathead minnow)	OECD 203
	Acute algae toxicity	ErC50 mg/l	> 1.000			OECD 201
	Acute crustacea toxicity	EC50 mg/l	5.091	48 h	Daphnia magna (Big water flea)	Daphnia pulex (water flea) OECD 202
	Acute bacteria toxicity	(EC50 mg/l)	1.150	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 mg/l	>2.000	96 h	Selenastrum capricornutum	OECD 201
	Acute crustacea toxicity	EC50	164 mg/l	48 h	Daphnia pulex (water flea)	OECD 202
	Algae toxicity	NOEC mg/l	2.000	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 mg/l	674,7	72 h	Scenedesmus subspicatus	OECD 201
	Acute crustacea toxicity	EC50	44 mg/l	48 h	Ceriodaphnia spec	OECD 202
	Crustacea toxicity	NOEC mg/l	23,2	21 d	Daphnia magna (Big water flea)	OECD 211
	Acute bacteria toxicity	(EC50 mg/l)	356		Tetrahydrofurane	
79-10-7	acrylic acid, prop-2-enoic acid					
	Acute fish toxicity	LC50	27 mg/l	96 h	Onchorhynchus mykiss	OECD 210
	Acute algae toxicity	ErC50 mg/l	0,13	72 h	Scenedesmus subspicatus	OECD 201
	Acute crustacea toxicity	EC50	95 mg/l	48 h	Daphnia magna	OECD 201
	Fish toxicity	NOEC mg/l	>= 10,1	45 d	Orzyias latipes	
	Crustacea toxicity	NOEC	19 mg/l	21 d	Daphnia magna (Big water flea)	

12.2. Persistence and degradability

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There are no data available on the mixture itself.

CAS No	Chemical name	Method	Value	d	Source
		Evaluation			
78-93-3	butanone				
		OECD 301D	98 %	28	
	Readily biodegradable (according to OECD criteria).				
141-78-6	ethyl acetate				
		OECD 301D	100 %	28	
	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 %	28	
	Readily biodegradable (according to OECD criteria).				
		OECD 302B	100 %	28	
	Evidence for inherent biodegradability.				

12.3. Bioaccumulative potential

There are no data available on the mixture itself.

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

BCF

CAS No	Chemical name	BCF	Species	Source
141-78-6	ethyl acetate	30	Leuciscus idus (golden orfe)	
79-10-7	acrylic acid, prop-2-enoic acid	3,16		Quantitative structure-activity relationship (QSAR)

12.4. Mobility in soil

There are no data available on the mixture itself.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to 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****Disposal recommendations**

Do not allow to enter into surface water or drains.

Consult the appropriate authorities about waste disposal. Dispose of waste according to applicable legislation.

The waste key according to the European Waste Catalogue (EWC number) refers to the real wastes origin and therefore is not product- but use-oriented.

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The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

Recommendation: 08 04 09 Adhesives, sealants

List of Wastes Code - 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; hazardous waste

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

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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



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

See SECTION 14: Transport information

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**

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40, Entry 75

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

National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles 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 hazard class (D): 2 - obviously hazardous to water

Additional information

Berufsgenossenschaftliche Informationen (BGI): BGI 524 (M 044) Isocyanate

Berufsgenossenschaftliche Informationen (BGI): BGI 621 Solvent

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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):
1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16.

Abbreviations and acronyms

ADN: Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways).
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road).
ATE: Acute Toxicity Estimate.
AwSV: Anlagenverordnung wassergefährdender Stoffe (Regulation on facilities handling substances dangerous to water).
BGI: Berufsgenossenschaftliche Informationen (trade association information).
BGR: Berufsgenossenschaftliche Regeln (trade association regulation).
CAS: Chemical Abstracts Service.
CEN: Comité Européen de Normalisation European (Committee for Standardization).
CLP: Classification, Labelling and Packaging of substances and mixtures (REGULATION (EC) No 1272/2008).
DIN: Deutsches Institut für Normung (German institute for standardization).
DMEL: Derived Minimum Effect Level.
DNEL: Derived No Effect Level.
EC: European Community.
EC50: Half maximal effective concentration.
ECHA: European Chemicals Agency.
EG: Europäische Gemeinschaft (European Community).
EINECS: European Inventory of Existing Commercial Chemical Substances.
ELINCS: European List of Notified Chemical Substances.
EN: European Norms.
GHS: Globally Harmonized System of Classification and Labelling of Chemicals.
IATA-DGR: International Air Transport Association - Dangerous Goods Regulations.
IBC: Intermediate Bulk Container.
IC50 / ErC50: Inhibitory concentration, 50 %.
ICAO-TI: International Civil Aviation Organization - Technical Instructions for the Safe Transport of Dangerous Goods by Air.
IMDG: International Maritime Code for Dangerous Goods.
ISO: International Organization for Standardization.
IUPAC: International Union for Pure and Applied Chemistry.
LC50: Lethal concentration, 50 %.
LD50: Lethal dose, 50 %.
log Kow (Pow): Partition coefficient n-octanol/water.
LQ: Limited Quantities.
MARPOL: International Convention for the Prevention of Marine Pollution from Ships.
OECD: Organisation for Economic Co-operation and Development.
PBT: persistent, bioaccumulative and toxic.
PNEC: Predicted No Effect Concentration.
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006).
RID: Règlement concernant le transport International ferroviaire de marchandises Dangereuses (Regulation concerning the International Carriage of Dangerous Goods by Rail).
SVHC: Substances of Very High Concern.
STOT - RE: Specific Target Organ Toxicity - Repeated Exposure.

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STOT - SE: Specific Target Organ Toxicity - Single Exposure.

TRGS: Technische Regel für Gefahrstoffe (technical guideline for the handling of hazardous materials).

UN: Untitled Nations.

VOC: Volatile organic compounds.

vPvB: very persistent and very bioaccumulative.

WGK: Wassergefährdungsklasse (water hazard class).

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.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H411	Toxic 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 information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

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.)