Safety Data Sheet

according to Regulation (EC) No 1907/2006

ARC S7(E) RED Part A

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

1.1. Product identifier

ARC S7(E) RED Part A

UFI: M2AQ-90KH-U00K-ARWA

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

Use of the substance/mixture

Resin for ARC S7(E), when mixed with Part B forms a tough, chemical resistant, sprayable coating.

Uses advised against

No data available

1.3. Details of the supplier of the safety data sheet

Company name:	Chesterton International GmbH	
Street:	Am Lenzenfleck 23	
Place:	D-85737 Ismaning GERMANY	
Telephone:	+49 89 99 65 46 - 0	Telefax: +49 89 99 65 46 - 50
E-mail:	eu-sds@chesterton.com	
Contact person:	eu-sds@chesterton.com	Telephone: +49 89 99 65 46 - 0
E-mail:	eu-sds@chesterton.com	
Internet:	www.chesterton.com	
Responsible Department:	eu-sds@chesterton.com	

1.4. Emergency telephone number:

+49(0) 551 - 1 92 40 (GIZ-Nord, 24h)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Flam. Liq. 3; H226
Skin Irrit. 2; H315
Eye Irrit. 2; H319
Repr. 2; H361d
STOT SE 3; H335
STOT RE 1; H372

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1272/2008

Hazard components for labelling

styrene
Quartz - Crystalline Silica
methacrylic acid; 2-methylpropenoic acid

Signal word: Danger

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Pictograms:



Hazard statements

H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H361d	Suspected of damaging the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.

Precautionary statements

P201	Obtain special instructions before use.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P264	Wash hands thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P403+P235	Store in a well-ventilated place. Keep cool.

Special labelling of certain mixtures

EUH211	Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

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Relevant ingredients

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
100-42-5	styrene			20 - < 25 %
	202-851-5	601-026-00-0	01-2119457861-32	
	Flam. Liq. 3, Repr. 2, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3, STOT RE 1, Asp. Tox. 1, Aquatic Chronic 3; H226 H361d H332 H315 H319 H335 H372 H304 H412			
14808-60-7	Quartz - Crystalline Silica			1 - < 5 %
	238-878-4			
	STOT RE 1; H372			
79-41-4	methacrylic acid; 2-methylpropenoic acid			1 -< 2,5 %
	201-204-4	607-088-00-5	01-2119463884-26	
	Acute Tox. 3, Acute Tox. 4, Acute Tox. 4, Skin Corr. 1A, STOT SE 3; H311 H332 H302 H314 H335			
13463-67-7	titanium dioxide			1 - < 5 %
	236-675-5	022-006-00-2	01-2119489379-17	
	Carc. 2; H351			

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

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
100-42-5	202-851-5	styrene	20 - < 25 %
	inhalation: LC50 = 11,6 mg/l (vapours); inhalation: LC50 = 1,5 mg/l (dusts or mists); dermal: LD50 = > 5000 mg/kg; oral: LD50 = > 5000 mg/kg		
79-41-4	201-204-4	methacrylic acid; 2-methylpropenoic acid	1 -< 2,5 %
	inhalation: LC50 = 7,1 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = 500 mg/kg; oral: LD50 = 1320 mg/kg STOT SE 3; H335: >= 1 - 100		
13463-67-7	236-675-5	titanium dioxide	1 - < 5 %
	oral: LD50 = > 2000 mg/kg		

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After inhalation

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. Immediately call a doctor.

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After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Remove contaminated, saturated clothing immediately. In case of skin irritation, consult a physician.

After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing.

After ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Let 1 glass of water be drunken in little sips (dilution effect).

Do NOT induce vomiting.

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

Causes serious eye damage. Causes skin irritation.

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

First Aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

- Dry extinguishing powder.
- Carbon dioxide (CO2).
- alcohol resistant foam.
- Water spray jet

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Closed containers may burst when pressure and temperature rise

5.3. Advice for firefighters

Co-ordinate fire-fighting measures to the fire surroundings.
In case of fire: Wear self-contained breathing apparatus.
Special protective equipment for firefighters: Protective clothing.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.
Use water spray jet to protect personnel and to cool endangered containers.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Provide adequate ventilation.
Clear spills immediately.
Avoid contact with skin, eyes and clothes.
Safe handling: see section 7

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Personal protection equipment: see section 8

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

For containment

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

For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

6.4. Reference to other sections

Safe handling: see section 7
Personal protection equipment: see section 8
Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Personal protection equipment: see section 8

Keep container tightly closed.
Take action to prevent static discharges. Ground/bond container and receiving equipment.
Use non-sparking tools. Vapours are heavier than air, spread along floors and form explosive mixtures with air.

Advice on protection against fire and explosion

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

Advice on general occupational hygiene

Avoid contact with skin, eyes and clothes. Use protective skin cream before handling the product. Remove contaminated, saturated clothing immediately. When using do not eat, drink, smoke, sniff. Wash hands and face before breaks and after work and take a shower if necessary.

Further information on handling

Avoid dust formation. Do not breathe dust.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place. Keep/Store only in original container.

Hints on joint storage

Keep away from:
- Food and feedingstuffs

Further information on storage conditions

storage temperature: < 24°C

7.3. Specific end use(s)

No information available.

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

CAS No	Substance	ppm	mg/m³	fib/cm³	Category	Origin
79-41-4	Methacrylic acid	20	70		TWA (8 h)	
		40	140		STEL (15 min)	
14808-60-7	Quartz, respirable dust (crystalline silica)	-	0.1		TWA (8 h)	
100-42-5	Styrene	20	85		TWA (8 h)	
		40	170		STEL (15 min)	
13463-67-7	Titanium dioxide, total inhalable dust	-	10		TWA (8 h)	

Biological limit values

CAS No	Substance	Parameter	Value	Test material	Sampling time
100-42-5	Styrene	Mandelic acid plus phenylglyoxylic acid	400 mg/g	Creatinine	End of shift

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DNEL/DMEL values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
100-42-5	styrene			
Worker DNEL, long-term		inhalation	systemic	85 mg/m³
Worker DNEL, acute		inhalation	systemic	289 mg/m³
Worker DNEL, acute		inhalation	local	306 mg/m³
Worker DNEL, long-term		dermal	systemic	406 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	10,2 mg/m³
Consumer DNEL, acute		inhalation	systemic	174,25 mg/m³
Consumer DNEL, acute		inhalation	local	182,75 mg/m³
Consumer DNEL, long-term		dermal	systemic	343 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	2,1 mg/kg bw/day
,				
79-41-4	methacrylic acid; 2-methylpropenoic acid			
Worker DNEL, long-term		inhalation	systemic	39,3 mg/m³
Worker DNEL, long-term		inhalation	local	44 mg/m³
Worker DNEL, long-term		dermal	systemic	4,25 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	11,7 mg/m³
Worker DNEL, long-term		dermal	local	0,38 mg/cm²
Consumer DNEL, long-term		inhalation	local	8,8 mg/m³
Consumer DNEL, long-term		dermal	systemic	5,35 mg/kg bw/day
Consumer DNEL, long-term		dermal	local	0,23 mg/cm²
Consumer DNEL, long-term		oral	systemic	5,35 mg/kg bw/day
13463-67-7	titanium dioxide			
Worker DNEL, long-term		inhalation	local	1,25 mg/m³
Consumer DNEL, long-term		oral	systemic	700 mg/kg bw/day

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PNEC values

CAS No	Substance
Environmental compartment	Value
100-42-5	styrene
Freshwater	0,028 mg/l
Freshwater (intermittent releases)	0,04 mg/l
Marine water	0,014 mg/l
Freshwater sediment	0,614 mg/kg
Marine sediment	0,307 mg/kg
Micro-organisms in sewage treatment plants (STP)	5 mg/l
Soil	0,2 mg/kg
79-41-4	methacrylic acid; 2-methylpropenoic acid
Freshwater	0,82 mg/l
Freshwater (intermittent releases)	0,45 mg/l
Marine water	0,082 mg/l
Freshwater sediment	3,09 mg/kg
Marine sediment	0,309 mg/kg
Micro-organisms in sewage treatment plants (STP)	100 mg/l
Soil	0,137 mg/kg

8.2. Exposure controls

Appropriate engineering controls

Provide adequate ventilation as well as local exhaustion at critical locations.

Individual protection measures, such as personal protective equipment

Eye/face protection

Suitable eye protection:
- Eye glasses with side protection
- goggles

Hand protection

Tested protective gloves must be worn: EN ISO 374
NBR (Nitrile rubber), Butyl caoutchouc (butyl rubber), PVC (polyvinyl chloride),
Wearing time with permanent contact: Thickness of the glove material: >= 0,4 mm, Breakthrough time: >480 min
Wearing time with occasional contact (splashes): Thickness of the glove material: >= 0,1 mm, Breakthrough time: > 30 min
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.

Skin protection

For the protection against direct skin contact, body protective clothing is essential (in addition to the usual

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working clothes).

Respiratory protection

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.
Combination filtering device A-P3
Self-contained respirator (breathing apparatus)

Thermal hazards

No data available

Environmental exposure controls

Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Paste
Colour:	red
Odour:	characteristic
Odour threshold:	0,14 ppm

		Test method
Melting point/freezing point:	No data available	
Boiling point or initial boiling point and boiling range:	145 °C	
Flammability:	No information available.	
Lower explosion limits:	0,9 vol. %	
Upper explosion limits:	6,8 vol. %	
Flash point:	31 °C	
Auto-ignition temperature:	No data available	
Decomposition temperature:	490 °C	
pH-Value:	No data available	
Viscosity / kinematic: (at 20 °C)	> 20,5 mm²/s	
Water solubility:	practically insoluble	
Solubility in other solvents		
No information available.		
Partition coefficient n-octanol/water:	< 1	
Vapour pressure: (at 20 °C)	5,999 hPa	
Vapour pressure:	No data available	
Relative density:	1,55 kg/l	
Bulk density:	No data available	
Relative vapour density:	> 1	(Air=1)

9.2. Other information

Information with regard to physical hazard classes

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Explosive properties

No information available.

Self-ignition temperature

Solid:	No information available.
Gas:	No information available.

Oxidizing properties

No information available.

Other safety characteristics

Evaporation rate:	< 1 (Ether=1)
Solvent separation test:	No information available.
Sublimation point:	No data available
Softening point:	No data available
Pour point:	No data available
	No data available
Viscosity / dynamic: (at 20 °C)	26000 mPa·s
Flow time:	No data available

Further Information

No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is stable under storage at normal ambient temperatures.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Elevated temperatures can cause hazardous polymerization. Vapors may polymerize to cause plugs in vents and relief devices.

10.4. Conditions to avoid

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

10.5. Incompatible materials

Strong acid, Oxidising agent, strong, Chlorine, Oxygen

10.6. Hazardous decomposition products

Carbon monoxide, Gases/vapours, toxic

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Based on available data, the classification criteria are not met.

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ATEmix calculated

ATE (oral) 64140 mg/kg; ATE (dermal) 24295 mg/kg; ATE (inhalation vapour) 46,87 mg/l; ATE (inhalation dust/mist) 6,088 mg/l

CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
100-42-5	styrene					
	oral	LD50 mg/kg	> 5000	Rat	AMA Arch Ind Health 14: 387-398 (1956)	Different single doses of styrene were a
	dermal	LD50 mg/kg	> 5000	Rat	Study report (2005)	OECD Guideline 402
	inhalation (4 h) vapour	LC50	11,6 mg/l	Rat		
	inhalation (4 h) dust/mist	LC50	1,5 mg/l			
79-41-4	methacrylic acid; 2-methylpropenoic acid					
	oral	LD50 mg/kg	1320	Rat	Study report (1977)	OECD Guideline 401
	dermal	LD50 mg/kg	500	Rabbit		
	inhalation (4 h) vapour	LC50	7,1 mg/l	Rat		
	inhalation dust/mist	ATE	1,5 mg/l			
13463-67-7	titanium dioxide					
	oral	LD50 mg/kg	> 2000	Rat	Study report (1996)	OECD Guideline 401

Irritation and corrosivity

Causes skin irritation.

Causes serious eye irritation.

Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Suspected of damaging the unborn child. (styrene)

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

STOT-single exposure

May cause respiratory irritation. (styrene; methacrylic acid; 2-methylpropenoic acid)

STOT-repeated exposure

Causes damage to organs through prolonged or repeated exposure. (styrene)

Aspiration hazard

Based on available data, the classification criteria are not met.

11.2. Information on other hazards

Endocrine disrupting properties

No data available

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SECTION 12: Ecological information

12.1. Toxicity

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CAS No	Chemical name						
	Aquatic toxicity	Dose		[h] | [d]	Species	Source	Method
100-42-5	styrene						
	Acute fish toxicity	LC50	10 mg/l	96 h	Pimephales promelas	REACh Registration Dossier	OECD Guideline 203
	Acute algae toxicity	ErC50	4,9 mg/l	72 h	Raphidocelis subcapitata	REACh Registration Dossier	EPA OTS 797.1050
	Acute crustacea toxicity	EC50	4,7 mg/l	48 h	Daphnia magna	Ecotoxicology and environemtal safety 37	OECD Guideline 202
	Crustacea toxicity	NOEC	1,01 mg/l	21 d	Daphnia magna	REACh Registration Dossier	OECD Guideline 211
	Acute bacteria toxicity	EC50	ca. 500 mg/l ( )	0,5 h	activated sludge of a predominantly domestic sewag	Institute for Health and Consumer Protec	OECD Guideline 209
79-41-4	methacrylic acid; 2-methylpropenoic acid						
	Acute fish toxicity	LC50	85 mg/l	96 h	Oncorhynchus mykiss	REACh Registration Dossier	EPA OTS 797.1400
	Acute algae toxicity	ErC50	45 mg/l	72 h	Raphidocelis subcapitata	REACh Registration Dossier	OECD Guideline 201
	Acute crustacea toxicity	EC50	> 130 mg/l	48 h	Daphnia magna	REACh Registration Dossier	EPA OTS 797.1300
	Fish toxicity	NOEC	10 mg/l	35 d	Danio rerio	REACh Registration Dossier	OECD Guideline 210
	Crustacea toxicity	NOEC	53 mg/l	21 d	Daphnia magna	REACh Registration Dossier	OECD Guideline 211
	Acute bacteria toxicity	EC50	13500 mg/l ( )	3 h	Activated sludge	Publication (2008)	ISO 8192
13463-67-7	titanium dioxide						
	Acute fish toxicity	LC50	> 100 mg/l	96 h	Carassius auratus	REACh Registration Dossier	OECD Guideline 203
	Acute algae toxicity	ErC50	> 50 mg/l	72 h	Raphidocelis subcapitata	REACh Registration Dossier	OECD Guideline 201
	Acute crustacea toxicity	EC50	> 100 mg/l	48 h	Artemia salina	REACh Registration Dossier	OECD Guideline 202

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	Fish toxicity	NOEC >= 80 mg/l	6 d	Danio rerio	REACh Registration Dossier	OECD TG 210
	Algae toxicity	NOEC >= 1 mg/l	32 d	Synedra ulna, Scenedesmus quadricauda, Stigeocloni	Environ. Tox. Chem. 31, 2414-2422 (2012)	In this study, the authors report the re
	Crustacea toxicity	NOEC > 1 mg/l	10 d	Chironomus riparius	REACh Registration Dossier	other: OECD Guideline 219
	Acute bacteria toxicity	EC50 > 1000 mg/l ( )	3 h	activated sludge, domestic	REACh Registration Dossier	OECD Guideline 209

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
100-42-5	styrene	2,96
79-41-4	methacrylic acid; 2-methylpropenoic acid	0,93

BCF

CAS No	Chemical name	BCF	Species	Source
100-42-5	styrene	74	calculated from log Kow	REACh Registration D
13463-67-7	titanium dioxide	> 0,47 - < 3,19	Artemia salina	REACh Registration D

12.4. Mobility in soil

No information available.

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. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Dispose of waste according to applicable legislation.

Contaminated packaging

Non-contaminated packages may be recycled. Dispose of waste according to applicable legislation.

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SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number:	UN 1866
14.2. UN proper shipping name:	RESIN SOLUTION
14.3. Transport hazard class(es):	3
14.4. Packing group:	III
Hazard label:	3
Classification code:	F1
Special Provisions:	640E
Limited quantity:	5 L
Excepted quantity:	E1
Transport category:	3
Hazard No:	30
Tunnel restriction code:	D/E

Inland waterways transport (ADN)

14.1. UN number or ID number:	UN 1866
14.2. UN proper shipping name:	Resin solution
14.3. Transport hazard class(es):	3
14.4. Packing group:	III
Hazard label:	3
Classification code:	F1
Limited quantity:	5 L
Excepted quantity:	E1

Marine transport (IMDG)

14.1. UN number or ID number:	UN 1866
14.2. UN proper shipping name:	RESIN SOLUTION
14.3. Transport hazard class(es):	3
14.4. Packing group:	III
Hazard label:	3
Special Provisions:	223, 955
Limited quantity:	5 L
Excepted quantity:	E1
EmS:	F-E, S-E

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number:	UN 1866
14.2. UN proper shipping name:	RESIN SOLUTION
14.3. Transport hazard class(es):	3
14.4. Packing group:	III
Hazard label:	3
Special Provisions:	A3
Limited quantity Passenger:	10 L
Passenger LQ:	Y344
Excepted quantity:	E1

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IATA-packing instructions - Passenger:	355
IATA-max. quantity - Passenger:	60 L
IATA-packing instructions - Cargo:	366
IATA-max. quantity - Cargo:	220 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

No information available.

14.7. Maritime transport in bulk according to IMO instruments

No information available.

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

Directive 2004/42/EC on VOC in paints and varnishes:	0,19 kg/l
Information according to Directive 2012/18/EU (SEVESO III):	P5a FLAMMABLE LIQUIDS

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. Observe employment restrictions for women of child-bearing age.
Water hazard class (D):	2 - obviously hazardous to water

Additional information

Minimum protective measures according to TRGS 500

15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:
styrene
methacrylic acid; 2-methylpropenoic acid
titanium dioxide

SECTION 16: Other information

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Abbreviations and acronyms

Flam. Liq: Flammable liquid
Acute Tox: Acute toxicity
Asp. Tox: Aspiration hazard
Skin Corr: Skin corrosion
Skin Irrit: Skin irritation
Eye Irrit: Eye irritation
Carc: Carcinogenicity
Repr: Reproductive toxicity
STOT SE: Specific target organ toxicity - single exposure
STOT RE: Specific target organ toxicity - repeated exposure
Aquatic Chronic: Chronic aquatic hazard
ADR: Accord européen sur le transport des marchandises dangereuses par Route
(European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID:Règlement international conernat le transport des marchandises dangereuses par chemin de fer
(Regulations Concerning the International Transport of Dangerous Goods by Rail)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Refulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organization
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
CAS: Chemical Abstracts Service (division of the American Chemical Society)
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
CLP: Regulation on Classification, Labelling and Packaging of Substances and Mixtures,
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
EC50: Effectice concentration, 50 percent
DNEL: Derived No Effect Level
PNEC: Predicted No Effect Concentration
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative

Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

Classification	Classification procedure
Flam. Liq. 3; H226	On basis of test data
Skin Irrit. 2; H315	Calculation method
Eye Irrit. 2; H319	Calculation method
Repr. 2; H361d	Calculation method
STOT SE 3; H335	Calculation method
STOT RE 1; H372	Calculation method

Relevant H and EUH statements (number and full text)

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.

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H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H361d	Suspected of damaging the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.
EUH211	Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

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 relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)

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