

## SAFETY DATA SHEET

Based upon Regulation (EC) No 1907/2006, as amended by Regulation (EU) No 2015/830

## **Metal Plastic Extra Fine**

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

1.1. Product identifier

Product name : Metal Plastic Extra Fine
Registration number REACH : Not applicable (mixture)

Product type REACH : Mixture

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

## 1.2.1 Relevant identified uses

Sealant

### 1.2.2 Uses advised against

No uses advised against known

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

### Supplier of the safety data sheet

SOUDAL N.V. Everdongenlaan 18-20 B-2300 Turnhout ☎ +32 14 42 42 31 □ +32 14 42 65 14 msds@soudal.com

#### Manufacturer of the product

SOUDAL N.V. Everdongenlaan 18-20 B-2300 Turnhout \$\mathbf{T}\$ +32 14 42 42 31 \$\mathbf{L}\$ +32 14 42 65 14 msds@soudal.com

#### 1.4. Emergency telephone number

24h/24h (Telephone advice: English, French, German, Dutch): +32 14 58 45 45 (BIG)

## SECTION 2: Hazards identification

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

Classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

Class	Category	Hazard statements
Flam. Liq.	categ <mark>ory 3</mark>	H226: Flammable liquid and vapour.
Repr.	category 2	H361d: Suspected of damaging the unborn child.
STOT RE	category 1	H372: Causes damage to organs (ears (hearing damage)) through prolonged or repeated exposure if inhaled.
Eye Irrit.	category 2	H319: Causes serious eye irritation.
Skin Irrit.	category 2	H315: Causes skin irritation.

#### 2.2. Label elements





Danger



Contains: styrene.

Signal word

H-statements

H226 H361d

H372

H319

Flammable liquid and vapour.

Suspected of damaging the unborn child.

Causes damage to organs (ears (hearing damage)) through prolonged or repeated exposure if inhaled.

Causes serious eye irritation.

Causes skin irritation.

H315 P-statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

Created by: Brandweerinformatiecentrum voor gevaarlijke stoffen vzw (BIG) Technische Schoolstraat 43 A, B-2440 Geel

http://www.big.be

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Reason for revision: 2;3 Revision number: 0301 Publication date: 2001-06-14 Date of revision: 2017-02-13

134-15960-542-6

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P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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

P260 Do not breathe vapours/mist.

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

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

rinsing

P308 + P313 IF exposed or concerned: Get medical advice/attention.

P501 Dispose of contents/container in accordance with local/regional/national/international regulation.

#### 2.3. Other hazards

No other hazards known

## SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name REACH Registration No	CAS No EC No	Conc. (C)	Classification according to CLP	Note	Remark
styrene	100-42-5 202-851-5		Flam. Liq. 3; H226 Repr. 2; H361d STOT RE 1; H372 Acute Tox. 4; H332 Eye Irrit. 2; H319 Skin Irrit. 2; H315	(1)(2)(10)	Constituent

<sup>(1)</sup> For H-statements in full: see heading 16

- (2) Substance with a Community workplace exposure limit
- (10) Subject to restrictions of Annex XVII of Regulation (EC) No. 1907/2006

## SECTION 4: First aid measures

#### 4.1. Description of first aid measures

General:

If you feel unwell, seek medical advice.

After inhalation:

Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

After skin contact:

Wash immediately with lots of water. Soap may be used. Take victim to a doctor if irritation persists.

After eye contact:

Rinse immediately with plenty of water. Take victim to an ophthalmologist if irritation persists.

After ingestion:

Rinse mouth with water. Consult a doctor/medical service if you feel unwell.

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

4.2.1 Acute symptoms

After inhalation:

ON CONTINUOUS EXPOSURE/CONTACT: Headache. Nausea.

After skin contact:

Tingling/irritation of the skin.

After eye contact:

Irritation of the eye tissue.

After ingestion:

Nausea

4.2.2 Delayed symptoms

No effects known.

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

If applicable and available it will be listed below.

## SECTION 5: Firefighting measures

## 5.1. Extinguishing media

5.1.1 Suitable extinguishing media:

Polyvalent foam. ABC powder. Carbon dioxide.

5.1.2 Unsuitable extinguishing media:

No unsuitable extinguishing media known.

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

Upon combustion: CO and CO2 are formed.

### 5.3. Advice for firefighters

5.3.1 Instructions:

No specific fire-fighting instructions required.

5.3.2 Special protective equipment for fire-fighters:

Gloves. Safety glasses. Protective clothing. Heat/fire exposure: compressed air/oxygen apparatus.

## SECTION 6: Accidental release measures

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

Stop engines and no smoking. No naked flames or sparks. Spark- and explosion proof appliances and lighting equipment.

6.1.1 Protective equipment for non-emergency personnel

See heading 8.2

#### 6.1.2 Protective equipment for emergency responders

Gloves. Safety glasses. Protective clothing.

Suitable protective clothing

See heading 8.2

#### 6.2. Environmental precautions

Contain released product. Dam up the liquid spill. Use appropriate containment to avoid environmental contamination. Prevent spreading in sewers.

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

Take up liquid spill into inert absorbent material. Scoop absorbed substance into closing containers. Carefully collect the spill/leftovers. Clean contaminated surfaces with an excess of water. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling.

#### 6.4. Reference to other sections

See heading 13.

## SECTION 7: Handling and storage

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

### 7.1. Precautions for safe handling

Keep away from naked flames/heat. Insufficient ventilation: keep naked flames/sparks away. Insufficient ventilation: use spark-/explosionproof appliances and lighting system. Insufficient ventilation: take precautions against electrostatic charges. Gas/vapour heavier than air at 20°C. Observe strict hygiene. Keep container tightly closed. Remove contaminated clothing immediately. Do not discharge the waste into the drain.

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

#### 7.2.1 Safe storage requirements:

Store at room temperature. Meet the legal requirements. Max. storage time: 1 year(s).

#### 7.2.2 Keep away from:

Heat sources, ignition sources.

#### 7.2.3 Suitable packaging material:

Tin.

## 7.2.4 Non suitable packaging material:

No data available

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

If applicable and available, exposure scenarios are attached in annex. See information supplied by the manufacturer.

## SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

## 8.1.1 Occupational exposure

## a) Occupational exposure limit values

If limit values are applicable and available these will be listed below.

3el	g	İι	ır	n	

Styrène (monomère)	Time-weighted average exposure li	imit 8 h	25 ppm
	Time-weighted average exposure li	imit 8 h	108 mg/m³
	Short time value		50 ppm
	Short time value		216 mg/m³
			•

#### The Netherlands

Styreen	Time-weighted average exposure limit 8 h (Private occupational exposure limit value)	25 ppm
	rime-weighted average exposure limit 8 h (Private occupational exposure limit value)	107 mg/m³

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Styrène			Time-weighted average réglementaire indicative		aleur non	50 ppm
			Time-weighted average		aleur non	215 mg/r
			réglementaire indicative	2)		
Germany						
Styrol				exposure limit 8 h (TRGS		20 ppm
			Time-weighted average	exposure limit 8 h (TRGS	900)	86 mg/m
UK						
Styrene			Time-weighted average	exposure limit 8 h (Work	place exposure lim	it 100 ppm
			(EH40/2005))	exposure limit 8 h (Work	nlace evnosure lim	it 430 mg/r
			(EH40/2005))	exposure illilit o il (work	place exposure iiii	110 430 111g/1
			Short time value (Workp			250 ppm
			Short time value (Workp	place exposure limit (EH4	0/2005))	1080 mg
USA (TLV-ACGIH)						
Styrene, monomer			Time-weighted average		Adopted Value)	20 ppm
			Short time value (TLV - A	Adopted Value)		40 ppm
b) National biological limit						
If limit values are applicable	and available	e these will be listed b	elow.			
Germany		1			1	
Styrol (Mandelsäure plus			osition: nach mehreren	600 mg/g Kreatini	n 11/2012 Ständige Prüfung gesundh	e Senatskomn
Phenylglyoxylsäure)		vorangegangenen sch expositionsende, bzw			Arbeitsstoffe der	
USA (BEI-ACGIH)					1	
Styrene (Mandelic acid plus		Urine: end of shift		400 mg/g		
phenylglyoxylic acid)		Orane. end or smit		creatinine		
Styrene (Styrene)		Urine: end of shift		40 μg/L		
.2 Sampling methods						
If applicable and available it		below.	OCITA	1014		
Styrene (Diffusive Samplers Styrene (organic and inorga	,	Extractive ETIP)	OSHA NIOSH	1014 3800		
Styrene (Phenylethylene) (H			NIOSH	1501		
Styrene	17 41 0 041 2 0 110	, a. o acie,	NON	37		
Styrene			OSHA	89		
Styrene			OSHA			
				9		
It limit values are applicable		substance or mixture	e as intended	9		
If limit values are applicable  .4 DNEL/PNEC values			e as intended	9		
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If applicable and available it will be listed below.

#### 8.2. Exposure controls

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

#### 8.2.1 Appropriate engineering controls

Keep away from naked flames/heat. Insufficient ventilation: keep naked flames/sparks away. Insufficient ventilation: use spark-/explosionproof appliances and lighting system. Insufficient ventilation: take precautions against electrostatic charges. Measure the concentration in the air regularly. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.

#### 8.2.2 Individual protection measures, such as personal protective equipment

Observe strict hygiene. Keep container tightly closed. Do not eat, drink or smoke during work.

#### a) Respiratory protection:

Wear gas mask with filter type A if conc. in air > exposure limit.

#### b) Hand protection:

Gloves.

#### c) Eye protection:

Safety glasses.

#### d) Skin protection:

Protective clothing.

## 8.2.3 Environmental exposure controls:

See headings 6.2, 6.3 and 13

## SECTION 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

Physical form		Viscous					
Odour		Solvent-like odour					
Odour threshold		data available					
Colour		Variable in colour, depending on the composition					
Particle size		No data available					
Explosion limits		1.1 - 6.1 vol %					
Flammability		Flammable liquid and vapour.					
Log Kow		Not applicable (mixture)					
Dynamic viscosity		No data available					
Kinematic viscosity		No data available					
Melting point		No data available					
Boiling point		No data available					
Flash point		34 °C					
Evaporation rate		No data available					
Relative vapour density		>1					
Vapour pressure		5 hPa ; 20 °C					
Solubility		water; insoluble					
Relative density		1.9					
Decomposition tempera	ture	No data available					
Auto-ignition temperatu	re	No data available					
Explosive properties		No chemical group associated with explosive properties					
Oxidising properties		No chemical group associated with oxidising properties					
рН		No data available					

#### 9.2. Other information

Absolute density	1900 kg/m <sup>3</sup>		

## SECTION 10: Stability and reactivity

#### 10.1. Reactivity

May be ignited by sparks.

#### 10.2. Chemical stability

Stable under normal conditions.

## 10.3. Possibility of hazardous reactions

No data available.

## 10.4. Conditions to avoid

Keep away from naked flames/heat. Insufficient ventilation: keep naked flames/sparks away. Insufficient ventilation: use spark-/explosionproof appliances and lighting system. Insufficient ventilation: take precautions against electrostatic charges.

#### 10.5. Incompatible materials

No data available.

### 10.6. Hazardous decomposition products

Reason for revision: 2;3 Publication date: 2001-06-14
Date of revision: 2017-02-13

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Upon combustion: CO and CO2 are formed.

## SECTION 11: Toxicological information

## 11.1. Information on toxicological effects

11.1.1 Test results

#### Acute toxicity

#### Metal Plastic Extra Fine

No (test)data on the mixture available

styrene

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value	Remark
						determination	
Oral	LD50		> 6000 mg/kg bw		Rat (male)	Weight of evidence	
Oral	LD50		> 6000 mg/kg bw		Hamster (male)	Experimental value	
Dermal	LD50	OECD 402	> 2000 mg/kg bw	24 h	Rat (male/female)	Experimental value	
Inhalation (vapours)	LC50		11.8 mg/l air	4 h	Rat	Inconclusive,	
						insufficient data	
Inhalation (vapours)	LC50		21 mg/l air	2 h	Mouse	Inconclusive,	
						insufficient data	

Judgement is based on the relevant ingredients

#### Conclusion

Not classified for acute toxicity

#### Corrosion/irritation

#### Metal Plastic Extra Fine

No (test)data on the mixture available

styrene

Route of exposure	Result	Method	Exposure time	Time point		Remark
					determination	
Eye	Irritatin <mark>g;</mark>				Annex VI	
	category 2					
Skin	Irritatin <mark>g;</mark>				Annex VI	
	category 2					

Classification is based on the relevant ingredients

## Conclusion

Causes skin irritation.

Causes serious eye irritation.

Not classified as irritating to the respiratory system

### Respiratory or skin sensitisation

Metal Plastic Extra Fine

No (test)data on the mixture available

styrene

 <del>,</del>							
Route of exposure	Result	Method	Exposure time	Observation time	Species	Value determination	Remark
				point			
Skin	Not sens <mark>itizing</mark>			24 hours	Guinea pig (male)	Inconclusive,	
						insufficient data	

Judgement is based on the relevant ingredients

### Conclusion

Not classified as sensitizing for inhalation

Not classified as sensitizing for skin

#### Specific target organ toxicity

Metal Plastic Extra Fine

No (test)data on the mixture available

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Route of exposure	Parame	eter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
Oral (stomach tube)	NOAEL			1000 mg/kg bw/day		No effect	(-)	Rat (male/female)	Experimental value
Oral (stomach tube)	LOAEL			2000 mg/kg bw/day	Liver	Histopathology	78 week(s) - 103 week(s)	Rat (male/female)	Experimental value
tube)	NOAEL system effects	ic		150 mg/kg bw/day		No adverse systemic effects	78 week(s)	Mouse (male/female)	Experimental value
	LOAEL system effects	ic		300 mg/kg bw/day	Liver	Histopathology	78 week(s)	Mouse (male/female)	Experimental value
Oral (stomach tube)	NOAEL		Subacute toxicity test	10 mg/kg bw/day		No effect	5 day(s)	Mouse (male)	Experimental value
Inhalation (vapours)	NOAEC		Subchronic toxicity test	0.85 mg/l air	Nose		(- / / / -	Rat (male/female)	Experimental value
Inhalation (vapours)	NOAEC		Subchronic toxicity test	2.13 mg/l air	General		13 weeks (6h/day, 5 days/week)	Rat (male/female)	Experimental value
Inhalation (vapours)	LOAEC effects	local	Equivalent to OECD 453	0.21 mg/l air	Nose		104 weeks (6h/day, 5 days/week)	Rat (male/female)	Experimental value
Inhalation (vapours)	NOAEC		Equivalent to OECD 412	1.296 mg/l air			4 weeks (6h/day, 5 days/week)	Rat (male)	Experimental value
Inhalation (vapours)	NOAEC		Subacute toxicity test	3.47 mg/l air			4 weeks (6h/day, 5 days/week)	Rat (male)	Experimental value
Inhalation (vapours)	NOAEC		Subchronic toxicity test	2.13 mg/l air	Auditory organs		4 weeks (6h/day, 5 days/week)	Rat (male)	Experimental value

Classification is based on the relevant ingredients

#### Conclusion

Causes damage to organs (ears (hearing damage)) through prolonged or repeated exposure if inhaled.

Not classified as sub-chronically toxic in contact with skin

Not classified as sub-chronically toxic if swallowed

## Mutagenicity (in vitro)

## Metal Plastic Extra Fine

No (test)data on the mixture available

## <u>styrene</u>

Result	Method	Test substrate	Effect	Value determination
Negative	Equivalent to OECD 471	Bacteria (S.typhimurium)		Experimental value
Positive	Equivalent to OECD 473	Human lymphocytes		Experimental value
Positive	Equivalent to OECD 471	Bacteria (S.typhimurium)		Experimental value
Positive	Equivalent to OECD 479	Human lymphocytes		Experimental value

## Mutagenicity (in vivo)

## Metal Plastic Extra Fine

No (test)data on the mixture available

#### styrene

Result	Method	Exposure time	Test substrate	Organ	Value determination
Negative	OECD 474	21 days (6h/day)	Mouse (male)	Bone marrow	Experimental value
Negative	OECD 486	6 h	Mouse (female)	Liver	Experimental value

Classification is based on the relevant ingredients

#### Conclusion

Not classified for mutagenic or genotoxic toxicity

### Carcinogenicity

## Metal Plastic Extra Fine

No (test)data on the mixture available

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<u>tyrene</u>							_	
Route of exposure	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Inhalation (vapours)	LOAEC	Equivalent to OECD 453	0.09 mg/l air	98 weeks (6h/day, 5 days/week)	Mouse (female)	Carcinogenicity	Respiratory tract	Experimental value
Inhalation (vapours)	NOAEC	Equivalent to OECD 453	0.09 mg/l air	104 weeks (6h/day, 5 days/week)	Mouse (male)	No carcinogenic effect	Respiratory tract	Experimental value
Inhalation (vapours)	LOAEC	Equivalent to OECD 453	0.18 mg/l air	104 weeks (6h/day, 5 days/week)	Mouse (male)	Carcinogenicity	Respiratory tract	Experimental value
Inhalation (vapours)	NOAEC	Equivalent to OECD 453	≥ 4.34 mg/l air	104 weeks (6h/day, 5 days/week)	Rat (male/female)	No carcinogenic effect		Experimental value
Oral	NOAEL	Carcinogenic toxicity study	≥ 2000 mg/kg bw/day	78 week(s) - 103 week(s)	Rat (male/female)	No carcinogenic effect		Experimental value

Classification is based on the relevant ingredients

Conclusion

Not classified for carcinogenicity

### Reproductive toxicity

Metal Plastic Extra Fine

No (test)data on the mixture available

styrene

<u>rrene</u>								
	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity	NOAEC	Developmental toxicity study	0.21 mg/l air	111 days (6h/day)	Rat	No effect	Foetus	Experimental value
	NOAEC	Developmental toxicity study	J.	111 days (6h/day)	Rat	Litter weights	Foetus	Experimental value
	NOAEC	OECD 414	≥ 2.556 mg/l air	(7h/day)	Rat	No effect		Experimental value
	NOAEC	Equivalent to OECD 414	≥ 2.556 mg/l air	13 days (7h/day)	Rabbit	No effect		Experimental value
	NOAEC	Developmental toxicity study	1.08 mg/l air	20 days (6h/day) - 27 days (6h/day)	Rat	No effect		Experimental value
	LOAEC	Developmental toxicity study	2.146 mg/l air	20 days (6h/day) - 27 days (6h/day)	Rat	Mortality		Experimental value
	NOAEL	Developmental toxicity study	≥ 300 mg/kg bw/day	10 day(s)	Rat	No effect	Foetus	Experimental value
Maternal toxicity	NOAEC	Other	≥ 2.13 mg/l air	111 days (6h/day)	Rat	No effect		Experimental value
	LOAEL	Other	180 mg/kg bw/day	10 day(s)	Rat	Histopathology		Experimental value
	LOAEC	Equivalent to OECD 414	1.278 mg/l air	10 days (7h/day)	Rat	Reduced body weight and food consumption	General	Experimental value
	NOAEC	Equivalent to OECD 414	≥ 2.556 mg/l air	· 13 days (7h/day)	Rabbit	No effect		Experimental value
	NOAEC	Other	1.08 mg/l air	20 days (6h/day) - 27 days (6h/day)	Rat	No effect		Experimental value
	LOAEC	Other	2.146 mg/l air	20 days (6h/day) - 27 days (6h/day)	Rat	Reduced body weight and food consumption	General	Experimental value
Effects on fertility	NOAEC (P)	OECD 416	0.64 mg/l air	70 days (6h/day)	Rat (male/female)	No effect		Experimental value
	LOAEC	OECD 416	2.13 mg/l air	70 days (6h/day)	Rat (male/female)	Histopathology	Nose	Experimental value

Classification is based on the relevant ingredients

Conclusion

Suspected of damaging the unborn child.

Toxicity other effects

Metal Plastic Extra Fine

No (test)data on the mixture available

Chronic effects from short and long-term exposure

Metal Plastic Extra Fine

ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Dry skin. Auditory disturbances.

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## SECTION 12: Ecological information

## 12.1. Toxicity

Metal Plastic Extra Fine

No (test)data on the mixture available

styrene

		Parameter	Method	Value		Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes		LC50	OECD 203	10 mg/l	96 h		Flow-through system	Fresh water	Experimental value; GLP
Acute toxicity crustacea		EC50	OECD 202	4.7 mg/l	48 h	Daphnia magna	Flow-through system	Fresh water	Experimental value; GLP
Toxicity algae and other aqua plants	tic	ErC50	EPA OTS 797.1050	4.9 mg/l	72 h	Pseudokirchnerie lla subcapitata	Static system	Fresh water	Experimental value; GLP
Long-term toxicity aquatic crustacea		NOEC	OECD 211	1.01 mg/l	21 day(s)		Semi-static system	Fresh water	Experimental value; GLP
Toxicity aquatic micro- organisms		EC50		5.4 mg/l	5 minutes	Photobacterium phosphoreum	Static system	Salt water	Experimental value; Nominal concentration
		EC50	OECD 209	500 mg/l	30 minutes	Activated sludge	Static system	Fresh water	Experimental value; Nominal concentration

Value

Duration

Species

Eisenia fetida

Value determination

Experimental value

Method LC50 OECD 207 120 mg/kg soil dw Toxicity soil macro-organisms 14 day(s) Judgement is based on the relevant ingredients

Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008

Parameter

## 12.2. Persistence and degradability

styrene

**Biodegradation water** 

Method	Value	Duration	Value determination
OECD 301D: Closed Bottle Tes	st 87 %	20 day(s)	Experimental value
ISO 9408	70.9 % - 100 %; GL	P 28 day(s)	Experimental value
Phototransformation water (D)	T50 water)		

Method Value Conc. OH-radicals Value determination 237 day(s) Experimental value Biodegradation soil Method

Value Duration Value determination 16 % - 62 % 33 day(s) Experimental value Half-life air (t1/2 air)

Method	Value		Primary degradation/mineralisation	Value determination
	12.7 h	1	Primary degradation	Experimental value

#### Conclusion

Contains readily biodegradable component(s)

### 12.3. Bioaccumulative potential

Metal Plastic Extra Fine

Log Kow

ĺ	Method	Remark	Value	Temperature	Value determination
		Not applicable (mixture)			

#### styrene

BCF fishes

Parameter	Method	Value	Duration	Species	Value determination
BCF		35.5		Carassius auratus	Literature study

Log Kow

Method	Remark	Value	Temperature	Value determination
OECD 107		<mark>2.96</mark>	25 °C	Experimental value

Does not contain bioaccumulative component(s)

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### 12.4. Mobility in soil

#### styrene

(log) Koc

Parameter		Method		Value	Value determination
log Koc				2.55	Estimated value

Volatility (Henry's Law constant H)

Value	Method	Temperature	Remark	Value determination
195 Pa.m³/mol		<mark>20 ℃</mark>		Experimental value

Percent distribution

Method	Fraction air		Fraction sediment	Fraction soil	Fraction water	Value determination
Mackay level I	98.6 %	0 %	0.09 %	0.09 %	1.21 %	Calculated value

#### Conclusion

Contains component(s) with potential for mobility in the soil

### 12.5. Results of PBT and vPvB assessment

Does not contain component(s) that meet(s) the criteria of PBT and/or vPvB as listed in Annex XIII of Regulation (EC) No 1907/2006.

#### 12.6. Other adverse effects

#### Metal Plastic Extra Fine

Fluorinated greenhouse gases (Regulation (EU) No 517/2014)

None of the known components is included in the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014)

#### Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009)

styrene

Ground water

Ground water pollutant

## **SECTION 13: Disposal considerations**

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

#### 13.1. Waste treatment methods

## 13.1.1 Provisions relating to waste

### **European Union**

Hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No 1357/2014.

Waste material code (Directive 2008/98/EC, Decision 2000/0532/EC).

08 04 09\* (wastes from MFSU of adhesives and sealants (including waterproofing products): waste adhesives and sealants containing organic solvents or other hazardous substances). Depending on branch of industry and production process, also other waste codes may be applicable.

#### 13.1.2 Disposal methods

Incinerate under surveillance with energy recovery. Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Do not discharge into drains or the environment.

#### 13.1.3 Packaging/Container

#### **European Union**

Waste material code packaging (Directive 2008/98/EC).

15 01 10\* (packaging containing residues of or contaminated by dangerous substances).

## SECTION 14: Transport information

#### Road (ADR) 14.1. UN number UN number 3269 14.2. UN proper shipping name Polyester resin kit Proper shipping name 14.3. Transport hazard class(es) Hazard identification number Classification code F3 14.4. Packing group Packing group IIII 14.5. Environmental hazards Environmentally hazardous substance mark no 14.6. Special precautions for user 236 Special provisions Reason for revision: 2;3 Publication date: 2001-06-14

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Special provisions		340
Limited quantities		Combination packagings: not more than 5 liters per inner packaging for
·		liquids. A package shall not weigh more than 30 kg. (gross mass)
Rail (RID)		
14.1. UN number		
UN number		3269
14.2. UN proper shipping na	ame	5-55
Proper shipping name	The state of the s	Polyester resin kit
14.3. Transport hazard class	(es)	- Officer resulting
Hazard identification nu		30
Class		3
Classification code		F3
14.4. Packing group		
Packing group		
Labels		3
14.5. Environmental hazard	S	
Environmentally hazard	ous substance mark	no
14.6. Special precautions fo		
Special provisions		236
Special provisions		340
Limited quantities		Combination packagings: not more than 5 liters per inner packaging for
		liquids. A package shall not weigh more than 30 kg. (gross mass)
(0.001)		
Inland waterways (ADN)		
14.1. UN number		
UN number		3269
14.2. UN proper shipping na	ime	
Proper shipping name		Polyester resin kit
14.3. Transport hazard class	(es)	
Class		3
Classification code		F3
14.4. Packing group		
Packing group		III
Labels		3
14.5. Environmental hazard	S	
<b>Environmentally hazard</b>	ous substance mark	no
14.6. Special precautions fo	ruser	
Special provisions		236
Special provisions		340
Limited quantities		Combination packagings: not more than 5 liters per inner packaging fo
		liquids. A package shall not weigh more than 30 kg. (gross mass)
Sea (IMDG/IMSBC)		
14.1. UN number		
		2200
UN number		3269
14.2. UN proper shipping na	ime	h
Proper shipping name	( )	Polyester resin kit
14.3. Transport hazard class	(es)	h
Class		3
14.4. Packing group		- Lui
Packing group		 
Labels		3
14.5. Environmental hazard	S	
Marine pollutant		
Environmentally hazard		no
14.6. Special precautions fo	ruser	loos
Special provisions		236
Special provisions		340
Limited quantities		Combination packagings: not more than 5 liters per inner packaging for
		liquids. A package shall not weigh more than 30 kg. (gross mass)
	rding to Annex II of Marpol and the IBC Co	
Annex II of MARPOL 73/	/8	Not applicable, based on available data
Air (ICAO-TI/IATA-DGR)		
14.1. UN number		
		2260
UN number	mo	3269
14.2. UN proper shipping no	ille	Delivertor regin kit
Proper shipping name	( )	Polyester resin kit
14.3. Transport hazard class	(es)	
son for revision: 2;3		Publication date: 2001-06-14
3011 101 16 131011. 2,3		

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Class	3
14.4. Packing group	
Packing group	III
Labels	3
14.5. Environmental hazards	
Environmentally hazardous substance mark	no
14.6. Special precautions for user	
Special provisions	A66
Special provisions	A163
limited quantities: maximum net quantity per packaging	5 kg

# SECTION 15: Regulatory information 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

## European legislation:

VOC content Directive 2010/75/EU

VOC content		Remark	
7.1 % - 12.5 %			
134.9 g/l - 237.5 g/l			

#### REACH Annex XVII - Restriction

	ingerous substances, mixtures and articles.
styrene	Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008:  (a) hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F;  (b) hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10; (c) hazard class 4.1; (d) hazard class 5.1.  (d) hazard class 5.1.  (e) hazard class 5.1.  (e) hazard class 5.1.  (e) hazard class 5.1.  (e) hazard class 5.1.  (f) hazard class 6.1 in oil
styrene	Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to that Regulation or not.  1. Shall not be used, as substance or as mixtures in aerosol dispensers where these aero dispensers are intended for supply to the general public for entertainment and decorating purposes such as the following:  — metallic glitter intended mainly for decoration, — artificial snow and frost, — "whoopee" cushions, — silly string aerosols, — imitation excrement, — horns for parties, — decorative flakes and foams, — artificial cobwebs, — stink bombs. 2. Without prejudice to the application of other Community provisions of the classification, packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers referred to above is mar visibly, legibly and indelibly with:  "For professional users only".3. By way of derogation, paragraphs 1 and 2 shall not apply the aerosol dispensers referred to in paragraphs 1 and 2 shall not be placed on the market unless they conform to the requirements indicated.

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Metal Plastic Extra Fine No data available

styrene

Résorption peau

Styrène (monomère); D; La mention "D" signifie que la résorption de l'agent, via la peau, les muqueuses ou les yeux, constitue une partie importante de l'exposition totale. Cette résorption peut se faire tant par contact direct que par présence de l'agent dans l'air.

#### National legislation The Netherlands

Metal Plastic Extra Fine

Waste identification (the Netherlands): KGA category 03

Netherlands)

styrene

SZW - Lijst van voor de styreen; 2; Suspected of damaging the unborn child.
voortplanting giftige stoffen (ontwikkeling)

#### **National legislation France**

Metal Plastic Extra Fine
No data available

#### National legislation Germany

Metal Plastic Extra Fine

WGK

2; Classification water polluting based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 27 July 2005 (Anhang 4)

<u>styrene</u>

TA-Luft 5.2.5; I

TRGS900 - Risiko der Styrol; Y; Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes nicht befürchtet zu werden

#### National legislation United Kingdom

Metal Plastic Extra Fine
No data available

#### Other relevant data

Metal Plastic Extra Fine
No data available

<u>styrene</u>

IARC - classification	2B; Styrene
TLV - Carcinogen	Stvrene. monomer: A4

### 15.2. Chemical safety assessment

No chemical safety assessment has been conducted for the mixture.

## SECTION 16: Other information

#### Full text of any H-statements referred to under headings 2 and 3:

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H361d Suspected of damaging the unborn child.

H372 Causes damage to organs (ears (hearing damage)) through prolonged or repeated exposure if inhaled.

(\*) INTERNAL CLASSIFICATION BY BIG

CLP (EU-GHS) Classification, labelling and packaging (Globally Harmonised System in Europe)

DMEL Derived Minimal Effect Level
DNEL Derived No Effect Level
EC50 Effect Concentration 50 %

ErC50 EC50 in terms of reduction of growth rate

LC50 Lethal Concentration 50 % LD50 Lethal Dose 50 %

NOAEL No Observed Adverse Effect Level
NOEC No Observed Effect Concentration

OECD Organisation for Economic Co-operation and Development

PBT Persistent, Bioaccumulative & Toxic
PNEC Predicted No Effect Concentration
STP Sludge Treatment Process

vPvB very Persistent & very Bioaccumulative

The information in this safety data sheet is based on data and samples provided to BIG. The sheet was written to the best of our ability and

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according to the state of knowledge at that time. The safety data sheet only constitutes a guideline for the safe handling, use, consumption, storage, transport and disposal of the substances/preparations/mixtures mentioned under point 1. New safety data sheets are written from time to time. Only the most recent versions may be used. Old versions must be destroyed. Unless indicated otherwise word for word on the safety data sheet, the information does not apply to substances/preparations/mixtures in purer form, mixed with other substances or in processes. The safety data sheet offers no quality specification for the substances/preparations/mixtures in question. Compliance with the instructions in this safety data sheet does not release the user from the obligation to take all measures dictated by common sense, regulations and recommendations or which are necessary and/or useful based on the real applicable circumstances. BIG does not guarantee the accuracy or exhaustiveness of the information provided and cannot be held liable for any changes by third parties. This safety data sheet has been elaborated for use within the European Union, Switzerland, Iceland, Norway and Lichtenstein. It may be consulted in other countries, where local legislation with regards to the set-up of safety data sheets will take precedence. It is your obligation to verify and apply such local legislation. Use of this safety data sheet is subject to the licence and liability limiting conditions as stated in your BIG licence agreement or when this is failing the general conditions of BIG. All intellectual property rights to this sheet are the property of BIG and its distribution and reproduction are limited. Consult the mentioned agreement/conditions for details.

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