

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

SDS n°: FP16542 Page 1/21 **EASYLAM LSE**

Revision date 21-Nov-2017 Former date 29-Feb-2016 Version: 1.2

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

1.1. Product identifier

Product name EASYLAM LSE

Chemical Name Unsaturated polyester resin

Pure substance/mixture Mixture

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

Resins for composites. Contact us before using for food contact application. Identified uses

1.3. Details of the supplier of the safety data sheet

Polynt Composites France S.A. Supplier

Route d'Arras CS 50019

62320 Drocourt

France

Tel: +33 3 21 74 84 00 Fax: +33 3 21 49 55 84

For further information, please contact

Rccp.SDSmanagement@polynt.com E-mail address

Internet Address http://www.polynt.com

1.4. Emergency telephone number

This telephone number is available 24 hours per day, 7 days	per week.
Europe, America, Middle East, Africa (European language countries):	+44 (0) 1235 239 670
Middle East/Africa (Arabic speaking countries):	+44 (0) 1235 239 671
Asia Pacific :	+65 3158 1074

Poison Information Centre

European emergency phone number : 112 telephone number

UK: National Poisons Emergency Number: 0845 4647

Ireland: National Poisons Information Centre (NPIC)Telephone Healthcare

Professionals: +353 (01) 809 2566. (24 hour service) Telephone Members of Public:

+353 (01) 809 2166. (8.00 a.m. to 10.00 p.m. 7 days a week)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification of the substance or mixture - GHS/CLP (n° 1272/2008)

Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Reproductive Toxicity	Category 2
Specific Target Organ Toxicity (Single Exposure)	Category 3

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Specific target organ toxicity - repeated exposure	Category 1
Chronic Aquatic Toxicity	Category 3
Flammable liquids	Category 3

2.2. Label elements

Contains Styrene







Signal word

Danger

Hazard statements

H315 - Causes skin irritation H319 - Causes serious eye irritation

H319 - Causes serious eye irritation
H335 - May cause respiratory irritation

H226 - Flammable liquid and vapour

H361d - Suspected of damaging the unborn child

H372 - Causes damage to organs through prolonged or repeated exposure if inhaled

H412 - Harmful to aquatic life with long lasting effects

Physical hazards

EU H -Phrases

EUH208 - Contains phthalic anhydride- May produce an allergic reaction.

Precautionary statements

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

P243 - Take precautionary measures against static discharge

P260 - Do not breathe vapour

P273 - Avoid release to the environment

P280 - Wear protective gloves/ eye protection/ face protection P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

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

breathing

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

Chemical Name	EC-No	REACH Registration Number	CAS-No	Weight percent	GHS Classification
Limestone	215-279-6	No data available	1317-65-3	~ 34	-

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Styrene	202-851-5	01-2119457861-32	100-42-5	~ 26	Flam. Liq. 3 (H226) Repr. 2 (H361d) Acute Tox. 4 (H332) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Asp. Tox. 1 (H304) STOT SE 3 (H335) STOT RE 1 (H372) Aquatic Chronic 3 (H412)
Silica, amorphous, fumed, crystalline-free	231-545-4	01-2119379499-16	112945-52-5	< 1	-
phthalic anhydride	201-607-5	01-2119457017-41	85-44-9	<1	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Skin Sens. 1 (H317) Eye Dam. 1 (H318) Resp. Sens. 1 (H334) STOT SE 3 (H335)
propane-1,2-diol	200-338-0	01-2119456809-23	57-55-6	< 1	-
Hydroquinone	204-617-8	01-2119524016-51	123-31-9	~ 0.01	Acute Tox. 4 (H302) Eye Dam. 1 (H318) Skin Sens. 1 (H317) Muta. 2 (H341) Carc. 2 (H351) Aquatic acute 1 (H400) Aquatic Chronic 1 (H410)

For the full text of the H-Statements mentioned in this Section, see Section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice Show this safety data sheet to the doctor in attendance

Do not breathe dust/fume/gas/mist/vapours/spray

Eye Contact Rinse thoroughly with plenty of water, also under the eyelids.

Keep eye wide open while rinsing. If symptoms persist, call a physician

Skin contactWash off immediately with soap and plenty of water removing all contaminated clothes

and shoes

If skin irritation persists, call a physician

Inhalation Move to fresh air

If not breathing, give artificial respiration

Consult a physician

Ingestion Do NOT induce vomiting

Rinse mouth. Consult a physician

See section 8 for more information

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

Eye Contact Irritating to eyes

Skin contact Irritating to skin

May produce an allergic reaction.

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Inhalation Harmful: danger of serious damage to health by prolonged exposure through inhalation

Irritating to respiratory system May produce an allergic reaction.

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. Ingestion

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

No information available Notes to physician

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Dry chemical, Foam, Carbon dioxide (CO₂), (closed systems)

Extinguishing Media Which Must not be Used for Safety Reasons

Do not use a solid water stream as it may scatter and spread fire.

5.2. Special hazards arising from the substance or mixture

itself, combustion products, resulting gases

Special exposure hazards arising Vapours may form explosive mixtures with air. Most vapours are heavier than air. They from the substance or preparation will spread along ground and collect in low or confined areas (sewers, basements, tanks) Heating or fire can release toxic gas: Carbon monoxide

5.3. Advice for firefighters

Special protective equipment for fire-fighters

Wear self-contained breathing apparatus and protective suit.

Other information

Cool containers / tanks with water spray.

Fire residues and contaminated fire extinguishing water must be disposed of in

accordance with local regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Personal precautions

Remove all sources of ignition Heat, flames and sparks.

Take precautionary measures against static charges.

Ensure adequate ventilation Use personal protective equipment

For emergency responders

Avoid breathing vapours or mists In the event of fire and/or explosion do not breathe

fumes. Use personal protective equipment

6.2. Environmental precautions

Environmental precautions The product should not be allowed to enter drains, water courses or the soil.

Do not flush into surface water or sanitary sewer system

6.3. Methods and material for containment and cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, Methods for cleaning up

earth, diatomaceous earth, vermiculite) and place in container for disposal according to

local / national regulations (see section 13)

Use clean non-sparking tools to collect absorbed material

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6.4. Reference to other sections

See section 8 for more information

See Section 12 for additional Ecological Information

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling Avoid static electricity build up with connection to earth

Use only in area provided with appropriate exhaust ventilation

In case of insufficient ventilation, wear suitable respiratory equipment

For personal protection see section 8

Prevention of fire and explosion Keep away from open flames, hot surfaces and sources of ignition Do not use

compressed air for filling, discharging or handling. Empty containers may contain

flammable or explosive vapours

Hygiene measures When using, do not eat, drink or smoke Provide regular cleaning of equipment, work

area and clothing Wash hands before breaks and at the end of workday.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures/Storage

conditions

Keep in a dry, cool and well-ventilated place. Keep at temperature not exceeding 30°C Keep away from heat and sources of ignition.

Strong oxidizing agents, Peroxides, Reducing agents Materials to avoid

Packageing material metallic GRP Tanks (Reinforced Glass Polyester)

Unsuitable materials for containers copper, Copper alloys, Bronze, Zinc

7.3. Specific end use(s)

No information available Specific use(s)

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure limits

Chemical Name	European Union	ACGIH OEL (Ceiling)	The United Kingdom	Ireland
Limestone 1317-65-3	TWA 4 mg/m³ (Fraction alvéolaire) TWA 10 mg/m³ (Fraction inhalable)		STEL 30 mg/m³ STEL 12 mg/m³ TWA 10 mg/m³ TWA 4 mg/m³	TWA 10 mg/m³ TWA 4 mg/m³
Styrene 100-42-5	-	TLV-8h TWA: 20 ppm - 85 mg/m³ TLV-15min STEL: 40 ppm - 170 mg/m³	1080 mg/m ³	TWA 20 ppm TWA 85 mg/m³ STEL 40 ppm STEL 170 mg/m³
phthalic anhydride 85-44-9		TWA 1 ppm	STEL 12 mg/m³ TWA 4 mg/m³ Sen+	TWA 4 mg/m³ STEL 12 mg/m³ Sensitizer
propane-1,2-diol 57-55-6			STEL 450 ppm STEL 1422 mg/m³ STEL 30 mg/m³ TWA 150 ppm TWA 474 mg/m³ TWA 10 mg/m³	TWA 150 ppm TWA 470 mg/m³ TWA 10 mg/m³
Hydroquinone 123-31-9		TWA 1 mg/m³	STEL 1.5 mg/m³ TWA 0.5 mg/m³	TWA 0.5 mg/m ³

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Special hazards arising from the substance or mixture

Biological standards
Derived No Effect Level (DNEL)

	Derive	d No Effect Level (DNEL	-)	
	;	Styrene (100-42-5)		
Type	DNEL oral	DNEL dermal	DNEL inhalation	Remark
Workers - Long Term - Systemic effect		406 mg/Kg bw/day	85 mg/m ³	
Workers - Acute Short Term - Local effect			306 mg/m ³	
Workers - Acute Short term - Systemic effect			289 mg/m³	
General Population - Acute Short Term - Local effect			182.7 mg/m ³	
General Population - Acute Short Term - Systemic effect			174.2 mg/m³	
General Population - Long Term - Systemic effect	2.1 mg/Kg bw/day	343 mg/Kg bw/day	10.2 mg/m ³	

	Silica, amorphous,	fumed, crystalline-free	(112945-52-5)	
Type	DNEL oral	DNEL dermal	DNEL inhalation	Remark
Workers - Long Term -			4 mg/m³	
Systemic effect				

	phtha	lic anhydride (85-44-9)		
Туре	DNEL oral	DNEL dermal	DNEL inhalation	Remark
Workers - Long Term - Systemic effect		10 mg/kg bw/day	32.2 mg/m ³	
General Population - Long Term - Systemic effect	5 mg/kg bw/day	5 mg/kg bw/day	8.6 mg/m ³	

	pro	pane-1,2-diol (57-55-6)		
Туре	DNEL oral	DNEL dermal	DNEL inhalation	Remark
Workers - Long Term - Systemic effect			168 mg/m³	
Workers - Long Term - Local effect			10 mg/m³	
General Population - Long Term - Systemic effect			50 mg/m³	
General Population - Long Term - Local effect			10 mg/m³	

	Ну	droquinone (123-31-9)		
Type	DNEL oral	DNEL dermal	DNEL inhalation	Remark
Workers - Long Term - Systemic effect		128 mg/kg bw/day	7 mg/m³	
Workers - Long Term - Local effect			1 mg/m³	
General Population - Long Term - Systemic effect		64 mg/kg bw/day	1.74 mg/m³	
General Population - Long Term - Local effect			0.5 mg/m ³	

Predicted No Effect Concentration

(PNEC)
PNEC Component
Styrene (100-42-5)

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Exposure	Туре	PNEC
Fresh water	PNEC Aqua	0.028 mg/L
Marine water	PNEC Aqua	0.014 mg/L
Intermittent use/release	PNEC Aqua	0.04 mg/L
Fresh water	PNEC Sediment	0.614 mg/Kg.dw
Marine water	PNEC Sediment	0.307 mg/Kg.dw
Terrestrial Compartment	PNEC Soil	0.2 mg/Kg.dw
STP microorganisms	PNEC STP	5 mg/L

Silica, amorphous, fumed, crystalline-free (112945-52-5)		
Exposure	Type	PNEC
Secondary Poisoning	PNEC Oral	60000 mg/kg

phthalic anhydride (85-44-9)		
Exposure	Type	PNEC
Fresh water	PNEC Aqua	1 mg/L
Marine water	PNEC Aqua	0.1 mg/L
Intermittent use/release	PNEC Aqua	5.6 mg/L
	PNEC STP	10 mg/L
Fresh water	PNEC Sediment	3.8 mg/kg sediment dw
Marine water	PNEC Sediment	0.38 mg/kg sediment dw
Terrestrial Compartment	PNEC Soil	0.173 mg/kg soil dw

propane-1,2-diol (57-55-6)		
Exposure	Туре	PNEC
Fresh water	PNEC Aqua	260 mg/L
Marine water	PNEC Aqua	26 mg/L
Intermittent use/release	PNEC Aqua	183 mg/L
	PNEC STP	20000 mg/L
Fresh water	PNEC Sediment	572 mg/kg sediment dw
Marine water	PNEC Sediment	57.2 mg/kg sediment dw
	PNEC Soil	50 mg/kg soil dw
Secondary Poisoning	PNEC Oral	1133 mg/kg

Hydroquinone (123-31-9)		
Exposure	Type	PNEC
Fresh water	PNEC Aqua	0.114 μg/L
Marine water	PNEC Aqua	0.0114 μg/L
Fresh water	PNEC Sediment	0.98 µg/kg sediment dw
Marine water	PNEC Sediment	0.097 μg/kg sediment dw
	PNEC Soil	0.129 μg/kg soil dw
	PNEC STP	0.71 mg/L
Intermittent use/release	PNEC Aqua	1.34 μg/L

8.2. Exposure controls

Occupational exposure controls

Engineering measures

Apply technical measures to comply with the occupational exposure limits.

When working in confined spaces (tanks, containers, etc.), ensure that there is a supply

of air suitable for breathing and wear the recommended equipment

Personal protective equipment

General Information Respiratory protection

Use personal protective equipment.

Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour)

If exposure limits are likely to be exceeded / In case of insufficient ventilation wear

suitable respiratory equipment :

Breathing apparatus with filter Type A (Organic gases and vapours filter conforming to EN 14387, APF 40 < 1 hour, APF 200 > 1 hour) / Type A(2)/P3 in combination with

Particulates filter conforming to EN 143, if exposed to dust Safety glasses with side-shields. Do not wear contact lenses.

Eye protection

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Skin and body protection Hand protection

Antistatic boots. Protective shoes or boots. Wear fire/flame resistant/retardant clothing. Wear chemically resistant gloves (tested to EN 374) in combination with 'basic'

employee training

Glove material: Neoprene, Nitriles, Viton (R) or Polyvinyl alcohol

Gloves should be discarded and replaced if there is any indication of degradation or

chemical breakthrough.

Environmental exposure controls

Environmental exposure controls Do not allow material to contaminate ground water system.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Property	Values	<u>Remark</u>
Appearance Physical state	off-white Liquid	
Particle size Odour Odour Threshold	Styrene 0.15 ppm	no data available Values related to styrene
pH pH (as aqueous solution)	0.10 ррш	no data available
Melting point/range Freezing Point	- 30 °C	Values related to styrene no data available
Boiling point Flash point	145 °C 31 °C	Values related to styrene Values related to styrene
Evapouration rate Flammability Limits in Air	0.4. 0.00/	no data available
upper lower Vapour pressure	6,1 - 6,8% 0,9 -1,1% 6 hPa	Values related to styrene Values related to styrene 20°C
Vapour pressure Vapour density Density	3.6 1.1 - 1.15 g/cm3	Values related to styrene 20°C
Water solubility Partition coefficient:	Insoluble in water 3	Values related to styrene
n-octanol/water Autoignition temperature	490 °C	Values related to styrene
Decomposition temperature Viscosity, kinematic	409 - 682 mm2/s	no data available 25°C 25°C
Viscosity, dynamic Explosive properties Oxidizing properties	450 - 750 mPa.s	not applicable not applicable

9.2. Other information

<u>Property</u> <u>Values</u> <u>Remark</u>

Solubility in other solvents Soluble in most organic solvents

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity Product may ignite and burn at temperatures exceeding the flash point

10.2. Chemical stability

Stability Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

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Hazardous reactions In use, may form flammable/explosive vapour-air mixture.

Hazardous polymerisation

Conditions to avoid

Polymerisation can occur.

10.4. Conditions to avoid

Heat, flames and sparks.

Exposure to light.

Take precautionary measures against static charges.

10.5. Incompatible materials

Materials to avoid Strong oxidizing agents, Peroxides, Reducing agents

10.6. Hazardous decomposition products

Hazardous decomposition Incomplete combustion and thermolysis produces potentially toxic gases such as carbon

products monoxide and carbon dioxide

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Inhalation Harmful: danger of serious damage to health by prolonged exposure through inhalation

Irritating to respiratory system May produce an allergic reaction.

Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation	Read-across (Analogy)
Limestone 1317-65-3	> 5000 mg/kg bw (Rat)			
Styrene 100-42-5	5000 mg/kg (Rat)	> 2000 mg/kg bw (Rat) 24h OECD 402	11.8 mg/L (Rat) 4h CSR	
Silica, amorphous, fumed, crystalline-free 112945-52-5	> 5000 mg/kg bw (Rat) OECD 401	> 5000 mg/kg (Rabbit)	> 0.14 mg/L air (Rat) 4h (analytical) OECD 403	
phthalic anhydride 85-44-9	1530 mg/kg bw (Rat)	> 3160 mg/kg bw (Rabbit)	> 2.14 mg/L (Rat) 4h OECD 403	
propane-1,2-diol 57-55-6	22000 mg/kg bw (Rat) Study predates GLP and OECD guidelines	LD50 (24h) > 2000 mg/kg bw (Rabbit)	LC50 (2h) aerosol > 317042 mg/m³ air (Rabbit)	
Hydroquinone 123-31-9	367 mg/kg bw (Rat) OECD 401	> 2000 mg/kg bw (Rabbit) OECD 402		

Skin corrosion/irritation

Chemical Name	Skin corrosion/irritation	Read-across (Analogy)
Styrene 100-42-5	Irritating to skin in vivo assay rabbit	
Silica, amorphous, fumed, crystalline-free 112945-52-5	No skin irritation rabbit OECD 404	
phthalic anhydride 85-44-9	Irritating to skin in vivo assay rabbit OECD 404	
propane-1,2-diol 57-55-6	No skin irritation in vivo assay rabbit OECD 404	
Hydroquinone 123-31-9	No skin irritation	

Serious Eye Damage/Eye Irritation

	Chemical Name	Serious Eye Damage/Eye Irritation	Read-across (Analogy)
Γ	Styrene	Irritating to eyes	
	100-42-5	in vivo assay	
		rabbit	

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Silica, amorphous, fumed, crystalline-free 112945-52-5	No eye irritation rabbit OECD 405	
phthalic anhydride 85-44-9	Irritating to eyes in vivo assay rabbit Draize Test	
propane-1,2-diol 57-55-6	No eye irritation in vivo assay rabbit OECD 405	
Hydroquinone 123-31-9	Risk of serious damage to eyes Severe eye irritation	

Respiratory or skin sensitisation May produce an allergic reaction.

Chemical Name	Respiratory or skin sensitisation	Read-across (Analogy)
Styrene 100-42-5	Does not cause skin sensitization Does not cause respiratory sensitization CSR	
Silica, amorphous, fumed, crystalline-free 112945-52-5	Does not cause skin sensitization Does not cause respiratory sensitization	
phthalic anhydride 85-44-9	May cause sensitisation by inhalation and skin contact in vivo assay guinea pig OECD 406	
propane-1,2-diol 57-55-6	Does not cause skin sensitization Does not cause respiratory sensitization in vivo assay guinea pig OECD 406 mouse OECD 429	
Hydroquinone 123-31-9	May cause sensitisation by skin contact mouse OECD 429 guinea pig OECD 406	

Mutagenic Effects

in vitro study

Chemical Name	Ames test	Read-across (Analogy)
Styrene 100-42-5	Ambiguous In vitro gene mutation study in bacteria (S. typhimurium G46, TA1530, TA 1535, TA100, TA98, TA1538, TA 1537) OECD 471	
Silica, amorphous, fumed, crystalline-free 112945-52-5	negative In vitro gene mutation study in bacteria OECD 471	
phthalic anhydride 85-44-9	negative In vitro gene mutation study in bacteria (S. typhimurium TA 1535, TA 1537, TA 98, TA100 and TA 102) (Escherichia coli WP2 uvrA) OECD 471	
propane-1,2-diol 57-55-6	negative In vitro gene mutation study in bacteria Salmonella typhimurium (S. typhimurium, other: TA 92, TA 94, TA 98, TA 100, TA 1535, TA 1537)	
Hydroquinone 123-31-9	negative In vitro gene mutation study in bacteria OECD 471	

Chemical Name	In vitro Mammalian Cell Gene Mutation Test	Read-across (Analogy)
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Styrene 100-42-5	Ambiguous In vitro gene mutation study in mammalian cells hamster OECD 476	
Silica, amorphous, fumed, crystalline-free 112945-52-5	negative In vitro gene mutation study in mammalian cells OECD 476	
phthalic anhydride 85-44-9	negative In vitro gene mutation study in mammalian cells hamster OECD 476	
Hydroquinone 123-31-9	positive Chromosome aberration test in vitro OECD 483	
Chemical Name	In vitro Mammalian Chromosome Aberration Test	Read-across (Analogy)
Styrene 100-42-5	positive Chromosome aberration test in vitro OECD 473 OECD 479	
Silica, amorphous, fumed, crystalline-free 112945-52-5	negative Chromosome aberration test in vitro OECD 473	
phthalic anhydride 85-44-9	Ambiguous Chromosome aberration test in vitro hamster OECD 473	
propane-1,2-diol 57-55-6	negative Chromosome aberration test in vitro OECD 473	
Hydroquinone 123-31-9	positive In vitro gene mutation study in mammalian cells mouse OECD 476	

in vivo assay

Chemical Name	Unscheduled DNA Synthesis	(UDS) Read-across (Analogy)
Styrene	negative	
100-42-5	mouse OECD 486 OECD 474	
Silica, amorphous, fumed, crystalline-free	negative	
112945-52-5	rat	
propane-1,2-diol	negative	
57-55-6	rat	
Chemical Name		European Union
Hydroquinone 123-31-9		Muta. 2

Carcinogenicity

Carcinogenicity					
Styrene (100-42-5)					
Exposure routes	Method	Species	Dose	Evaluation	
Inhalation	OECD 453	rat	NOAEC systemic (carcinogenicity) >= 4.34 mg/L air (nominal)	negative	
Inhalation	OECD 453	mouse	LOAEC (carcinogenicity) female/male = 0.09 - 0.18 mg/L air resp., NOAEC (carcinogenicity) male = 0.09 mg/L air	positive	
Oral	No information available	rat	NOAEL (carcinogenicity) >= 2000 mg/kg bw /day	positive	
Oral	No information available	mouse	LOAEL (carcinogenicity) = 150 mg/kg bw /day	positive	

Silica, amorphous, fumed, crystalline-free (112945-52-5)					
Exposure routes	Method	Species	Dose	Evaluation	

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Oral	OECD 453	rat	NOAEL = 1800 - 3200 mg/kg bw/day	negative
phthalic anhydride (85-	44-9)			
Exposure routes	Method	Species	Dose	Evaluation
Oral	No information available	mouse	NOAEL (carcinogenicity, male) = 3570 mg/kg bw/day (72w) NOAEL (carcinogenicity, female) = 1785 mg/kg bw/day (72w)	negative
Oral	No information available	rat	NOAEL (carcinogenicity) = 1000 mg/kg bw/day (105w)	negative
propane-1,2-diol (57-55	-6)			
Exposure routes	Method	Species	Dose	Evaluation
Inhalation	No information available	rat	NOAEC carcinogenocity (male/female) > 350 mg/m³ air (18 month)	negative
Dermal	No information available	mouse	NOAEL carcinogenicity (female) = 0.02 ml/twice a week	negative
Oral	No information available	rat	NOAEL carcinogenicity (male) = 1700 mg/kg bw/day NOAEL carcinogenicity (male/female) = 3040 mg/kg bw/day (105 weeks)	negative
Oral	No information available	mouse	NOAEL carcinogenicity (male/female) = 2390 mg/kg bw/day	negative
Hydroquinone (123-31-	9)			
Exposure routes	Method	Species	Dose	Evaluation
Oral	OECD 453	mouse	LOAEL = 100 mg/kg bw/day NOEL = 50 mg/kg bw/day	negative
Reproductive toxicity	1			
Reproductive toxicity				
Styrene (100-42-5)				
Exposure routes	Method	Species	Dose	Evaluation
Inhalation	No information available	rat	NOAEL/LOAEL (fertility) 60d = 100 - 200 mg/kg bw/day	positive
Oral	OECD 422	rat	NOAEL/LOAEL (fertility) 60d = 200 - 400 mg/kg bw/day	positive
Inhalation	OECD 416	rat	NOAEC (P, F1) = 0.64 mg/L air LOAEC (P, F1) = 2.13 mg/L air NOAEC (F2) = 0.21 mg/L air LOAEC (F2) = 0.64 mg/L air (70d)	negative
Cilias amarahana form	ad anyotalling free (442045 50 5)			
	ed, crystalline-free (112945-52-5)		Dose	Evaluation
Exposure routes	Method	Species	Dose	Evaluation
Oral	OECD 415	rat	NOAEL = 497 mg/kg bw/day	negative

phthalic anhydride (85-44-9)						
Exposure routes	Method	Species	Dose	Evaluation		

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Oral	No information available	mouse	NOAEL (reproductive,	nogotivo
Jiai	ino mormation available	mouse	male) = 3570 mg/kg	negative
			bw/day (72w)	
			NOAEL (reproductive,	
			female) = 1785 mg/kg	
			bw/day (72w)	
Oral	No information available	rat	NOAEL (reproductive,	negative
	. tooa.o a.vaao.o	""	female) = 1000 mg/kg	l egan e
			bw/day (105w)	
	•	•		
ropane-1,2-diol (57-55-	,	lo · · ·	ls	le ar again
xposure routes	Method	Species	Dose	Evaluation
Oral	NTP Reproductive	mouse	NOAEL toxicity	negative
	Assessment by		(male/female) = 10100	
	Continuous Breeding		mg/kg bw/day	
	(RACB)		NOAEL fertility	
			(male/female) = 10100	
			mg/kg bw/day NOAEL developmental	
			effects (male/female) = 10100 mg/kg bw/day	
			pro roo mg/kg bw/day	1
lydroquinone (123-31-9				
Exposure routes	Method	Species	Dose	Evaluation
Oral	EPA OTS 798.4700	rat	NOAEL (parental toxicity)	negative
			= 15 mg/kg bw/day	
			LOAEL (reproductive	
			effects) = 150 mg/kg	
			bw/day	
Developmental Toxicity Styrene (100-42-5)		T-		
Exposure routes	Method	Species	Dose	Evaluation
nhalation	No information available	rat	NOAEC/LOAEC (maternal	positive
			toxicity + developemental	_
			toxicity) >50d = 1.08 - 2.15	P
			mg/L air	
nhalation	OECD 414	rat	LOAEC (maternal toxicity)	positive
ala alatia a	0500 444		6-15d = 1.28 mg/L air	
nhalation	OECD 414	rat	NOAEC (developmental	negative
			toxicity) 6-15d >= 2.56 mg/L air	
ala alatia a	0500 444	and he is		
nhalation	OECD 414	rabbit	NOAEC (maternal toxicity	negative
			+ developmental toxicity) 6-18d = 2.56 mg/L air	
	L		0-160 = 2.36 Hig/L all	
Silica, amorphous, fume	ed, crystalline-free (112945-52-5)			
Exposure routes	Method	Species	Dose	Evaluation
Oral	OECD 414	rat	NOAEL (maternal toxicity)	negative
			= 1350 mg/kg bw/day	
			NOAEL (teratogenicity) =	
		1	1350 mg/kg bw/day	
		Species	Doce	Evaluation
xposure routes	Method	Species	Dose NOAEL (vactorial toxisity)	Evaluation
xposure routes	Method Read-across (Analogy)	Species rat	NOAEL (maternal toxicity)	Evaluation positive
xposure routes	Method Read-across (Analogy) phthalic acid Cas N°:		NOAEL (maternal toxicity) = 1000 mg/kg bw/day	
xposure routes	Method Read-across (Analogy)		NOAEL (maternal toxicity) = 1000 mg/kg bw/day NOAEL (teratogenicity) =	
xposure routes	Method Read-across (Analogy) phthalic acid Cas N°:		NOAEL (maternal toxicity) = 1000 mg/kg bw/day	
xposure routes Pral	Method Read-across (Analogy) phthalic acid Cas N°: 88-99-3		NOAEL (maternal toxicity) = 1000 mg/kg bw/day NOAEL (teratogenicity) =	
ohthalic anhydride (85-4 Exposure routes Oral Oropane-1,2-diol (57-55- Exposure routes	Method Read-across (Analogy) phthalic acid Cas N°: 88-99-3		NOAEL (maternal toxicity) = 1000 mg/kg bw/day NOAEL (teratogenicity) =	

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Oral	OECD 414	NOAEL (developmental toxicity) = 10400 mg/kg bw/day NOAEL (maternal toxicity)	negative
		= 52 mg/kg bw/day	

Hydroquinone (123-31-9)			
Exposure routes	Method	Species	Dose	Evaluation
Oral	OECD 414	rat	NOEL (maternal toxicity and developmental toxicity) = 100 mg/kg bw/day	negative
Oral	EPA OTS 798.4900	rabbit	NOEL (maternal toxicity) 25 mg/kg bw/day NOEL (developmental toxicity) = 75 mg/kg bw/day	= negative

Specific target organ toxicity - May cause irritation of respiratory tract single exposure

STOT - single exposure				
propane-1,2-diol (57-55-	6)			
Exposure routes	Method	Species	Dose	Remarks
Oral	No information available	rat	NOAEL (male/female) 102 weeks = 1700 mg/kg bw/day	2
Dermal	No information available	mouse	NOAEL (female) = 0.02 m (twice by week, 10 weeks	
Inhalation	No information available	rat	LOAEC (male) 90d = 160 mg/m ³	

Hydroquinone (123-31-9)				
Exposure routes	Method	Species	Dose	Remarks
Oral	No information available		NOAEL (90d) = 50 mg/kg bw/day	

Specific target organ toxicity - Causes damage to organs through prolonged or repeated exposure , target organ(s) : Central nervous system , Ears

STOT - repeated exposu	STOT - repeated exposure				
Styrene (100-42-5)					
Exposure routes	Method	Species	Dose	Remarks	
Inhalation	OECD 412	rat mouse	NOAEC male (28d) = 3.47 mg/L air NOAEC (ototoxicity) 28d = 2.13 mg/L air NOAEC (28d) = 0.181 mg/L air NOAEC (28d) = 0.688 mg/L air		
Inhalation	No information available	rat	NOAEC (nasal tract) = 0.85 mg/L air NOAEC (overall) = 2.13 mg/L air NOAEC (ototoxicity) = 0.85 mg/L air LOAEC (ototoxicity) = 3.41 mg/L air NOAEC (overall) = 2.13 mg/L air		
Oral	No information available	rat	NOAEL (toxicity) = 1000 mg/kg bw/day LOAEL (toxicity) = 2000 mg/kg bw/day		

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Oral	No information available	NOAEL (toxicity) = 150 mg/kg bw /day LOAEL (toxicity) = 300 mg/kg bw /day	
Inhalation	OECD 453	LOAEC local (toxicity) = 0.21 mg/L air	

Silica, amorphous, fumed, crystalline-free (112945-52-5)				
Exposure routes	Method	Species	Dose	Remarks
Oral	OECD 408	rat	NOEL (highest dose) 4000 <= 4500 mg/kg bw/day 90d	
Inhalation	OECD 413	rat	NOEC = 1.3 mg/m^3 air NOEC < 1.3 mg/m^3 air 90d	
Dermal	No information available	rabbit	NOAEL >= 10000 mg/kg bw/day	

phthalic anhydride (85-4	14-9)			
Exposure routes	Method	Species	Dose	Remarks
Oral	No information available	rat	NOAEL = 1250 mg/kg bw/day LOAEL = 2500 mg/kg bw/day 7 weeks	
Oral	No information available	rat	NOAEL (105 weeks) = 500 mg/kg bw/day	
Oral	No information available	mouse	LOAEL (male) = 2340 mg/kg bw/day LOAEL (female) = 1717 mg/kg bw/day 72 weeks	

propane-1,2-diol (57-55-6)				
Exposure routes	Method	Species	Dose	Remarks
Oral	No information available	rat	NOAEL = 1700 mg/kg	
			bw/day	
Inhalation	No information available	rat	NOAEC = 1000 mg/m ³ air	
			NOAEC = 2200 mg/m ³ air	
Dermal	No information available	mouse	NOAEL = 0.02 ml/twice a	
			week	

Hydroquinone (123-31-9)				
Exposure routes	Method	Species	Dose	Remarks
Oral	OECD 453	rat	NOAEL (chronic toxicity) 25 mg/kg bw/day	=
Dermal	OECD 411	rat	NOAEL (male) = 73.9 mg/kg bw/day NOAEL (female) = 109.6 mg/kg bw/day	

Aspiration hazard Due to the viscosity, this product does not present an aspiration hazard.

Other information None

SECTION 12: Ecological information

12.1. Toxicity

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Do not flush into surface water or sanitary sewer system

Acute aquatic toxicity - Component Information

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Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates.	Toxicity to fish	Toxicity to microorganisms
Limestone 1317-65-3	EC50 (72h) > 200 mg/L (Desmodesmus subspicatus)	EC50 (48h) > 1000 mg/L (Daphnia magna)	LC50 (96h) > 10000 mg/L (Oncorhynchus mykiss (rainbow trout))	
Styrene 100-42-5	LC50 (72h) = 4.9 mg/L (Pseudokirchnerella subcapitata) EPA OTS 797.1050	EC50 (48h) = 4.7 mg/L (Daphnia magna) NOEC = 1.9 mg/L (Daphnia magna) OECD 202	LC50 (96h) = 4.02 - 10 mg/L (Pimephales promelas) OECD 203	EC (30min) = 500 mg/L (Activated sludge of a predominantly domestic sewage) OECD 209
Silica, amorphous, fumed, crystalline-free 112945-52-5		EL50 (24h) >= 1000 mg/L (Daphnia magna) OECD 202	LC50 (96h) > 10000 mg/L (Brachydanio rerio) OECD 203	
phthalic anhydride 85-44-9	EC50 (72h) = 68 mg/L, NOEC (72h) = 32 mg/L (Pseudokirchnerella subcapitata) OECD 201	EC50 (48h) = 71 mg/L (Daphnia magna) OECD 202	LC50 (96h) > 99 mg/L (Oryzias latipes) OECD 203	EC50 (3h) > 1000 mg/L (Activated sludge), ISO 8192 EC50 (16h) = 13 mg/L (Pseusomonas putida), ISO 10712
propane-1,2-diol 57-55-6	EC50 (72h) = 24200 mg/L (Pseudokirchnerella subcapitata) EC50 (48h) = 34100 mg/L (Pseudokirchnerella subcapitata) EC50 (96h) = 19000mg/L (Pseudokirchnerella subcapitata) OECD 201	LC50 (48h) = 18340 mg/L (Ceriodaphnia dubia) LC50 (96h) = 18800 mg/L (Americamysis bahia) EPA 600/4-90/0-27	LC50 (96h) = 40613 mg/L (Oncorhynchus mykiss)	CE50 (0.5h) > 1000 mg/L (Activated sludge) OECD 209 NOEC (18h) > 20000 mg/L (Pseudomonas putida)
Hydroquinone 123-31-9	ErC50 (72h) = 0.330 mg/L; NOEC (72h) (growth rate) = 0.019 mg/L (Pseudokirchnerella subcapitata) OECD 201	EC50 (48h) = 0.134 mg/L (Daphnia magna) OECD 202 NOEC (21d) = 0.0057 mg/L (Daphnia magna) OECD 211	LC50 (96h) = 0.638 mg/L (Oncorhynchus mykiss) OECD 203	

Chronic aquatic toxicity - Component Information

Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates.	Toxicity to fish	Toxicity to microorganisms
Styrene 100-42-5		NOEC (21d) = 1.01 mg/L (Daphnia magna) LOEC (21d) = 2.06 mg/L (Daphnia magna) EC50 (21d) = 1.88 mg/L (Daphnia magna) OECD 203		
phthalic anhydride 85-44-9		NOEC (reproduction) 21d = 16 mg/L, EC50 (reproduction) 21d = 42 mg/L (Daphnia magna) OECD 211	LC50 (7d) = 560 mg/L (Danio rerio), OECD 210 LOEC (total embryotoxicity) 60d = 32 mg/L, NOEC (mortality, lengh, weight, embryotoxicity) 60d = 10 mg/L, OECD 210	
propane-1,2-diol 57-55-6	NOEC (14d) = 15000 mg/L (Pseudokirchnerella subcapitata) OECD 201	NOEC (7d) = 13020 mg/L (Ceriodaphnia sp) EPA 600/4-89/001	NOEC (7d) = 11530 mg/L (Pimephales promelas) EPA 600/4-89/001	

Effects on terrestrial organisms - Component Information

Acute toxicity				
phthalic anhydride (85-44-9)				
Acute toxicity	Test Method	Species	Values	Remarks
plants		Lactuca sativa	EC50 (germination) = 731	
			mg/L	

Chronic toxicity		Chronic toxicity	
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	Styrene (100-42-5)				
Chronic toxicity	Method	Species	Values	Remarks	
Toxicity to invertebrates	OECD 207	Eisenia foetida	LC50 (14d) = 120 mg/kg soil dw LOEC (burrowing time and mean percent weight change) = 65 mg/kg soil dw LOEC (survival) = 180 mg/kg soil dw NOEC (mean percent weight change) = 34 mg/kg soil dw		

12.2. Persistence and degradability

Chemical Name	Biodegradation	Evaluation
Styrene 100-42-5	87% (20d) similar to OECD 301D	Readily biodegradable
phthalic anhydride 85-44-9	68 % (10d), 74 % (30d) OECD 301 D	Readily biodegradable
propane-1,2-diol 57-55-6	81,7 % (28d), OECD 301 F 95,8 % (64d), OECD 306	Readily biodegradable
Hydroquinone 123-31-9	70 % (14d) OECD 301C	Readily biodegradable

12.3. Bioaccumulative potential

Bioconcentration factor (BCF)			
Styrene (100-42-5)			
Method	Method Species Bioconcentration factor (BCF)		
Calculation method		74	

phthalic anhydride (85-44-9)		
Method	Species	Bioconcentration factor (BCF)
Calculation method		3.16 - 3.4

propane-1,2-diol (57-55-6)		
Method Species Bioconcentration factor (BCF)		Bioconcentration factor (BCF)
Calculation method		0.09

Hydroquinone (123-31-9)		
Method	Species	Bioconcentration factor (BCF)
no data available	Leuciscus idus melanotus	40 (3d)

Chemical Name	log Pow
Styrene 100-42-5	3
phthalic anhydride 85-44-9	1.6
propane-1,2-diol 57-55-6	-1.07
Hydroquinone 123-31-9	0.59

12.4. Mobility in soil

Chemical Name	LogKoc	Koc
Styrene 100-42-5	2.55	352
phthalic anhydride 85-44-9	-	31
propane-1,2-diol 57-55-6	0,46	-

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Hydroquinone	0.97 - 1.7	-
123-31-9		

12.5. Results of PBT and vPvB assessment

Chemical Name	PBT	vPvB
Limestone 1317-65-3		This substance is not considered to be very persistent nor very bioaccumulating (vPvB).
Styrene 100-42-5		This substance is not considered to be very persistent nor very bioaccumulating (vPvB).
Silica, amorphous, fumed, crystalline-free 112945-52-5		This substance is not considered to be very persistent nor very bioaccumulating (vPvB).
phthalic anhydride 85-44-9		This substance is not considered to be very persistent nor very bioaccumulating (vPvB).
propane-1,2-diol 57-55-6		This substance is not considered to be very persistent nor very bioaccumulating (vPvB).
Hydroquinone 123-31-9		This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

12.6. Autres effets néfastes

None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from Residues/Unused Products

Dispose of in accordance with the European Directives on waste and hazardous waste.

Do not flush into surface water or sanitary sewer system

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or

disposal.

Other information

According to the European Waste Catalogue, Waste Codes are not product specific, but

application specific.

Waste codes should be assigned by the user based on the application for which the

product was used.

SECTION 14: Transport information

14.1. UN number

ADR/RID UN1866 IMDG/IMO UN1866 ICAO/IATA UN1866 ADN UN1866

14.2. UN proper shipping name

ADR/RID

Resin solution

UN1866, RESIN SOLUTION, 3, PG III, (D/E)

IMDG/IMO

Resin solution

UN1866, RESIN SOLUTION, 3, PG III, (31°C c.c.)

ICAO/IATA

UN1866, RESIN SOLUTION, 3, PG III

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ADN

Resin solution

UN1866, RESIN SOLUTION, 3, PG III

14.3. Transport hazard class(es)

ADR/RID	
Hazard class	3
IMDG/IMO	
Hazard class	3
ICAO/IATA	
Hazard class	3
ADN	
Hazard class	3
Hazard Labels	3

14.4. Packing group

ADR/RID	III
IMDG/IMO	III
ICAO/IATA	III
ADN	III

14.5. Environmental hazards

ADR/RID	No
IMDG/IMO	No
Marine pollutant	No
ICAO/IATA	No
ADN	No

14.6. Special precautions for user

ADR/RID

Classification Code F1 640E Special Provisions **Tunnel restriction code** (D/E) **Limited quantity** 5 L

IMDG/IMO

F-E. S-E **EmS** Limited quantity 5 L

ICAO/IATA

ERG Code 3L 10 L Limited quantity

ADN

Classification Code F1 Limited quantity 5 L VE01 ventilation

Special precautions for users

Special precautions No information available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Transport in bulk according to MARPOL 73/78 and the IBC Code not applicable

SECTION 15: Regulatory information

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

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

European Union

Chemical Name	96/82/EC (SEVESO) - §9	96/82/EC (SEVESO) - §6, §7
Styrene - 100-42-5	50000	5000 tonnes
		50000 tonnes

National regulatory information

The United Kingdom

Avoid exceeding of the given occupational exposure limits (see section 8).

Ireland

Avoid exceeding of the given occupational exposure limits (see section 8).

15.2. Chemical safety assessment

not applicable

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3

H226 - Flammable liquid and vapour

H302 - Harmful if swallowed

H304 - May be fatal if swallowed and enters airways

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage

H319 - Causes serious eye irritation

H332 - Harmful if inhaled

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

H335 - May cause respiratory irritation

H341 - Suspected of causing genetic defects

H351 - Suspected of causing cancer

H361d - Suspected of damaging the unborn child

H372 - Causes damage to organs through prolonged or repeated exposure if inhaled

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

H412 - Harmful to aquatic life with long lasting effects

EUH208 - May produce an allergic reaction

Training Advice Handle in accordance with good industrial hygiene and safety practice. To avoid risks to

 $\mbox{\sc man}$ and the environment, comply with the instructions for use.

Sources of key data used to compile the datasheet

ECHA

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Revision Note SDS sections updated: 3, 11, 12

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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End of Safety Data Sheet

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