

SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006

SDS n° : 37390

TRADE LINE POLYESTER RESIN

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

1.1. Product identifier

Product name	TRADE LINE POLYESTER RESIN
Chemical Name	POLYESTER RESIN
Pure substance/mixture	Mixture

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

Identified uses	Laminating Resin.
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1.3. Details of the supplier of the safety data sheet

Supplier	CFSNET Ltd United Downs Industrial Park St Day, Redruth Cornwall TR16 5HY
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The supplier of the product is, among those indicated above, the one identified on the label and / or in the sales documents

For further information, please contact

E-mail address	sales@cfsnet.co.uk
Internet Address	www.cfsnet.co.uk

1.4. Telephone Numbers

Tel: +44 (0)1209 821028

Emergency tel: 0800 246 1274

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**Poison Information Centre
telephone number**

European emergency phone number : 112
 UK : National Poisons Emergency Number : 0344 892 0111
 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 - (H315)
Serious Eye Damage/Eye Irritation	Category 2 - (H319)
Skin Sensitization	Category 1 - (H317)
Reproductive Toxicity	Category 2 - (H361)
Specific Target Organ Toxicity (Single Exposure)	Category 3 - (H335)
Specific target organ toxicity - repeated exposure	Category 1 - (H372)
Chronic Aquatic Toxicity	Category 3 - (H412)
Flammable liquids	Category 3 - (H226)

2.2. Label elements

Contains Methyl methacrylate, alpha-methyl styrene, cobalt octoate, Styrene

**Signal word****Danger****Hazard statements**

H315 - Causes skin irritation
 H319 - Causes serious eye irritation
 H335 - May cause respiratory irritation
 H412 - Harmful to aquatic life with long lasting effects
 H361d - Suspected of damaging the unborn child
 H372 - Causes damage to hearing through prolonged or repeated exposure if inhaled
 H226 - Flammable liquid and vapour
 EUH208 - Contains Cobalt bis(2-ethylhexanoate). May produce an allergic reaction

Physical hazards

EU H -Phrases**Precautionary statements**

P201 - Obtain special instructions before use
 P501 - Dispose of contents/ container to an approved waste disposal plant
 P260 - Do not breathe mist/vapors/spray
 P202 - Do not handle until all safety precautions have been read and understood
 P314 - Get medical advice/attention if you feel unwell
 P308 + P313 - IF exposed or concerned: Get medical advice/attention
 P210 - Keep away from heat, sparks, open flames, hot surfaces. - No smoking
 P370 + P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish

2.3. Other hazards

No information available.

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SECTION 3: Composition/information on ingredients**3.2. Mixtures****Hazardous components**

Chemical Name	EC-No	REACH Registration Number	CAS-No	Weight percent	GHS Classification	M-Factor (acute)	M-Factor (chronic)	Concentrati on limit (%)
Styrene	202-851-5	01-2119457861-32	100-42-5	43 - 48	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)			
Methyl methacrylate	201-297-1	01-2119452498-28	80-62-6	1 - 3	Flam. Liq. 2 (H225) STOT SE 3 (H335) Skin Irrit. 2 (H315) Skin Sens. 1 (H317)			
Silica, amorphous, fumed, crystalline-free	231-545-4	01-2119379499-16	112945-52-5	<2.5	-			
alpha-methyl styrene	202-705-0	01-2119472426-35	98-83-9	1 - 3	Flam. Liq. 3 (H226) Asp. Tox. 1 (H304) Skin Sens. 1B (H317) Eye Irrit. 2 (H319) STOT SE 3 (H335) Repr. 2 (H361d) Aquatic Chronic 2 (H411)			STOT SE 3 :: C>=25%
Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated	297-629-8	01-2120752626-49	93685-81-5	0.1 - <1	Flam. Liq. 3 (H226) Asp. Tox. 1 (H304) Aquatic Chronic 4 (H413) (EUH066)		0	
cobalt octoate	205-250-6	01-2119524678-29	136-52-7	0.1 - <0.3	Skin Sens. 1A (H317) Eye Irrit. 2 (H319) Repr. 1B (H360Fd) Aquatic Acute 1 (H400) Aquatic Chronic 3 (H412)	1		

Additional information

Acute Toxicity Estimate See Section 11 for more information

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

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Skin contact	Wash 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
Protection of first-aiders	Use personal protective equipment 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 cause sensitisation by skin contact
Inhalation	Harmful: danger of serious damage to health by prolonged exposure through inhalation Irritating to respiratory system
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

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

Notes to physician	No information available
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Dry chemical, Foam, Carbon dioxide (CO ₂), (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

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

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

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 Empty containers may contain flammable or explosive vapours

Hygiene measures

When using, do not eat, drink or smoke Wash hands before breaks and at the end of workday. Provide regular cleaning of equipment, work area and clothing

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.

Materials to avoid

Strong oxidizing agents, Peroxides, Reducing agents

Packageing material

metallic GRP Tanks (Reinforced Glass Polyester)

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

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

No information available

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SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Occupational Exposure limits**

Chemical Name	European Union	ACGIH OEL (Ceiling)	The United Kingdom	Ireland
Styrene 100-42-5	-	ACGIH (2020): TLV-TWA: 10 ppm TLV-STEL/C: 20 ppm Notes: OTO, A3, BEI Critical effects: CNS and hearing impairment, URT irr, peripheral neuropathy visual disorders	STEL 250 ppm STEL 1080 mg/m ³ TWA 100 ppm TWA 430 mg/m ³	TWA 20 ppm TWA 85 mg/m ³ STEL 40 ppm STEL 170 mg/m ³
Methyl methacrylate 80-62-6		TWA 50 ppm, STEL 100 ppm (2007)	STEL 100 ppm STEL 416 mg/m ³ TWA 50 ppm TWA 208 mg/m ³	TWA 50 ppm STEL 100 ppm
alpha-methyl styrene 98-83-9	TWA 50 ppm TWA 246 mg/m ³ STEL 100 ppm STEL 492 mg/m ³	TWA 50 ppm	STEL 100 ppm STEL 491 mg/m ³ TWA 50 ppm TWA 246 mg/m ³	TWA 50 ppm TWA 246 mg/m ³ STEL 100 ppm STEL 490 mg/m ³
cobalt octoate 136-52-7		0.02 mg/m ³	STEL 0.3 mg/m ³ TWA 0.1 mg/m ³ Sen+	TWA 0.1 mg/m ³ Sensitizer

Special hazards arising from the substance or mixture**Biological standards****Derived No Effect Level (DNEL)**

Derived 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/m ³	
General Population - Acute Short Term - Local effect			182.7 mg/m ³	
General Population - Acute Short Term - Systemic effect			174.2 mg/m ³	
General Population - Long Term - Systemic effect	2.1 mg/Kg bw/day	343 mg/Kg bw/day	10.2 mg/m ³	

Methyl methacrylate (80-62-6)				
Type	DNEL oral	DNEL dermal	DNEL inhalation	Remark
Workers - Long Term - Systemic effect		13.67 mg/kg bw/day	208 mg/m ³	
Workers - Long Term - Local effect		1.5 mg/cm ²	208 mg/m ³	
Workers - Acute Short Term - Local effect		1.5 mg/cm ²		
General Population - Long Term - Systemic effect		8.2 mg/kg bw/day	74.3 mg/m ³	
General Population - Long Term - Local effect		1.5 mg/cm ²	104 mg/m ³	
General Population - Acute Short Term - Local effect		1.5 mg/cm ²		

Silica, amorphous, fumed, crystalline-free (112945-52-5)				
Type	DNEL oral	DNEL dermal	DNEL inhalation	Remark

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Workers - Long Term - Systemic effect			4 mg/m ³	
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alpha-methyl styrene (98-83-9)				
Type	DNEL oral	DNEL dermal	DNEL inhalation	Remark
Workers - Long Term - Systemic effect		2.8 mg/kg bw/day	246 mg/m ³	
Workers - Acute Short Term - Local effect			492 mg/m ³	
Workers - Long Term - Local effect		0.105 mg/cm ²		
General Population - Long Term - Systemic effect	0.1 mg/kg bw/day	1.4 mg/kg bw/day	4.83 mg/m ³	
General Population - Long Term - Local effect		0.052 mg/cm ²		

cobalt octoate (136-52-7)				
Type	DNEL oral	DNEL dermal	DNEL inhalation	Remark
Workers - Long Term - Local effect			235.1 µg/m ³	
General Population - Long Term - Systemic effect	175 µg/kg bw/day			
General Population - Long Term - Local effect			37 µg/m ³	

Predicted No Effect Concentration (PNEC)

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

Methyl methacrylate (80-62-6)		
Exposure	Type	PNEC
Fresh water	PNEC Aqua	0.94 mg/L
Marine water	PNEC Aqua	0.94 mg/L
Intermittent use/release	PNEC Aqua	0.94 mg/L
Fresh water	PNEC Sediment	5.74 mg/kg sediment dw
Terrestrial Compartment	PNEC Soil	1.47 mg/kg soil dw
	PNEC STP	10 mg/L

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

alpha-methyl styrene (98-83-9)		
Exposure	Type	PNEC
Fresh water	PNEC Aqua	0.008 mg/L
Marine water	PNEC Aqua	0.001 mg/L
Intermittent use/release	PNEC Aqua	0.01645 mg/L
Fresh water	PNEC Sediment	0.583 mg/kg sediment dw
Marine water	PNEC Sediment	0.0583 mg/kg sediment dw
	PNEC Soil	0.112 mg/kg soil dw

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	PNEC STP	66.15 mg/L
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cobalt octoate (136-52-7)		
Exposure	Type	PNEC
Fresh water	PNEC Aqua	0.62 µg/L
Marine water	PNEC Aqua	2.36 µg/L
STP microorganisms	PNEC STP	0.37 mg/L
Fresh water	PNEC Sediment	53.8 mg/kg sediment dw
Marine water	PNEC Sediment	69.8 mg/kg sediment dw
Terrestrial Compartment	PNEC Soil	10.9 mg/kg soil dw

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

Use personal protective equipment.

Respiratory protection

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

Eye protection

Safety glasses with side-shields. Do not wear contact lenses.

Skin and body protection

Antistatic boots. Protective shoes or boots. Wear fire/flame resistant/retardant clothing.

Hand protection

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	Remark
Physical state	Liquid	
Colour	yellow	
Appearance		No data available
Particle size		No data available
Odour	Pungent	
Odour Threshold	0.2 ppm	(styrene)
pH		No data available
pH (as aqueous solution)		No data available
Melting point/range	- -30 °C	(styrene)
Freezing Point		No data available
Softening point		No data available
Boiling point	146 °C	(styrene)
Flash point	32 °C	Seta closed cup
Flammability Limit in Air		
Upper	6.1%	(styrene)
Lower	1.1%	(styrene)

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Vapour pressure	6.7 hPa	(Styrene) @ 20°C
Vapour density	3.6 (Air = 1)	(styrene)
Density	1.1 g/cm ³	23°C
Specific Gravity	1.1 ±0.03	23°C
Bulk density		No data available
Water solubility	insoluble Insoluble in water (Water)	
Solubility in other solvents		No data available
Partition coefficient:	3	Values related to styrene
n-octanol/water		
Autoignition temperature	490 °C	(styrene)
Decomposition temperature		No data available
Viscosity, kinematic	182 - 227 mm ² /s	23°C
Viscosity, dynamic	900 - 1100 mPa.s	23 °C Brookfield Test Method

9.2. Other information

Information with regards to physical hazard classes

<u>Property</u>	<u>Values</u>	<u>Remark</u>
Explosives		No data available
Flammable gases		No data available
Aerosols		No data available
Oxidising gases		No data available
Gases under pressure		No data available
Flammable liquids		No data available
Flammable solids		No data available
Pyrophoric liquids		No data available
Pyrophoric solids		No data available
Self-heating substances and mixtures		No data available
Substances and mixtures which, in contact with water, emit flammable gases		No data available
Oxidising liquids		No data available
Oxidising solids		No data available
Oxidising Properties		No data available
Organic peroxides		No data available
Corrosive to metals		No data available
Desensitised explosives		No data available

Other safety characteristics

Sensitivity to Mechanical Impact		No data available
SAPT (self-accelerating polymerisation temperature)		No data available
Formation of explosible dust/air mixtures		No data available
Acid/alkaline reserve		No data available
Evaporation rate	0.49	(BuAc = 1) (Styrene)
Miscible		No data available
Conductivity		No data available
Corrosiveness		No data available
Gas group		No data available
Redox potential		No data available
Photocatalytic properties		No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

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

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10.2. Chemical stability

Stability Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

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

Hazardous polymerisation Polymerisation can occur.

10.4. Conditions to avoid

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 products Incomplete combustion and thermolysis produces potentially toxic gases such as carbon monoxide and carbon dioxide

SECTION 11: Toxicological information**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute toxicity**

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

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

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation	Read-across (Analogy)
Styrene 100-42-5	5000 mg/kg (Rat) OECD 401	> 2000 mg/kg bw (Rat) 24h OECD 402	11.8 mg/L (Rat) 4h CSR	
Methyl methacrylate 80-62-6	> 5000 mg/kg bw (Rat) OECD 401	> 5000 mg/kg bw (Rabbit) OECD 402	29.8 mg/L (7093 ppm) (Rat) 4h (vapor) OECD 403	
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	
alpha-methyl styrene 98-83-9	4900 mg/kg (Rat) OECD GHS	14560 mg/kg bw (Rabbit) OECD GHS	22.85 mg/L (Rat) 6h Vapour 41600 mg/m ³ (Rat) 8h Vapour	
Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated 93685-81-5	> 5000 mg/kg bw (Rat) Read across with : C9-C14 aliphatic, <2% aromatic hydrocarbons Similar to OECD 401	> 5000 mg/kg bw (Rabbit) Read across with : C9-C14 aliphatic, <2% aromatic hydrocarbons Similar to OECD 402	> 5000 mg/m ³ air (Rat) 4h Read across with : C9-C14 aliphatic, <2% aromatic hydrocarbons Similar to OECD 403	
cobalt octoate 136-52-7	3129 mg/kg/bw (Rat) OECD 425	> 2000 mg/kg bw (Rat) OECD 402		

Skin corrosion/irritation

Chemical Name	Skin corrosion/irritation	Read-across (Analogy)
Styrene 100-42-5	Irritating to skin in vivo assay rabbit	
Methyl methacrylate 80-62-6	Irritating to skin rabbit Draize Test	
Silica, amorphous, fumed, crystalline-free 112945-52-5	No skin irritation rabbit OECD 404	
alpha-methyl styrene 98-83-9	Mild skin irritation rabbit Classification of corrosive hazards, Federal Register, Vol 37, No 57, § 173.240	

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Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated 93685-81-5	No skin irritation in vivo assay rabbit similar to OECD 404	C9-C14 aliphatic, <2% aromatic hydrocarbons
cobalt octoate 136-52-7	No skin corrosion in vitro study OECD 431 EU Method B. 40	

Serious Eye Damage/Eye Irritation

Chemical Name	Serious Eye Damage/Eye Irritation	Read-across (Analogy)
Styrene 100-42-5	Irritating to eyes in vivo assay rabbit	
Methyl methacrylate 80-62-6	Mild eye irritation rabbit Draize Test	
Silica, amorphous, fumed, crystalline-free 112945-52-5	No eye irritation rabbit OECD 405	
alpha-methyl styrene 98-83-9	Irritating to eyes rabbit	
Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated 93685-81-5	No eye irritation in vivo assay (rabbit) OECD 405	C9-C14 aliphatic, <2% aromatic hydrocarbons
cobalt octoate 136-52-7	Moderate eye irritation OECD 437 EU Method B.47 Irritating to eyes rabbit OECD 405	

Respiratory or skin sensitisation May cause sensitisation by skin contact

Chemical Name	Respiratory or skin sensitisation	Read-across (Analogy)
Styrene 100-42-5	Does not cause skin sensitization Does not cause respiratory sensitization CSR	
Methyl methacrylate 80-62-6	May cause sensitisation by skin contact mouse OECD 429	
Silica, amorphous, fumed, crystalline-free 112945-52-5	Does not cause skin sensitization Does not cause respiratory sensitization	
alpha-methyl styrene 98-83-9	May cause sensitisation by skin contact mouse OECD 429 EU Method B.42	
Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated 93685-81-5	Does not cause skin sensitization in vivo assay guinea pig similar to OECD 406	C9-C14 aliphatic, <2% aromatic hydrocarbons
cobalt octoate 136-52-7	May cause sensitisation by skin contact in vivo assay mouse OECD 429	

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	

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Methyl methacrylate 80-62-6	negative In vitro gene mutation study in bacteria OECD 471	
Silica, amorphous, fumed, crystalline-free 112945-52-5	negative In vitro gene mutation study in bacteria OECD 471	
alpha-methyl styrene 98-83-9	negative In vitro gene mutation study in bacteria (S. typhimurium TA 1535, TA 1537, TA 98 and TA 100) (Escherichia coli WP2 uvrA) similar to OECD 471 OECD 472	
Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated 93685-81-5	negative In vitro gene mutation study in bacteria (S. typhimurium TA 1535, TA 1537, TA 98, TA100 and TA 102) OECD 471	C9-C14 aliphatic, <2% aromatic hydrocarbons
cobalt octoate 136-52-7	negative In vitro gene mutation study in bacteria (S. typhimurium TA 1535, TA 1537, TA 98, TA100 and TA 102) OECD 471	Cas N°: 68956-82-1, 14024-48-7

Chemical Name	In vitro Mammalian Cell Gene Mutation Test	Read-across (Analogy)
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	
alpha-methyl styrene 98-83-9	negative In vitro gene mutation study in mammalian cells hamster similar to OECD 476	
Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated 93685-81-5	negative In vitro gene mutation study in mammalian cells hamster similar to OECD 476	C9-C14 aliphatic, <2% aromatic hydrocarbons
cobalt octoate 136-52-7	negative In vitro gene mutation study in mammalian cells mouse OECD 476	Cas N°: 7440-48-4, 1308-06-1, 10124-43-3, 12016-80-7

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	
alpha-methyl styrene 98-83-9	negative Chromosome aberration test in vitro hamster similar to OECD 473	
Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated 93685-81-5	negative Chromosome aberration test in vitro Human lymphocytes similar to OECD 473	C9-C14 aliphatic, <2% aromatic hydrocarbons

in vivo assay

Chemical Name	Unscheduled DNA Synthesis (UDS)	Read-across (Analogy)
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Styrene 100-42-5	negative mouse OECD 486 OECD 474	
Methyl methacrylate 80-62-6	negative mouse OECD 478	
Silica, amorphous, fumed, crystalline-free 112945-52-5	negative rat	
alpha-methyl styrene 98-83-9	negative mouse similar to OECD 474	
Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated 93685-81-5	negative mouse similar to OECD 474	C9-C14 aliphatic, <2% aromatic hydrocarbons
cobalt octoate 136-52-7	negative rat OECD 474 OECD 475	Cas N°: 68956-82-1, 14024-48-7, 10026-24-1

Carcinogenicity**Carcinogenicity****Styrene (100-42-5)**

Routes of Exposure	Method	Species	Dose	Evaluation
Inhalation	OECD 453	rat	NOAEC systemic (carcinogenicity) $\geq$ 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) $\geq$ 2000 mg/kg bw /day	positive
Oral	No information available	mouse	LOAEL (carcinogenicity) = 150 mg/kg bw /day	positive

Methyl methacrylate (80-62-6)

Routes of Exposure	Method	Species	Dose	Evaluation
Inhalation	OECD 451	mouse	NOAEC (carcinogenicity, systemic toxicity) $\geq$ 4.1 mg/L air (male/female) LOAEC (local toxicity) = 2.05 mg/L air (male/female)	negative
Inhalation	OECD 451	rat	NOAEC (carcinogenicity) $\geq$ 2.05 mg/L air (female) NOAEC (carcinogenicity) $\geq$ 4.1 mg/L air (male) NOAEC (systemic toxicity) $\geq$ 2.05 mg/L air (male/female) LOAEC (local toxicity) = 1.03 mg/L air (male/female)	negative

Silica, amorphous, fumed, crystalline-free (112945-52-5)

Routes of Exposure	Method	Species	Dose	Evaluation
Oral	OECD 453	rat	NOAEL = 1800 - 3200 mg/kg bw/day	negative

alpha-methyl styrene (98-83-9)

Routes of Exposure	Method	Species	Dose	Evaluation
Inhalation	similar to OECD 451	mouse rat	LOAEC (male/female) 105 weeks = 100 ppm	negative

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Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated (93685-81-5)				
Routes of Exposure	Method	Species	Dose	Evaluation
Inhalation	Read-across (Analogy) CAS N°: 64742-88-7 similar to OECD 453	rat	NOAEC (105 weeks) >= 2200 mg/m³ air	negative

Reproductive toxicity

Reproductive toxicity				
Styrene (100-42-5)				
Routes of Exposure	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

Methyl methacrylate (80-62-6)				
Routes of Exposure	Method	Species	Dose	Evaluation
Oral	OECD 416	rat	NOAEL (general, systemic toxicity) = 50 mg/kg bw/day (male/female) NOAEL (fertility and reproductive performance) = 400 mg/kg bw/day (male/female) NOAEL (developmental toxicity) = 400 mg/kg bw/day (male/female)	negative

Silica, amorphous, fumed, crystalline-free (112945-52-5)				
Routes of Exposure	Method	Species	Dose	Evaluation
Oral	OECD 415	rat	NOAEL = 497 mg/kg bw/day	negative

alpha-methyl styrene (98-83-9)				
Routes of Exposure	Method	Species	Dose	Evaluation
Oral	OECD 422	rat	NOEL (parental females) = 200 mg/kg bw/day NOEL (parental males) = 1000 mg/kg bw/day	negative
Inhalation	similar to OECD 416	rat	NOAEC (systemic toxicity) male/female = 0.21 mg/L NOAEC (reproductive toxicity) male/female = 2.1 mg/L	negative

Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated (93685-81-5)				
Routes of Exposure	Method	Species	Dose	Evaluation
Oral	Read-across (Analogy) C9-C16 Aliphatics, 25% aromatics OECD 421 OECD 422	rat	NOAEL (reproductive & developmental toxicity) = 1000 mg/kg/day	negative

cobalt octoate (136-52-7)				
Routes of Exposure	Method	Species	Dose	Evaluation

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Oral	Read-across (Analogy) Cas N°: 7440-48-4 OECD 422	rat	NO(A)EL (P&F1) 28d = 30 mg/kg bw/day	positive
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Developmental Toxicity Suspected of damaging the unborn child.

Developmental Toxicity				
Styrene (100-42-5)				
Routes of Exposure	Method	Species	Dose	Evaluation
Inhalation	No information available	rat	NOAEC/LOAEC (maternal toxicity + developmental toxicity) >50d = 1.08 - 2.15 mg/L air	positive
Inhalation	OECD 414	rat	LOAEC (maternal toxicity) 6-15d = 1.28 mg/L air	positive
Inhalation	OECD 414	rat	NOAEC (developmental toxicity) 6-15d >= 2.56 mg/L air	negative
Inhalation	OECD 414	rabbit	NOAEC (maternal toxicity + developmental toxicity) 6-18d = 2.56 mg/L air	negative

Methyl methacrylate (80-62-6)				
Routes of Exposure	Method	Species	Dose	Evaluation
Inhalation	OECD 414	rat	LOEC (maternal toxicity) = 0.41 mg/L air NOAEC (fetotoxicity) >= 8.3 mg/L air NOAEC (teratogenicity) >= 8.3 mg/L air	negative
Oral	OECD 414	rabbit	NOAEL (maternal toxicity) = 50 mg/kg bw/day NOAEL (developmental toxicity) = 450 mg/kg bw/day	negative

Silica, amorphous, fumed, crystalline-free (112945-52-5)				
Routes of Exposure	Method	Species	Dose	Evaluation
Oral	OECD 414	rat	NOAEL (maternal toxicity) = 1350 mg/kg bw/day NOAEL (teratogenicity) = 1350 mg/kg bw/day	negative

alpha-methyl styrene (98-83-9)				
Routes of Exposure	Method	Species	Dose	Evaluation
Inhalation	similar to OECD 414 Read-across (Analogy) Cas N°: 100-42-5	rat rabbit	LOAEC (maternal toxicity) = 297 ppm NOAEC (developmental toxicity) = 600 ppm LOAEL (maternal toxicity) = 180 mg/kg bw/day NOAEL (developmental toxicity) = 300 mg/kg bw/day NOAEC (maternal toxicity) = 600 ppm	positive

Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated (93685-81-5)				
Routes of Exposure	Method	Species	Dose	Evaluation
Oral	Read-across (Analogy) C9-14 aliphatics (2-25% aromatic) OECD 414	rat	NOAEL (reproductive toxicity) male >= 3000 mg/kg/day NOAEL (reproductive toxicity) female >= 1500 mg/kg/day NOAEL (F1) = 750 mg/kg/day	negative

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

STOT - single exposure**alpha-methyl styrene (98-83-9)**

Routes of Exposure	Method	Species	Dose	Remarks
Inhalation	No information available		C >= 600 ppm	

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

STOT - repeated exposure**Styrene (100-42-5)**

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

Methyl methacrylate (80-62-6)

Routes of Exposure	Method	Species	Dose	Remarks
Oral	OECD 453	rat	NOAEL (male/female) >= 2000 ppm NOAEL (male) >= 124.1 mg/kg bw/day NOAEL >= 164 mg/kg bw/day	
Inhalation	OECD 453	rat	NOAEC (90d) = 1000 ppm	

Silica, amorphous, fumed, crystalline-free (112945-52-5)

Routes of Exposure	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/m³ air NOEC < 1.3 mg/m³ air 90d	
Dermal	No information available	rabbit	NOAEL >= 10000 mg/kg bw/day	

alpha-methyl styrene (98-83-9)

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Routes of Exposure	Method	Species	Dose	Remarks
Inhalation	similar to OECD 413	rat	NOAEC (male/female) 14 weeks = 300 ppm	

Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated (93685-81-5)

Routes of Exposure	Method	Species	Dose	Remarks
Oral	Read-across (Analogy) Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics similar to OECD 408	rat	NOAEL (90d) >= 5000 mg/kg bw/day	
Inhalation	Read-across (Analogy) Hydrocarbons, C10-C12, isoalkanes, < 2% aromatics similar to OECD 413	rat	NOAEL (90d) > 10400 mg/m ³ air	

cobalt octoate (136-52-7)

Routes of Exposure	Method	Species	Dose	Remarks
Oral	Read-across (Analogy) cobalt dichloride hexahydrate OECD 408	rat	NOAEL (90d) = 3 mg/kg bw/day	

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

11.2 Information on other hazards

Endocrine disrupting properties No information available

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

Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates.	Toxicity to fish	Toxicity to microorganisms
Styrene 100-42-5	EC50 (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
Methyl methacrylate 80-62-6	EC50 (72h) > 110 mg/L (Selenastrum capricornutum) OECD 201	EC50 (48h) = 69 mg/L (Daphnia magna) OECD 202	LC50 (96h) = 79 mg/L (Oncorhynchus mykiss) OECD 203	EC3 (16h) = 100 mg/L (Pseudomonas putida) inhibition test, Bringmann-Kühn
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	
alpha-methyl styrene 98-83-9	EC50 (72h) = 11.441 mg/L (Desmodesmus subspicatus) NOEC (72h) = 2.26 mg/L (Desmodesmus subspicatus) LOEC (72h) = 8.3 mg/L (Desmodesmus subspicatus) OECD 201, EU Method C.3	EC50 (48h) = 1.645 mg/L (Daphnia magna) EC10 (48h) = 0.99 mg/L (Daphnia magna) NOEC (48h) = 0.64 mg/L (Daphnia magna) LOEC (48h) = 1.21 mg/L (Daphnia magna) OECD 202, EU Method C.2	LC50 (96h) = 2.97 mg/L (Danio rerio) NOEC (96h) = 2.13 mg/L (Danio rerio) LOEC (96h) = 3.19 mg/L (Danio rerio) OECD 203, EU Method C.1	EC10 (3h) = 661.5 mg/L (Activated sludge of a predominantly domestic sewage) EC50 (3h) > 2 000 mg/L (Activated sludge of a predominantly domestic sewage) OECD 209, EU Method C.11

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Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated 93685-81-5	EL50 (72h) > 1000 mg/L (Pseudokirchneriella subcapitata) Read across with : Hydrocarbons, C10-C12, isoalkanes, <2% aromatics OECD 201	LL50 (48h) > 3000 mg/L (Daphnia magna) OECD 202	LL50 (96h) > 1000 mg/L (Oncorhynchus mykiss) Read across with : Hydrocarbons, C10-C12, isoalkanes, <2% aromatics OECD 203	EC50 (3h) > 100 mg/L (Activated sludge of a predominantly domestic sewage) Read across with : Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics OECD 209
cobalt octoate 136-52-7	EC50 (72h) = 144 µg Codiss./L (Pseudokirchneriella subcapitata) NOEC (72h) = 32.2 µg/L (Pseudokirchneriella subcapitata) LOEC (72h) = 52.7 µg Codiss./L (Pseudokirchneriella subcapitata) OECD 201		LC50 (96h) = 1.512 mg/L (Oncorhynchus mykiss) NOEC (96h) = 0.939 mg/L (Oncorhynchus mykiss) LOEC (96h) = 1.577 mg/L (Oncorhynchus mykiss) ASTM guideline (1996)	EC10 (30 min) = 3.73 mg/L (Activated sludge) EC50 (30 min) = 120 mg/L (Activated sludge) Read across with Cas N°: 7646-79-9 OECD 209

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		
Methyl methacrylate 80-62-6	NOEC (72h) = 49 mg/L (Selenastrum capricornutum) OECD 201	NOEC (21d) = 37 mg/L (Daphnia magna) OECD 211	NOEC (35d) = 9.4 mg/L, LOEC (35d) = 18.8 mg/L (Danio rerio) OECD 210	NOEC (28d) > 1000 mg/kg soil dw OECD Chemicals Testing Program UPEC/3
alpha-methyl styrene 98-83-9		NOEC (21d) = 0.401 mg/L (Daphnia magna) LC50 (21d) = 1.56 mg/L (Daphnia magna) EC50 (21d) = 1.11 mg/L (Daphnia magna) OECD 211		
Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated 93685-81-5		NOELR (21d) = 1 mg/l (Daphnia magna) OECD 211		
cobalt octoate 136-52-7	EC50 (7d) = 90.1 µg/L (Lemna minor) NOEC (7d) = 3.0 µg/L (Lemna minor) LOEC (7d) = 8.8 µg/L (Lemna minor) OECD 221	NOECR (21d) = 60.8 µg/L (Daphnia magna) LC50 (21d) = 121.3 mg/L (Daphnia magna) LOECR (21d) = 93.3 µg Codiss./L (Daphnia magna) OECD 211		

Effects on terrestrial organisms - Component Information

Chronic toxicity				
Styrene (100-42-5)				
Chronic toxicity	Method	Species	Values	Remarks

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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	
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12.2. Persistence and degradability

Chemical Name	Degradation	Evaluation
alpha-methyl styrene 98-83-9	Stable (pH = 4, 7, 9) 25°C OECD 111	Stable

Chemical Name	Biodegradation	Evaluation
Styrene 100-42-5	87% (20d) similar to OECD 301D	Readily biodegradable
Methyl methacrylate 80-62-6	94.3 % (14d) OECD 301 C	Readily biodegradable
alpha-methyl styrene 98-83-9	21% (28d) OECD 301F, EU Method C.4-D 56% (28d) OECD 301D, EU Method C.4-E	Not readily biodegradable
Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated 93685-81-5	68-89.8% (28d) Activated sludge, domestic, non-adapted Read across with : Hydrocarbons, C10-C13, isoalkanes, cyclics, <2% aromatics, Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics, Hydrocarbons, C11-C12, n-alkanes, <2% aromatics, Hydrocarbons, C12-C16, n-alkanes, isoalkanes, cyclics, <2% aromatics OECD 301 F	Readily biodegradable
cobalt octoate 136-52-7	60% (> 10d), OECD 301 B	Readily biodegradable

12.3. Bioaccumulative potential

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

Methyl methacrylate (80-62-6)		
Method	Species	Bioconcentration factor (BCF)
Calculation method QSAR		2.97

alpha-methyl styrene (98-83-9)		
Method	Species	Bioconcentration factor (BCF)
OECD 305 C	Cyprinus carpio	BCF (56d) = 15 - 140 (25°C) C = 0.3 mg/L BCF (56d) = 12 - 113 (25°C) C = 0.03 mg/L

Chemical Name	log Pow
Styrene 100-42-5	3
Methyl methacrylate 80-62-6	1.38
alpha-methyl styrene 98-83-9	3.48
Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated 93685-81-5	6.96

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12.4. Mobility in soil

Chemical Name	LogKoc	Koc
Styrene 100-42-5	2.55	352
Methyl methacrylate 80-62-6	0.94 - 1.86	-
alpha-methyl styrene 98-83-9	2.84	892

12.5. Results of PBT and vPvB assessment

Chemical Name	PBT	vPvB
Styrene 100-42-5	This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).	This substance is not considered to be very persistent nor very bioaccumulating (vPvB).
Methyl methacrylate 80-62-6	This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).	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 persistent, bioaccumulating nor toxic (PBT).	This substance is not considered to be very persistent nor very bioaccumulating (vPvB).
alpha-methyl styrene 98-83-9	This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).	This substance is not considered to be very persistent nor very bioaccumulating (vPvB).
Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated 93685-81-5	This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).	This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

12.6 Endocrine disrupting properties

Endocrine disrupting properties No information available

12.7 Other Adverse Effects

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 or ID number**

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

14.2. UN proper shipping name

ADR/RID
RESIN SOLUTION

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

IMDG/IMO

RESIN SOLUTION

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

ICAO/IATA

RESIN SOLUTION

UN1866, RESIN SOLUTION, 3, PG III

ADN

Resin solution

UN1866, RESIN SOLUTION, 3, PG III

14.3. Transport hazard class(es)**ADR/RID**

Hazard class 3

IMDG/IMO

Hazard class CLASS 3

ICAO/IATA

Hazard class 3

ADN

Hazard class 3

14.4. Packing group**ADR/RID** III**IMDG/IMO** PG III**ICAO/IATA** III**ADN** III**14.5. Environmental hazards****ADR/RID** No**IMDG/IMO** No**Marine pollutant** No**ICAO/IATA** None**ADN** No**14.6. Special precautions for user****ADR/RID**

Classification Code F1

Tunnel restriction code D/E

Limited quantity 5 L

IMDG/IMO

EmS F-E, S-E

Limited quantity 5 L

ICAO/IATA

ERG Code 3L

Limited quantity 10 L

ADN

Classification Code F1

Limited quantity 5 L

ventilation VE01

Special precautions for users

Special precautions No information available

14.7. Maritime transport in bulk according to IMO instruments

Transport in bulk according to Annex II of MARPOL and the IBC Code not applicable

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

Regulation (EC) No. 1907/2006 (REACH)

Regulation (EC) No. 1272/2008 (CLP)

Regulation (EU) No. 2020/878

Directive 88/642/EEC

Directive 98/24/EC

Directive 1999/92/EC

Directive 2012/18/EU

The mixture is subject to restrictions on use, see Annex XVII of the Regulation 1907/2006/EC (REACH): Column 1, n° 3; Column 1, n° 40.

European Union

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

Chemical Safety Assessment

Yes

Exposure scenario

Relevant information for risk control are communicated in the form of exposure scenario attached to the safety data sheet.

SECTION 16: Other information**Full text of H-Statements referred to under sections 2 and 3**

H225 - Highly flammable liquid and vapour

H226 - Flammable liquid and vapour

H304 - May be fatal if swallowed and enters airways

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

H332 - Harmful if inhaled

H335 - May cause respiratory irritation

H360Fd - May damage fertility. Suspected of damaging the unborn child

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

H411 - Toxic to aquatic life with long lasting effects

H412 - Harmful to aquatic life with long lasting effects

H413 - May cause long lasting harmful effects to aquatic life

EUH066 - Repeated exposure may cause skin dryness or cracking

Training Advice

Handle in accordance with good industrial hygiene and safety practice. To avoid risks to man and the environment, comply with the instructions for use.

Sources of key data used to compile the datasheet

ECHA

SDS n° : 37390

TRADE LINE POLYESTER RESIN

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Revision Note New ANNEX II Regulation (EU) No. 2020/878

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.

End of Safety Data Sheet