

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

SDS n°: 37390 TRADE LINE POLYESTER RESIN Page 1/23

Former date 21-Jun-2022 Revision date 02-Dec-2022 Version: 2

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.

1.3. Details of the supplier of the safety data sheet

Supplier CFSNET Ltd

United Downs Industrial Park

St Day, Redruth

Cornwall TR16 5HY

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 2460 1274

: 37390

TRADE LINE POLYESTER RESIN

Former date 21-Jun-2022 Revision date 02-Dec-2022 Version: 2

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

Page 2 / 23

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

EU H -Phrases EUH208 - Contains Cobalt bis(2-ethylhexanoate). May produce an allergic reaction

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.

Physical hazards

TRADE LINE POLYESTER RESIN

Page 3 / 23

Former date 21-Jun-2022 Revision date 02-Dec-2022 Version: 2

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

TRADE LINE POLYESTER RESIN

Former date 21-Jun-2022 Revision date 02-Dec-2022 Version: 2

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

Do NOT induce vomiting Ingestion

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

Irritating to eyes **Eye Contact** 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

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

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

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

Page 4 / 23

TRADE LINE POLYESTER RESIN

Former date 21-Jun-2022 Revision date 02-Dec-2022 Version: 2

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

Page 5 / 23

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

metallic GRP Tanks (Reinforced Glass Polyester) Packageing material

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

7.3. Specific end use(s)

Specific use(s) No information available

TRADE LINE POLYESTER RESIN

Page 6 / 23

Former date 21-Jun-2022 Revision date 02-Dec-2022 Version: 2

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/m³ TWA 100 ppm TWA 430 mg/m³	TWA 20 ppm TWA 85 mg/m³ STEL 40 ppm STEL 170 mg/m³
Methyl methacrylate 80-62-6		TWA 50 ppm, STEL 100 ppm (2007)	STEL 100 ppm STEL 416 mg/m³ TWA 50 ppm TWA 208 mg/m³	TWA 50 ppm STEL 100 ppm
alpha-methyl styrene 98-83-9	TWA 50 ppm TWA 246 mg/m³ STEL 100 ppm STEL 492 mg/m³	TWA 50 ppm	STEL 100 ppm STEL 491 mg/m³ TWA 50 ppm TWA 246 mg/m³	TWA 50 ppm TWA 246 mg/m³ STEL 100 ppm STEL 490 mg/m³
cobalt octoate 136-52-7	-	0.02 mg/m³	STEL 0.3 mg/m³ TWA 0.1 mg/m³ Sen+	TWA 0.1 mg/m³ 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)					
Туре	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)				
Туре	DNEL oral	DNEL dermal	DNEL inhalation	Remark
Workers - Long Term - Systemic effect		13.67 mg/kg bw/day	208 mg/m³	
Workers - Long Term - Local effect		1.5 mg/cm²	208 mg/m³	
Workers - Acute Short Term - Local effect		1.5 mg/cm²		
General Population - Long Term - Systemic effect		8.2 mg/kg bw/day	74.3 mg/m³	
General Population - Long Term - Local effect		1.5 mg/cm²	104 mg/m³	
General Population - Acute Short Term - Local effect		1.5 mg/cm²		

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

TRADE LINE POLYESTER RESIN

Page 7 / 23

Former date 21-Jun-2022 Revision date 02-Dec-2022 Version: 2

Workers - Long Term -		4 mg/m³	
Systemic effect			

	alpha-methyl styrene (98-83-9)				
Туре	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/m³		
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/m³		

Predicted No Effect Concentration (PNEC)

	PNEC Component	
	Styrene (100-42-5)	
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

Methyl methacrylate (80-62-6)				
Exposure	Туре	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	Туре	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

TRADE LINE POLYESTER RESIN

Page 8 / 23

69.8 mg/kg sediment dw

10.9 mg/kg soil dw

Former date 21-Jun-2022 Revision date 02-Dec-2022 Version: 2

	PNEC STP	66.15 mg/L
	cobalt octoate (136-52-7)	
Exposure	Туре	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

PNEC Sediment

PNEC Soil

8.2. Exposure controls

Occupational exposure controls

Marine water Terrestrial Compartment

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

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

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

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

SDS n°: 37390 Page 9 / 23

TRADE LINE POLYESTER RESIN

Revision date 02-Dec-2022 Version: 2 Former date 21-Jun-2022

Vapour pressure 6.7 hPa (Styrene) @ 20°C

Vapour density 3.6 (Air = 1)(styrene) **Density** 1.1 g/cm3 23°C **Specific Gravity** 23°C 1.1 ±0.03

Bulk density No data available

Water solubility insoluble Insoluble in water (Water) Solubility in other solvents

No data available Partition coefficient: Values related to styrene

n-octanol/water

Autoignition temperature 490 °C (styrene)

Decomposition temperature No data available 182 - 227 mm2/s Viscosity, kinematic 23°C

900 - 1100 mPa.s 23 °C Brookfield Test Method Viscosity, dynamic

9.2. Other information

Information with regards to physical hazard classes

<u>Property</u>	<u>Values</u>	Remark
Explosive		No data available
S		
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		No data available
mixtures		
•	contact with water, emit flammable	No data available
gases		
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		No data available
polymerisation temperature)		
Formation of explosible dust/air		No data available
mixtures		
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

TRADE LINE POLYESTER RESIN

Page 10 / 23

Revision date 02-Dec-2022 Former date 21-Jun-2022 Version: 2

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

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

monoxide and carbon dioxide products

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)	> 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/m³ (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/m³ 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	

TRADE LINE POLYESTER RESIN

Page 11 / 23

Former date 21-Jun-2022 Revision date 02-Dec-2022 Version: 2

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	Ambiguous	
100-42-5	In vitro gene mutation study in bacteria	
	(S. typhimurium G46, TA1530, TA 1535, TA100, TA98,	
	TA1538, TA 1537)	
	OECD 471	

SDS n°: 37390 Page 12 / 23

TRADE LINE POLYESTER RESIN

Former date 21-Jun-2022 Revision date 02-Dec-2022 Version: 2

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)

TRADE LINE POLYESTER RESIN

Page 13 / 23

Former date 21-Jun-2022 Revision date 02-Dec-2022 Version: 2

Styrene	negative	
100-42-5	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) >= 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		

Methyl methacrylate (80-62-6)	Methyl methacrylate (80-62-6)				
Routes of Exposure	Method	Species	Dose	Evaluation	
Inhalation	OECD 451	mouse	NOAEC (carcinogenicity, systemic toxicity) >= 4.1 mg/L air (male/female) LOAEC (local toxicity) = 2.05 mg/L air (male/female)	negative	
Inhalation	OECD 451	rat	NOAEC (carcinogenicity) >= 2.05 mg/L air (female) NOAEC (carcinogenicity) >= 4.1 mg/L air (male) NOAEC (systemic toxicity) >= 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		LOAEC (male/female) 105 weeks = 100 ppm	negative		

Oral

TRADE LINE POLYESTER RESIN

Page 14 / 23

Former date 21-Jun-2022 Revision date 02-Dec-2022 Version: 2

	utadiene-free, polymd., triisobu	<u>, </u>	<u> </u>	
Routes of Exposure	Method	Species	Dose	Evaluation
nhalation	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-				
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)	
	d, crystalline-free (112945-52-5)	1	T-	T=
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) =	negative
		+.	1000 mg/kg bw/day	
Inhalation	similar to OECD 416	rat	NOAEC (systemic toxicity) male/female = 0.21 mg/L NOAEC (reproductive toxicity) male/female = 2.1 mg/L	
Uvdroorbors C4 4 2 L-	stadiona fron national tuitt	hulana fuastisus I	draganated (02695 94 5)	
· · · ·	utadiene-free, polymd., triisobu	· · ·		E l
Routes of Exposure	Method	Species	Dose	Evaluation

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

rat

NOAEL (reproductive &

developmental toxicity) = 1000 mg/kg/day

negative

Read-across (Analogy) C9-C16 Aliphatics, 25% aromatics OECD 421 OECD 422

TRADE LINE POLYESTER RESIN

Page 15 / 23

Former date 21-Jun-2022 Revision date 02-Dec-2022 Version: 2

Oral	Read-across (Analogy)	rat	NO(A)EL (P&F1) 28d = 30	positive
	Cas N°: 7440-48-4 OECD		mg/kg bw/day	
	422			

Developmental Toxicity	Suspected of d	amaging the unbo	orn child.	
Developmental Toxicity				
Styrene (100-42-5)				
Routes of Exposure	Method	Species	Dose	Evaluation
Inhalation	No information available	rat	NOAEC/LOAEC (maternal toxicity + developemental toxicity) >50d = 1.08 - 2.15 mg/L air	
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

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) I = 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	, 0		

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	

Routes of Exposure	Method	Species	Dose	Evaluation
Oral	Read-across (Analogy)	rat	NOAEL (reproductive	negative
	C9-14 aliphatics (2-25%		toxicity) male >= 3000	
	aromatic) OECD 414		mg/kg/day	
	,		NOAEL (reproductive	
			toxicity) female >= 1500	
			mg/kg/day	
			NOAEL (F1) = 750	
			mg/kg/day	

TRADE LINE POLYESTER RESIN

Page 16 / 23

Former date 21-Jun-2022 Revision date 02-Dec-2022 Version: 2

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

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, tumed	I, 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	
nhalation	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)

TRADE LINE POLYESTER RESIN

Former date 21-Jun-2022 Revision date 02-Dec-2022 Version: 2

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/m³ 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

Page 17 / 23

TRADE LINE POLYESTER RESIN

Page 18 / 23

Former date 21-Jun-2022 Revision date 02-Dec-2022 Version: 2

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

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				

TRADE LINE POLYESTER RESIN

Page 19 / 23

Former date 21-Jun-2022 Revision date 02-Dec-2022 Version: 2

Toxicity to invertebrates	OECD 207	Eisenia foetida	LC50 (14d) = 120 mg/kg	
Toxicity to invertebrates	OLOD 201	Liscilla loctida	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	Degradation	Evaluation	
alpha-methyl styrene	Stable (pH = 4, 7, 9) 25°C	Stable	
98-83-9	OECD 111		

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, C11-C12, C12-C16, n-alkanes, isoalkanes, cyclics, <2% aromatics	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	'' '	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

TRADE LINE POLYESTER RESIN

Page 20 / 23

Revision date 02-Dec-2022 Former date 21-Jun-2022 Version: 2

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

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

14.2. UN proper shipping name

ADR/RID

RESIN SOLUTION

SDS n°: 37390 Page 21 / 23

TRADE LINE POLYESTER RESIN

Revision date 02-Dec-2022 Former date 21-Jun-2022 Version: 2

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

Ш ADR/RID PG III **IMDG/IMO** Ш ICAO/IATA Ш **ADN**

14.5. Environmental hazards

No ADR/RID No **IMDG/IMO 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 SDS n°: 37390 Page 22 / 23

TRADE LINE POLYESTER RESIN

Former date 21-Jun-2022 Revision date 02-Dec-2022 Version: 2

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 <u>mixture</u>

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).

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

Page 23 / 23

Former date 21-Jun-2022 Revision date 02-Dec-2022 Version: 2

Former date 21-Jun-2022 Revision date 02-Dec-2022

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