

GELCOAT POLYESTER ISOPHTHALIC SPRAY LOW STYRENE WHITE

Product Name:	Gelcoat Polyester Isophthalic Spray Low Styrene White 1334497 Rev. 1
Revision Date:	29-Aug-2023 According to Regulation (EC) No. 1907/2006

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product Identifier

Product Name:	Gelcoat Polyester Isophthalic Spray Low Styrene White
Chemical Name:	Gel Coat polyester for composites.
Product Form:	Mixture

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

Identified uses:	To form a protective and decorative layer for GRP composites. Contact us before using for food contact application.
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1.3. Details of the supplier of the safety data sheet

Tricel Composites (GB) Limited

Unit A, Foxway,
Off Atkinson Street,
Leeds, West Yorkshire,
LS10 1PS.

Tricel Composites (NI) Limited

Unit 4, Milltown Ind. Estate, Greenan
Road. Warrenpoint, Newry
Co. Down,
BT34 3FN.

Tel: +44 (0)113 270 3133

Tel: +44 (0)284 175 3738

1.4. Emergency Telephone Number

Emergency medical information: 8am-10pm (seven days) contact National Poisons Information Centre, Beaumont Hospital, Dublin 9 DOV2NO, Ireland.

Telephone Number: +353 (0)1 809 2166

Leeds:	Newry:
Tel: +44 (0)113 270 3133	Tel: +44 (0)284 175 3738

1.4.1. 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)

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 - (H361d)
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



Signal Word: Danger

2.2.1. Hazard Statements

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

H335 - May cause respiratory irritation

H361d - Suspected of damaging the unborn child

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

H412 - Harmful to aquatic life with long lasting effects

Physical hazards

H226 - Flammable liquid and vapour

2.2.2. Precautionary Statements

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

P243 - Take action to prevent static discharges

P260 - Do not breathe vapour

P273 - Avoid release to the environment

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

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

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

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

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

2.3. Other Hazards

PBT/vPvB see section 12.5.

3. Composition/Information on Ingredients

3.1. Substances

Not applicable

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	28 - 33	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)			
Talc	238-877-9	01-2120140278-58	14807-96-6	7 - 11	-			
Titanium dioxide	236-675-5	01-2119489379-17	13463-67-7	6 - 10	-			
Methyl methacrylate	201-297-1	01-2119452498-28	80-62-6	4 - 6	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	0.1 - < 2	-			
Amorphous Silica	231-545-4	01-2119379499-16	7631-86-9	0.1 - < 2	-			
(2- methoxymethyleth o xy)propanol	252-104-2	01-2119450011-60	34590-94-8	0.1 - < 1	-			

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)			
Quartz (SiO ₂)	238-878-4	01-2120770509-45	14808-60-7	0.1 - < 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

4. First Aid Measures

4.1. Description of First Aid Measures

General advice Show this safety data sheet to the doctor in attendance Do not breathe dust/fume/gas/mist/vapours/spray

Eye Contact Rinse thoroughly with plenty of water, also under the eyelids. Keep eye wide open while rinsing. If symptoms persist, call a physician

Skin 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

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

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.

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

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 measure

/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 Aluminium, copper, Copper alloys, Bronze, Zinc

7.3. Specific end use(s)

No information available

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
Talc 14807-96-6		TWA 2 mg/m ³	STEL 3 mg/m ³ TWA 1 mg/m ³	TWA 10 mg/m ³ TWA 0.8 mg/m ³
Titanium dioxide 13463-67-7		TWA 10 mg/m ³	STEL 30 mg/m ³ STEL 12 mg/m ³ TWA 10 mg/m ³ TWA 4 mg/m ³	TWA 10 mg/m ³ TWA 4 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
Amorphous Silica 7631-86-9			STEL 18 mg/m ³ STEL 7.2 mg/m ³ TWA 6 mg/m ³ TWA 2.4 mg/m ³	TWA 6 mg/m ³ TWA 2.4 mg/m ³
(2-methoxymethylethoxy)propanol 34590-94-8	TWA 50 ppm TWA 308 mg/m ³ S*	TWA 100 ppm	STEL 150 ppm STEL 924 mg/m ³ TWA 50 ppm TWA 308 mg/m ³ Skin	TWA 50 ppm TWA 308 mg/m ³ Skin
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
Quartz (SiO ₂) 14808-60-7	0.3 mg/m ³	TWA 0.025 mg/m ³	STEL 0.3 mg/m ³ TWA 0.3 mg/m ³	TWA 0.1 mg/m ³ STEL 0.05 ppm

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	

Talc (14807-96-6)				
Type	DNEL oral	DNEL dermal	DNEL inhalation	Remark
Workers - Acute Short term - Systemic effect			2.16 mg/m ³	
Workers - Acute Short Term - Local effect			3.6 mg/m ³	
Workers - Long Term - Systemic effect		43.2 mg/kg bw/day	2.16 mg/m ³	
Workers - Long Term - Local effect		4.54 mg/cm ²	3.6 mg/m ³	
General Population - Acute Short Term - Systemic effect			1.08 mg/m ³	
General Population - Acute Short Term - Local effect			1.8 mg/m ³	
General Population - Long Term - Systemic effect	160 mg/kg bw/day	21.6 mg/kg bw/day	1.08 mg/m ³	

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General Population - Long Term - Local effect		2.27 mg/cm ²	1.8 mg/m ³	
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Titanium dioxide (13463-67-7)				
Type	DNEL oral	DNEL dermal	DNEL inhalation	Remark
Workers - Long Term - Local effect			10 mg/m ³	
General Population - Long Term - Systemic effect	700 mg/kg bw/day			

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
Workers - Long Term - Systemic effect			4 mg/m ³	

Amorphous Silica (7631-86-9)				
Type	DNEL oral	DNEL dermal	DNEL inhalation	Remark
Workers - Long Term - Systemic effect			4 mg/m ³	

(2-methoxymethylethoxy)propanol (34590-94-8)				
Type	DNEL oral	DNEL dermal	DNEL inhalation	Remark
Workers - Long Term - Systemic effect		283 mg/kg bw/day	308 mg/m ³	
General Population - Long Term - Systemic effect	36 mg/kg bw/day	121 mg/kg bw/day	37.2 mg/m ³	

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

Talc (14807-96-6)		
Exposure	Type	PNEC
Marine water	PNEC Aqua	141.26 mg/L

Fresh water	PNEC Aqua	597.97 mg/L
Marine water	PNEC Sediment	3.13 mg/kg sediment dw
Fresh water	PNEC Sediment	31.33 mg/kg sediment dw

Titanium dioxide (13463-67-7)

Exposure	Type	PNEC
Fresh water	PNEC Aqua	0.184 mg/L
Marine water	PNEC Aqua	0.0184 mg/L
Intermittent use/release	PNEC Aqua	0.193 mg/L
	PNEC STP	100 mg/L
Fresh water	PNEC Sediment	1000 mg/kg sediment dw
Marine water	PNEC Sediment	100 mg/kg sediment dw
	PNEC Soil	100 mg/kg soil dw

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

Amorphous Silica (7631-86-9)

Exposure	Type	PNEC
Secondary Poisoning	PNEC Oral	60000 mg/kg

(2-methoxymethylethoxy)propanol (34590-94-8)		
Exposure	Type	PNEC
Marine water	PNEC Aqua	1.9 mg/L
Fresh water	PNEC Aqua	19 mg/L
Intermittent use/release	PNEC Aqua	190 mg/L
	PNEC STP	4168 mg/L
Fresh water	PNEC Sediment	70.2 mg/kg sediment dw
Marine water	PNEC Sediment	7.02 mg/kg sediment dw
	PNEC Soil	2.74 mg/kg soil dw

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.

9. Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Property	Values	Remark
Physical state	Liquid	
Colour	Variable (This Data Sheet includes all the colours)	
Appearance		No data available
Particle size		No data available
Odour	Styrene	
Odour Threshold	0.15 ppm	Values related to styrene
pH		No data available

pH (as aqueous solution)		No data available
Melting point/range	- 30 °C	Values related to styrene
Freezing Point		No data available
Softening point		No data available
Boiling point	58 °C	
Flash point	23 °C	
Flammability		No data available
Flammability Limit in Air Upper		
Upper	12.5 %	Values related to methyl methacrylate
Lower	1.1 %	Values related to styrene
Vapour pressure	1 kPa	
Vapour density	3.6	
Density	1.2 - 1.3 g/cm ³	
Specific Gravity		No data available
Bulk density		No data available
Water solubility	Insoluble in water	
Solubility in other solvents		No data available
Partition coefficient: n-octanol/water	3	Values related to styrene
Autoignition temperature	490 °C	Values related to styrene
Decomposition temperature		No data available
Viscosity, kinematic	141670 - 175000	mm ² /s
Viscosity, dynamic	170000 - 210000	mPa.s

9.2. Other Information

Information with regards to physical hazard classes

Property	Values	Remark
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
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

10. Stability and Reactivity

10.1. Reactivity

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

10.2. Chemical stability

Stability Stable under recommended storage conditions

10.3. Possibility of hazardous reactions

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

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	
Talc 14807-96-6	> 5000 mg/kg bw (Rat) OECD 423	> 2000 mg/kg bw (Rat) OECD 402		
Titanium dioxide 13463-67-7	> 5000 mg/kg bw (Rat) OECD 425, EPA OPPTS 870.1100		> 6,82 mg/L air (Rat) 4h No guideline followed	
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	

Amorphous Silica 7631-86-9	> 5000 mg/kg bw (Rat) OECD 401	> 5000 mg/kg (Rabbit)	> 0.14 mg/L air (Rat) 4h (analytical) OECD 403	
(2-methoxymethylethoxy)propanol 34590-94-8	> 5000 mg/kg bw (Rat) Similar to OECD 401	9510 mg/kg bw (Rabbit) 24h Similar to OECD 402	LC0 (7h) > 275 ppm (1667 mg/m ³) (Rat) 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	
Talc 14807-96-6	No skin irritation in vivo assay in vitro study rabbit OECD 404 EU Method B.46	
Titanium dioxide 13463-67-7	No skin irritation in vivo assay rabbit OECD 404 EPA OPPTS 870.2500	
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	
Amorphous Silica 7631-86-9	No skin irritation rabbit OECD 404	
(2-methoxymethylethoxy)propanol 34590-94-8	No skin irritation in vivo assay rabbit similar to OECD 404	
cobalt octoate 136-52-7	No skin corrosion in vitro study OECD 431 EU Method B. 40	
Quartz (SiO ₂) 14808-60-7	No skin irritation	

Serious eye damage/irritation

Chemical Name	Serious Eye Damage/Eye Irritation	Read-across (Analogy)
Styrene 100-42-5	Irritating to eyes in vivo assay rabbit	
Talc 14807-96-6	No eye irritation in vivo assay (rabbit) OECD 405	

Titanium dioxide 13463-67-7	No eye irritation in vivo assay rabbit OECD 405 EU Method B.5 EPA OPPTS 870.2400	
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	
Amorphous Silica 7631-86-9	No eye irritation rabbit OECD 405	
(2-methoxymethylethoxy)propanol 34590-94-8	No eye irritation in vivo assay	
cobalt octoate 136-52-7	Moderate eye irritation OECD 437 EU Method B.47 Irritating to eyes rabbit OECD 405	
Quartz (SiO ₂) 14808-60-7	No eye irritation	

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	
Talc 14807-96-6	Does not cause skin sensitization in vivo assay guinea pig OECD 406	
Titanium dioxide 13463-67-7	Does not cause skin sensitization in vivo assay guinea pig OECD 406 EU Method B.6 EPA OPP 81-6 mouse similar to OECD 429	
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	
Amorphous Silica 7631-86-9	Does not cause skin sensitization Does not cause respiratory sensitization	
(2-methoxymethylethoxy)propanol 34590-94-8	Does not cause skin sensitization in vivo assay	

cobalt octoate 136-52-7	May cause sensitisation by skin contact in vivo assay mouse OECD 429	
Quartz (SiO ₂) 14808-60-7	Does not cause skin sensitization	

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	
Talc 14807-96-6	negative In vitro gene mutation study in bacteria Salmonella sp. similar to OECD 471 EU Method B.13/14	
Titanium dioxide 13463-67-7	negative In vitro gene mutation study in bacteria (S. typhimurium TA 1535, TA 1537, TA 98, TA100 and TA 102) OECD 471	
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	
Amorphous Silica 7631-86-9	negative In vitro gene mutation study in bacteria OECD 471	
(2-methoxymethylethoxy)propanol 34590-94-8	negative In vitro gene mutation study in bacteria (Escherichia coli WP2 uvrA) similar to OECD 471	
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	
Titanium dioxide 13463-67-7	negative In vitro gene mutation study in mammalian cells mouse OECD 476	
Silica, amorphous, fumed, crystalline-free 112945-52-5	negative In vitro gene mutation study in mammalian cells OECD 476	
Amorphous Silica 7631-86-9	negative In vitro gene mutation study in mammalian cells OECD 476	
(2-methoxymethylethoxy)propanol 34590-94-8	negative In vitro gene mutation study in mammalian cells rat similar to OECD 482	
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	
Talc 14807-96-6	negative Chromosome aberration test in vitro rat similar to OECD 473 EU Method B.10	
Titanium dioxide 13463-67-7	negative Chromosome aberration test in vitro hamster OECD 473	
Silica, amorphous, fumed, crystalline-free 112945-52-5	negative Chromosome aberration test in vitro OECD 473	
Amorphous Silica 7631-86-9	negative Chromosome aberration test in vitro OECD 473	
(2-methoxymethylethoxy)propanol 34590-94-8	negative Chromosome aberration test in vitro hamster similar to OECD 473	

in vivo assay

Chemical Name	Unscheduled DNA Synthesis (UDS)	Read-across (Analogy)
Styrene 100-42-5	negative mouse OECD 486 OECD 474	
Titanium dioxide 13463-67-7	negative rat OECD 474	
Methyl methacrylate 80-62-6	negative mouse OECD 478	
Silica, amorphous, fumed, crystalline-free 112945-52-5	negative rat	
Amorphous Silica 7631-86-9	negative rat	
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

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Talc (14807-96-6)				
Routes of Exposure	Method	Species	Dose	Evaluation
Oral	OECD 453	rat	NOAEL (101d) = 100 mg/kg bw/day	negative
Inhalation	OECD 453	mouse	NOAEC (104 weeks) = 6-18 mg/m ³ air	negative
Inhalation	OECD 453	rat	NOAEC = 6-18 mg/m ³ air	negative

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

Amorphous Silica (7631-86-9)				
Routes of Exposure	Method	Species	Dose	Evaluation

Oral	OECD 453	rat	NOAEL = 1800 - 3200 mg/kg bw/day	negative
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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

Talc (14807-96-6)

Routes of Exposure	Method	Species	Dose	Evaluation
Oral	similar to OECD 416	rabbit	NOAEL (reproduction & F1) > 900 mg/kg bw/day	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)	negative

			= 400 mg/kg bw/day (male/female) NOAEL (developmental toxicity) = 400 mg/kg bw/day (male/female)	
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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

Amorphous Silica (7631-86-9)

Routes of Exposure	Method	Species	Dose	Evaluation
Oral	OECD 415	rat	NOAEL = 497 mg/kg bw/day	negative

cobalt octoate (136-52-7)

Routes of Exposure	Method	Species	Dose	Evaluation
Oral	Read-across (Analogy) Cas N°: 7440-48-4 OECD 422	rat	NO(A)EL (P&F) 28d = 30 mg/kg bw/day	positive

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	negative

			toxicity) 6-15d >= 2.56 mg/L air	
Inhalation	OECD 414	rabbit	NOAEC (maternal toxicity + developmental toxicity) 6-18d = 2.56 mg/L air	negative

Titanium dioxide (13463-67-7)

Routes of Exposure	Method	Species	Dose	Evaluation
Oral	OECD 414	rat	NOAEL (maternal & developmental toxicity) 20d = 1000 mg/kg bw/day	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

Amorphous Silica (7631-86-9)				
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

(2-methoxymethylethoxy)propanol (34590-94-8)				
Routes of Exposure	Method	Species	Dose	Evaluation
Inhalation	EPA OTS 798.4350	rat	NOAEL (maternal tox/teretogenicity) 6-15d = 300 ppm	negative

Specific target organ toxicity - single exposure

May cause irritation of respiratory tract

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	

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			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	

Talc (14807-96-6)				
Routes of Exposure	Method	Species	Dose	Remarks
Inhalation	similar to OECD 412	rat	NOAEC (20d) = 2-6-18 mg/m ³	
Oral	similar to OECD 452	rat	NOAEL (101d) = 100 mg/kg bw/day	
Inhalation	similar to OECD 452	rat	NOAEC = 10.8 mg/m ³ air	

Titanium dioxide (13463-67-7)				
Routes of Exposure	Method	Species	Dose	Remarks
Oral	OECD 407	rat	NOEL (29d) = 24000 mg/kg bw/day	
Oral	OECD 408	rat	NOAEL (92-93d) > 1000 mg/kg/day	

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/m ³ air NOEC < 1.3 mg/m ³ air 90d	
Dermal	No information available	rabbit	NOAEL >= 10000 mg/kg bw/day	

Amorphous Silica (7631-86-9)

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/m ³ air NOEC < 1.3 mg/m ³ air 90d	
Dermal	No information available	rabbit	NOAEL >= 10000 mg/kg bw/day	

(2-methoxymethylethoxy)propanol (34590-94-8)

Routes of Exposure	Method	Species	Dose	Remarks
Oral	KANPOGYO No.700, YAKUHATSU No. 1039.61 and KIKYKU No. 1014	rat	NOEL/NOAEL (4 weeks) = 200/1000 mg/kg	

Inhalation	similar to OECD 413	rat	NOAEL (13 weeks) = 200 ppm	
Dermal	similar to OECD 411	rabbit	NOAEL (90d) = 2850 mg/kg bw/day	

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

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
Talc 14807-96-6	EC50 (96h) = 7202.700 mg/L (Green Algae) NOEC (30d) = 918.089 mg/L (Green Algae) QSAR	LC50 (48h) = 36812.359 mg/L (Daphnid species) QSAR	LC50 (96h) = 89581.016 mg/L (Fishes species) QSAR	
Titanium dioxide 13463-67-7	EC50 (72h) > 100 mg/L (Pseudokirchneriella subcapitata) NOEC (72h) >= 100 mg/L (Pseudokirchneriella subcapitata) OECD 201	EC50 (48h) > 100 mg/L (Daphnia magna) OECD 202	LC50 (96h) > 100 mg/L (Carassius auratus) NOEC (96h) >= 100 mg/L (Carassius auratus) OECD 203	EC50 (3h) > 1000 mg/L NOEC (3h) >= 1000 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	
Amorphous Silica 7631-86-9		EL50 (24h) >= 1000 mg/L (Daphnia magna) OECD 202	LC50 (96h) > 10000 mg/L (Brachydanio rerio) OECD 203	
(2-methoxymethylethoxy)propanol 34590-94-8	EC50 (72h) > 969 mg/L (Pseudokirchnerella subcapitata) OECD 201	LC50 (48h) = 1919 mg/L (Daphnia magna) Similar to OECD 202	LC50 (96h) > 1000 mg/L (Poecilia reticulata) OECD 203	EC10 (18h) = 4168 mg/L (Pseudomonas putida) No guideline followed

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
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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
(2- methoxymethylethox y)pr opanol 34590-94-8		NOEC (22d) >= 0.5 mg/L (Daphnia magna) Similar to 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
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	

(2-methoxymethylethoxy)propanol (34590-94-8)				
Chronic toxicity	Method	Species	Values	Remarks
plants	OECD 227	Grossypium hirsutum	NOEC (21d) = 250 g/L	

12.2. Persistence and degradability

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
(2-methoxymethylethoxy)propanol 34590-94-8	96 % (28d) DOC removal, 75 % (10d) OECD 301F	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

Chemical Name	log Pow
Styrene 100-42-5	3
Talc 14807-96-6	-9.4
Methyl methacrylate 80-62-6	1.38
(2-methoxymethylethoxy)propanol 34590-94-8	0.0043

12.4. Mobility in soil

Chemical Name	LogKoc	Koc
Styrene 100-42-5	2.55	352
Talc 14807-96-6	1.5027	31.82
Methyl methacrylate 80-62-6	0.94 - 1.86	-

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).
Talc 14807-96-6	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).
Titanium dioxide 13463-67-7	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).
Amorphous Silica 7631-86-9	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).
(2-methoxymethylethoxy)propanol 34590-94-8	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.

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.

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 UN1866, RESIN SOLUTION, 3, PG III, (D/E)
IMDG/IMO	Resin solution UN1866, RESIN SOLUTION, 3, PG III, (23°C c.c.)
ICAO/IATA	UN1866, RESIN SOLUTION, 3, PG III
AND	Resin solution UN1866, RESIN SOLUTION, 3, PG III

14.3. Transport hazard class(es)

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

14.4. Packing group

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

14.5. Environmental hazards

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

14.6. Special precautions for user

ADR/RID

Classification Code	F1
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
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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

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.

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
H412 - Harmful to aquatic life with long lasting effects

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

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