



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

SDS n° : FP11268

POLYCOR ISO BR

Page 1 / 11

Former date 22-Nov-2012

Revision Date 26-Nov-2012

Version: 2.01

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifier

Product name	POLYCOR ISO BR
Chemical Name	Gel Coat polyester for composites.
Trade name	POLYCOR ISO BR;POLYCOR ISO BR LV2;POLYCOR ISO BR LV;POLYCOR ISO BR HV;POLYCOR ISO BR F C;POLYCOR ISO BR IHB;POLYCOR TOPCOAT ISO BR F;POLYCOR TOPCOAT ISO BR LV ;POLYCOR ISO BR LV AD;POLYCOR ISO BR LV FC;POLYCOR TOPCOAT ISO BR LV IHB ;POLYCOR TOPCOAT ISO BR IHB ;POLYCOR ISO BR LV SC F;POLYCOR ISO BR LV SC FC;POLYCOR ISO BR FIN;POLYCOR ISO BR 0200;POLYCOR ISO BRUSH;POLYCOR ISO BRUSH CLEAR;POLYCOR ISO BR SBV;POLYCOR ISO BR BV 0200;POLYCOR ISO BR HV 0200;POLYCOR ISO BR SR;POLYCOR ISO BR V;POLYCOR ISO BR AD;POLYCOR ISO BR F;POLYCOR ISO BR FIN 0200;POLYCOR ISO BRUSH TOP COAT;POLYCOR ISO BR F 0200;POLYCOR ISO XP BRUSH TOP COAT;POLYCOR ISO BRUSH TOP COAT CLEAR;POLYCOR ISO 16 BR F;POLYCOR ISO BR BV FIN;POLYCOR ISO BR BV AD;POLYCOR ISO BR BV SR;POLYCOR ISO BR HV F;POLYCOR ISO BRUSH LOW VISC;POLYCOR ISO BR BV IHB;POLYCOR ISO BR BV IHB F;POLYCOR ISO 16 BR SC F;POLYCOR ISO 16 BR SC F C;POLYCOR ISO BRUSH TOP COAT LOW VISC;POLYCOR BR BV SR;POLYCOR ISO 16 BR;POLYCOR ISO BR FIN CR;POLYCOR ISO BR NA;POLYCOR ISO BR NA 0200;POLYCOR ISO BR NA F;POLYCOR ISO BR NA FIN 0200;POLYCOR ISO BR NA HV;POLYCOR ISO BRUSH HIGH VISC;POLYCOR ISO BRUSH HIGH VISC CLEAR;POLYCOR ISO BRUSH LOW VISC CLEAR;POLYCOR ISO BR C;POLYCOR ISO BR E;POLYCOR ISO BR BV;POLYCOR ISO 16 BR C;POLYCOR ISO 16 BR F SC;POLYCOR ISO 16 BR F V;POLYCOR ISO 16 BR RA;POLYCOR ISO 16 BR RA AD;POLYCOR ISO 16 BR RD;POLYCOR ISO 16 BR RD F 7204;POLYCOR ISO 16 BR SC F C;POLYCOR ISO 16 BR V;POLYCOR ISO BRUSH CLEAR;POLYCOR ISO BRUSH LOW VISC IHB TIDA WHITE;POLYCOR ISO BRUSH TOP COAT CLEAR;POLYCOR ISO FILLER;POLYCOR ISO FLEX BR;POLYCOR ISO RET;POLYCOR ISO RET SR;POLYCOR MOLDE BR;POLYCOR POUR MOULE BR 0200;POLYCOR QCC BR;POLYCOR QCC BR 0200;POLYCOR QCC BR BV;POLYCOR QCC BR FIN;POLYCOR QCC BR FIN 0200;POLYCOR QCC BRUSH;POLYCOR QCC BRUSH LOW VISC;POLYCOR TOOLING BRUSH;POLYCOR TOOLING BRUSH CLEAR
Pure substance/mixture	Mixture

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

Sector of use	To form a protective and decorative layer for GRP composites, Contact us before using for food contact application.
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Details of the supplier of the safety data sheet

Supplier	CCP Composites UK Ltd LAPORTE ROAD STALLINGBOROUGH, NORTH EAST LINCS. DN41 8DR UNITED KINGDOM Tel: +44 (0) 1469 572464 Fax: +44 (0) 1469 572988
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For further information, please contact

E-mail address	Rccp.SDSmanagement@ccpcomposites.com
Internet Address	http://www.ccpcomposites.com

Former date 22-Nov-2012

Revision Date 26-Nov-2012

Version: 2.01

Emergency telephone number

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

2. HAZARDS IDENTIFICATION

The mixture is classified as dangerous in accordance with Directive 1999/45/EC.

Classification of the substance or mixture

Symbol(s) Xn - Harmful

Classification R10 - Xn;R48/20 - Xn;R20 - Xi;R36/37/38

Label elements

contains Styrene

Symbol(s) Xn - Harmful

**R-phrases**

R10 - Flammable

R48/20 - Harmful: danger of serious damage to health by prolonged exposure through inhalation

R20 - Harmful by inhalation

R36/37/38 - Irritating to eyes, respiratory system and skin

S-phrases

S16 - Keep away from sources of ignition - No smoking

S33 - Take precautionary measures against static discharges

S 7/9 - Keep container tightly closed and in a well-ventilated place.

Special labelling of certain mixtures

contains cobalt octoate. May produce an allergic reaction.

Other hazards

Environmental properties Should not be released into the environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS**Hazardous components**

Chemical Name	EC-No	REACH Registration Number	CAS-No	Weight percent	Classification (67/548)	GHS Classification

Former date 22-Nov-2012

Revision Date 26-Nov-2012

Version: 2.01

Styrene	202-851-5	01-2119457861-3 2	100-42-5	<= 37	R10 Xn; R20 Xn; R48/20 Xn; R65 Xi; R36/37/38	Flam. Liq. 3 (H226) Eye Irrit. 2 (H319) Acute Tox. 4 (H332) Skin Irrit. 2 (H315) STOT SE 3 (H335) STOT RE 1 (H372) Asp. Tox. 1 (H304)
Titanium dioxide	236-675-5	no data available	13463-67-7	~ 17	-	-
Talc	238-877-9 456-230-0	no data available	14807-96-6	~ 8	-	-
Barium sulfate	231-784-4 444-260-7	no data available	7727-43-7	~ 4	-	-
Stoddard solvent	232-489-3	no data available	8052-41-3	<= 0.5	R10 Xn;R65 N;R51/53 R66	Asp. Tox. 1 (H304) STOT SE 3 (H336) Aquatic Chronic 2 (H411)
Naphtha (petroleum), hydrosulfurized heavy	265-185-4	no data available	64742-82-1	<= 0.5	R10 Xn;R65 N;R51/53 R66 R67	Flam. Liq. 3 (H226) Asp. Tox. 1 (H304) STOT SE 3 (H336) Aquatic Chronic 2 (H411)
cobalt octoate	205-250-6	01-2119524678-2 9	136-52-7	< 0.1	R43 N; R50/53	Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)

For the full text of the R-phrases mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

Description of first aid measures

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 If symptoms persist, call a physician
Ingestion	Do NOT induce vomiting Rinse mouth If symptoms persist, call a physician
Protection of first-aiders	Use personal protective equipment

Most important symptoms/effects, acute and delayed

Eye Contact	Irritating to eyes
Skin contact	Irritating to skin

Former date 22-Nov-2012

Revision Date 26-Nov-2012

Version: 2.01

Inhalation Harmful by 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.

Indication of immediate medical attention and special treatment needed, if necessary

General advice If symptoms persist, call a physician
Show this safety data sheet to the doctor in attendance
Do not breathe dust/fume/gas/mist/vapours/spray

5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media Cool containers / tanks with water spray, Dry chemical, Foam, Carbon dioxide (CO₂)

Extinguishing Media Which Must not be Used for Safety Reasons Do not use a solid water stream as it may scatter and spread fire.

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)

Precautions for fire-fighters

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

Personal precautions, protective equipment and emergency procedures

Personal precautions Remove all sources of ignition
Heat, flames and sparks
Take precautionary measures against static charges
Ensure adequate ventilation
Use personal protective equipment

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

Methods and materials for containment and cleaning up

Former date 22-Nov-2012

Revision Date 26-Nov-2012

Version: 2.01

Methods for cleaning up

Contain spillage, and then collect with non-combustable 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

Reference to other sections

See Section 12 for additional Ecological Information

7. HANDLING AND STORAGEPrecautions 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
Do not eat, drink or smoke when using this product
Wear personal protective equipment

Prevention of fire and explosion

Keep away from open flames, hot surfaces and sources of ignition Do not use compressed air for filling, discharging or handling Empty containers may contain flammable or explosive vapours

Hygiene measures

When using, do not eat, drink or smoke
Provide regular cleaning of equipment, work area and clothing

Conditions for safe storage, including any incompatibilities**Technical measures/Storage conditions**

Keep in a dry, cool and well-ventilated place
Keep away from heat and sources of ignition

Materials to avoid

Strong oxidizing agents, Catalyst

Packaging material

metallic GRP Tanks (Reinforced Glass Polyester)

Unsuitable materials for containers Aluminium copper Copper alloysSpecific use(s)**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Control parametersOccupational Exposure limits

Chemical Name	European Union	The United Kingdom	Ireland
Styrene 100-42-5	-	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
Titanium dioxide 13463-67-7		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
Talc 14807-96-6		STEL 3 mg/m ³ TWA 1 mg/m ³	TWA 10 mg/m ³ TWA 0.8 mg/m ³
Barium sulfate 7727-43-7	TWA 0.5 mg/m ³	STEL 30 mg/m ³ STEL 12 mg/m ³ STEL 1.5 mg/m ³ TWA 10 mg/m ³ TWA 4 mg/m ³ TWA 0.5 mg/m ³	TWA 2 mg/m ³ TWA 0.5 mg/m ³
Stoddard solvent 8052-41-3		We are not aware of any national exposure limit.	TWA 100 ppm TWA 573 mg/m ³

Former date 22-Nov-2012

Revision Date 26-Nov-2012

Version: 2.01

cobalt octoate 136-52-7		STEL 0.3 mg/m ³ TWA 0.1 mg/m ³ Sen+	TWA 0.1 mg/m ³ Sensitizer
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Legend:

+	Sensitisers
*	Skin designation
**	Hazard Designation
C:	Carcinogen
M:	Mutagen
R:	Toxic to reproduction

Biological standards

Chemical Name	European Union	The United Kingdom	Ireland
Styrene 100-42-5	-	We are not aware of any national exposure limit.	We are not aware of any national exposure limit.

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

In case of insufficient ventilation wear suitable respiratory equipment. Breathing apparatus with filter. Type A. Respirator must be worn if exposed to dust. Effective dust mask. Type A/P2.

Eye protection

Safety glasses with side-shields Do not wear contact lenses

Skin and body protection

Antistatic boots. Wear fire/flame resistant/retardant clothing.

Hand protection

Impervious gloves Glove material : Neoprene Nitriles Viton (R) 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 PROPERTIESInformation on basic physical and chemical properties

<u>Property</u>	<u>Values</u>	<u>Remark</u>
Appearance	Variable (This Data Sheet includes all the colours)	
Physical state	Liquid	
Particle size		no data available
Odour	Styrene	

Former date 22-Nov-2012

Revision Date 26-Nov-2012

Version: 2.01

Odour Threshold		no data available
pH		no data available
pH (as aqueous solution)		no data available
Melting point/range		no data available
Freezing point		no data available
Boiling point		no data available
Flash point	31 °C	
Evaporation rate		no data available
Flammability Limits in Air		
upper	-	
lower	-	
Vapour pressure	6.52 mbar	20°C
Vapour density		no data available
Density	1.1 - 1.4 g/cm3	20°C
Water solubility	Insoluble in water	
Partition coefficient: n-octanol/water		no data available
Autoignition temperature	490 °C	
Decomposition temperature		no data available
Viscosity	17000 - 30000 mPas	20°C
Explosive properties		
Oxidizing properties		

Other information

<u>Property</u>	<u>Values</u>	<u>Remark</u>
Solubility in other solvents	Soluble in most organic solvents	

10. STABILITY AND REACTIVITY

Reactivity**Reactivity** No information availableChemical stability**Stability** Stable under recommended storage conditions.Possibility of hazardous reactions**Hazardous polymerisation** Polymerisation can occur.Conditions to avoid**Conditions to avoid** Heat, flames and sparks
Exposure to light
Take precautionary measures against static chargesIncompatible materials**Materials to avoid** Strong oxidizing agents, CatalystHazardous decomposition products**Hazardous decomposition products** Incomplete combustion and thermolysis produces potentially toxic gases such as carbon monoxide and carbon dioxide

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity Product Information

Former date 22-Nov-2012

Revision Date 26-Nov-2012

Version: 2.01

Inhalation	Harmful by 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.
Local effects	
Inhalation	Harmful by inhalation Harmful: danger of serious damage to health by prolonged exposure through inhalation Irritating to respiratory system
Skin contact	Irritating to skin
Eye Contact	Irritating to eyes
Sensitisation	
Inhalation	None
Skin contact	May produce an allergic reaction.
Chronic toxicity	
Target Organ Effects	Central nervous system (CNS). Reproductive System. Central Vascular System (CVS). Respiratory system. Eyes. Liver. Skin.
Specific effects	
Carcinogenicity	Animal testing did not show any carcinogenic effects.
Mutagenic Effects	Animal testing did not show any mutagenic effects
Reproductive toxicity	Animal testing did not show any effects on fertility
Developmental Toxicity	Animal studies did not show statistically significant developmental toxicological effects.

Acute toxicity - Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Styrene	> 2000 mg/kg (Rat)		11.8 mg/L (Rat) 4 h
Titanium dioxide	10000 mg/kg (Rat)		
cobalt octoate	3129 mg/kg/bw (Rat)	> 2000 mg/kg/bw (Rat)	

Chemical Name	EU - Endocrine Disrupters Candidate List	EU - Endocrine Disruptors - Evaluated Substances
Styrene	Group I Chemical	High Exposure Concern

Chemical Name	European Union
Stoddard solvent 8052-41-3	Muta. 1B

12. ECOLOGICAL INFORMATION

Toxicity

Do not flush into surface water or sanitary sewer system.

Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates.	Toxicity to fish	Toxicity to microorganisms
Styrene 100-42-5	LC50 Algae 72h 4.9 mg/L	EC50 Daphnia magna 48h 4.7 mg/L	LC50 Fish 96h 4.02 - 10 mg/L	
Talc 14807-96-6			LC50 Brachydanio rerio 96h 100g/L	

Persistence and degradability

No information available.

Bioaccumulative potential

**Partition coefficient:
n-octanol/water**

Former date 22-Nov-2012

Revision Date 26-Nov-2012

Version: 2.01

Chemical Name	log Pow
Styrene - 100-42-5	3

Mobility in soil

No information available.

Results of PBT and vPvB assessment

No information available.

Other adverse effects

None known.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from Residues/Unused Products Dispose of in accordance with the European Directives on waste and hazardous waste.

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

ADR/RID

UN-No UN1866
Hazard class 3
Proper shipping name Resin solution
Packing group III
Classification Code F1
Tunnel restriction code (D/E)
ADR Hazard Id (Kemmler Number) 30
Description UN1866, RESIN SOLUTION, 3, PG III, (D/E)
Limited quantity LQ7

IMDG/IMO

UN-No UN1866
Hazard class 3
Proper shipping name Resin solution
Packing group III
Marine pollutant NP
EmS F-E, S-E
Description UN1866, RESIN SOLUTION, 3, PG III, (31°C c.c.)
Limited quantity 5 L

ICAO/IATA

UN-No UN1866
Hazard class 3
Packing group III

Former date 22-Nov-2012

Revision Date 26-Nov-2012

Version: 2.01

ERG Code 3L
 Description UN1866, RESIN SOLUTION, 3, PG III
 Limited quantity 10 L

ADN

UN-No UN1866
 Hazard class 3
 Packing group III
 Classification Code F1
 Special Provisions 640E
 Description UN1866, RESIN SOLUTION, 3, PG III
 Limited quantity LQ7
 Ventilation VE01

15. REGULATORY INFORMATION

The mixture is classified as dangerous in accordance with Directive 1999/45/EC.

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

European Union

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

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).

Chemical Safety Assessment

No information available

16. OTHER INFORMATION

Full text of R-phrases referred to under sections 2 and 3

R10 - Flammable
 R20 - Harmful by inhalation
 R43 - May cause sensitisation by skin contact
 R65 - Harmful: may cause lung damage if swallowed
 R66 - Repeated exposure may cause skin dryness or cracking
 R67 - Vapours may cause drowsiness and dizziness
 R36/37/38 - Irritating to eyes, respiratory system and skin
 R48/20 - Harmful: danger of serious damage to health by prolonged exposure through inhalation
 R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
 R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Former date 22-Nov-2012**Revision Date** 26-Nov-2012**Version:** 2.01

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

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

H336 - May cause drowsiness or dizziness

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

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

H411 - Toxic to aquatic life with long lasting effects

Former date 22-Nov-2012

Revision Date 26-Nov-2012

Revision Note not applicable

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