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

Product identifier

<table>
<thead>
<tr>
<th>Product name</th>
<th>POLYCOR ISO BR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical Name</td>
<td>Pure substance/mixture</td>
</tr>
<tr>
<td>Trade name</td>
<td>Mixture</td>
</tr>
</tbody>
</table>

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.

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

For further information, please contact
E-mail address      Rccp.SDSmanagement@ccpcomposites.com
Internet Address     http://www.ccpcomposites.com
Emergency telephone number

<table>
<thead>
<tr>
<th>Region</th>
<th>Phone Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Europe, America, Middle East, Africa (European language countries)</td>
<td>+44 (0) 1235 239 670</td>
</tr>
<tr>
<td>Middle East/Africa (Arabic speaking countries)</td>
<td>+44 (0) 1235 239 671</td>
</tr>
<tr>
<td>Asia Pacific</td>
<td>+65 3158 1074</td>
</tr>
</tbody>
</table>

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-phrase(s)
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-phrase(s)
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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>EC-No</th>
<th>REACH Registration Number</th>
<th>CAS-No</th>
<th>Weight percent</th>
<th>Classification (67/548)</th>
<th>GHS Classification</th>
</tr>
</thead>
</table>

CCP Composites 16-32, rue Henri Regnault - La Défense 6 - F-92062 PARIS La Défense Cedex - France Version: EUUK
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
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
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 STORAGE

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
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 alloys

Specific use(s)

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Occupational Exposure limits

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>European Union</th>
<th>The United Kingdom</th>
<th>Ireland</th>
</tr>
</thead>
<tbody>
<tr>
<td>Styrene 100-42-5</td>
<td>-</td>
<td>STEL 250 ppm STEL 1080 mg/m³ TWA 100 ppm TWA 430 mg/m³</td>
<td>TWA 20 ppm TWA 85 mg/m³ STEL 40 ppm STEL 170 mg/m³</td>
</tr>
<tr>
<td>Titanium dioxide 13463-67-7</td>
<td>-</td>
<td>STEL 30 mg/m³ STEL 12 mg/m³ TWA 10 mg/m³ TWA 4 mg/m³</td>
<td>TWA 10 mg/m³ TWA 4 mg/m³</td>
</tr>
<tr>
<td>Talc 14807-96-6</td>
<td></td>
<td>STEL 3 mg/m³ TWA 1 mg/m³</td>
<td>TWA 10 mg/m³ TWA 0.8 mg/m³</td>
</tr>
<tr>
<td>Barium sulfate 7727-43-7</td>
<td>TWA 0.5 mg/m³</td>
<td>STEL 30 mg/m³ STEL 12 mg/m³ STEL 1.5 mg/m³ TWA 10 mg/m³ TWA 4 mg/m³ TWA 0.5 mg/m³</td>
<td>TWA 2 mg/m³ TWA 0.5 mg/m³</td>
</tr>
<tr>
<td>Stoddard solvent 8052-41-3</td>
<td></td>
<td>We are not aware of any national exposure limit.</td>
<td>TWA 100 ppm TWA 573 mg/m³</td>
</tr>
</tbody>
</table>
**Biological standards**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>European Union</th>
<th>The United Kingdom</th>
<th>Ireland</th>
</tr>
</thead>
<tbody>
<tr>
<td>Styrene</td>
<td>-</td>
<td>We are not aware of any national exposure limit.</td>
<td>We are not aware of any national exposure limit.</td>
</tr>
<tr>
<td>100-42-5</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**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**

Do not allow material to contaminate ground water system.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Information on basic physical and chemical properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Variable (This Data Sheet includes all the colours)</td>
<td></td>
</tr>
<tr>
<td>Physical state</td>
<td>Liquid</td>
<td></td>
</tr>
<tr>
<td>Particle size</td>
<td></td>
<td>no data available</td>
</tr>
<tr>
<td>Odour</td>
<td>Styrene</td>
<td></td>
</tr>
</tbody>
</table>
10. STABILITY AND REACTIVITY

Reactivity

No information available

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

Polymerisation can occur.

Conditions to avoid

Heat, flames and sparks
Exposure to light
Take precautionary measures against static charges

Incompatible materials

Strong oxidizing agents, Catalyst

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
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  

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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>LD50 Oral</th>
<th>LD50 Dermal</th>
<th>LC50 Inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Styrene</td>
<td>&gt; 2000 mg/kg (Rat)</td>
<td></td>
<td>11.8 mg/L (Rat) 4 h</td>
</tr>
<tr>
<td>Titanium dioxide</td>
<td>10000 mg/kg (Rat)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>cobalt octoate</td>
<td>3129 mg/kg/bw (Rat)</td>
<td>&gt; 2000 mg/kg/bw (Rat)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>EU - Endocrine Disrupters Candidate List</th>
<th>EU - Endocrine Disruptors - Evaluated Substances</th>
</tr>
</thead>
<tbody>
<tr>
<td>Styrene</td>
<td>Group I Chemical</td>
<td>High Exposure Concern</td>
</tr>
</tbody>
</table>

12. ECOLOGICAL INFORMATION

Toxicity  Do not flush into surface water or sanitary sewer system.

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

Persistence and degradability  No information available.

Bioaccumulative potential  Partition coefficient:  
n-octanol/water
Mobility in soil
No information available.

Results of PBT and vPvB assessment
No information available.

Other adverse effects
None known.

### 13. DISPOSAL CONSIDERATIONS

<table>
<thead>
<tr>
<th>Waste treatment methods</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Waste from Residues/Unused Products</td>
<td>Dispose of in accordance with the European Directives on waste and hazardous waste.</td>
</tr>
<tr>
<td>Contaminated packaging</td>
<td>Empty containers should be taken to an approved waste handling site for recycling or disposal.</td>
</tr>
<tr>
<td>Other information</td>
<td>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.</td>
</tr>
</tbody>
</table>

### 14. TRANSPORT INFORMATION

**ADR/RID**

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

**IMDG/IMO**

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

**ICAO/IATA**

<table>
<thead>
<tr>
<th>UN-No</th>
<th>UN1866</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hazard class</td>
<td>3</td>
</tr>
<tr>
<td>Packing group</td>
<td>III</td>
</tr>
</tbody>
</table>
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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>96/82/EC (SEVESO) - §9</th>
<th>96/82/EC (SEVESO) - §6, §7</th>
</tr>
</thead>
<tbody>
<tr>
<td>Styrene - 100-42-5</td>
<td>50000</td>
<td>5000 tonne 50000 tonne</td>
</tr>
</tbody>
</table>

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
- R50/33 - 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
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

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