#### Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 453/2010 - United Kingdom (UK)

## SAFETY DATA SHEET



### **ESI RESIN GP UK F OTL**

1.1 Product identifier	
Product name	: ESI RESIN GP UK F OTL
Internal code	: 021390WW52315
Chemical formula	: Not applicable.

1.2 Relevant identified uses of the substance or mixture and uses advised	against
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Decommonded use		Desir system used in the production of costings
Recommended use	•	Resin system used in the production of coatings.

#### 1.3 Details of the supplier of the safety data sheet

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Supplier	<ul> <li>DSM Composite Resins AG Stettemerstrasse 28 CH-8207 Schaffhausen Switzerland</li> </ul>	Tel: +41 52 6441212 www.dsm.com/drs
e-mail address of person responsible for this SDS	: DSMRESINS.SDS@dsm.com	(Communication in English only please)

#### 1.4 Emergency telephone number

Emergency telephone	: Netherlands: +31 38 4569289
number	

### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

Product definition : Mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Flam. Liq. 3, H226 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 1, H372

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

#### Classification according to Directive 1999/45/EC [DPD]

The product is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification	: R10
	Xn; R20
	Xi; R36/38

See Section 16 for the full text of the R-phrases declared above.

### 2.2 Label elements

Hazard pictograms



Signal word	: Danger
Hazard statements	<ul> <li>H226 - Flammable liquid and vapour.</li> <li>H332 - Harmful if inhaled.</li> <li>H319 - Causes serious eye irritation.</li> <li>H315 - Causes skin irritation.</li> <li>H335 - May cause respiratory irritation.</li> <li>H372 - Causes damage to organs through prolonged or repeated exposure if inhaled. (ears)</li> </ul>
Supplemental label elements	: Contains cobalt bis(2-ethylhexanoate). May produce an allergic reaction.
Precautionary statements	

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Prevention	<ul> <li>P280 - Wear protective gloves: 4 - 8 hours (breakthrough time): Viton® (0.70 mm); &lt; 1 hour (breakthrough time): Nitril rubber (0.4 mm). Wear eye or face protection.</li> <li>P210 - Keep away from heat, sparks, open flames and hot surfaces No smoking.</li> <li>P241 - Use explosion-proof electrical, ventilating, lighting and all material-handling equipment.</li> <li>P242 - Use only non-sparking tools.</li> <li>P243 - Take precautionary measures against static discharge.</li> <li>P233 - Keep container tightly closed.</li> <li>P271 - Use only outdoors or in a well-ventilated area.</li> <li>P260 - Do not breathe vapour.</li> <li>P270 - Do not eat, drink or smoke when using this product.</li> <li>P264 - Wash hands thoroughly after handling.</li> </ul>
Response	<ul> <li>P314 - Get medical attention if you feel unwell.</li> <li>P304 + P340 + P312 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.</li> <li>P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing.</li> <li>Rinse skin with water or shower.</li> <li>P302 + P352 + P362-2 - IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing.</li> <li>P332 + P313 - If skin irritation occurs: Get medical attention.</li> <li>P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P337 + P313 - If eye irritation persists: Get medical attention.</li> </ul>
Storage	: P235 - Keep cool.
Disposal	: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	: styrene
2.3 Other hazards	
Other hazards which do not result in classification	: Not available.

## **SECTION 3: Composition/information on ingredients**

Substance/mixture

	Mixture	
•	IVIIALUIE	

Product/ingredient name	Identifiers	%	Classification		
			67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	
styrene	REACH #: 01-2119457861-32 EC: 202-851-5 CAS: 100-42-5 Index: 601-026-00-0	>=35, <50	R10 Xn; R20 Xi; R36/38	Flam. Liq. 3, H226 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 1, H372 Asp. Tox. 1, H304	
cobalt bis(2-ethylhexanoate)	REACH #: 01-2119524678-29 EC: 205-250-6 CAS: 136-52-7	<0.25	Repr. Cat. 3; R62 Xi; R36 R43 N; R50/53	Eye Irrit. 2, H319 Skin Sens. 1, H317 Repr. 2, H361f Aquatic Acute 1, H400 Aquatic Chronic 1, H410	
			See Section 16 for the full text of the R- phrases declared above.	See Section 16 for the full text of the H statements declared above.	

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.



## **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

Eye contact	:	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Inhalation	:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	:	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	:	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention following exposure or if feeling unwell. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Protection of first-aiders	:	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

#### 4.2 Most important symptoms and effects, both acute and delayed

4.2 Most important symptom	s and enects, both deate and delayed
Potential acute health effects	
Eye contact	: Causes serious eye irritation.
Inhalation	: Harmful if inhaled. May cause respiratory irritation.
Skin contact	: Causes skin irritation.
Ingestion	: Irritating to mouth, throat and stomach.
Over-exposure signs/sympto	oms
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.
4.3 Indication of any immedia	ate medical attention and special treatment needed
Notes to physician	: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.

# **SECTION 5: Firefighting measures**

5.1 Extinguishing media Small fire	
Suitable	: Use dry chemical powder, CO <sub>2</sub> or alcohol-resistant foam. Cover with vermiculite or other non-combustible material.
Not suitable	: Do not use water jet.
Large fire	
Suitable	: Alcohol-resistant foam.
Not suitable	: Do not use water jet.

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5.2 Special hazards arising f	om the substance or mixture
Hazards from the substance or mixture	: Flammable liquid and vapour. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapour/gas is heavier than air and will spread along the ground. Vapours may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.
Hazardous combustion products	: In case of fire, may produce hazardous decomposition products such as carbon monoxide, carbon dioxide, (dense) black smoke, aldehydes, organic acids.
5.3 Advice for firefighters	
Special protective actions for fire-fighters	: Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

# **SECTION 6: Accidental release measures**

6.1 Personal precautions	s, protective equipment and emergency procedures
For non-emergency personnel	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
6.3 Methods and materia	Is for containment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water- soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.
6.4 Reference to other sections	: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

### **SECTION 7: Handling and storage**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 7.1 Precautions for safe handling

Protective measures	Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not breathe vapour or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty container or an approved can be available.
	containers retain product residue and can be hazardous. Do not reuse container.

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Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
7.2 Conditions for safe storage, including any incompatibilities	<ul> <li>Store between the following temperatures: 15 to 30°C (59 to 86°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. Store in original container, protected from direct sunlight. Store between the following temperatures: 15 and 30 °C.</li> <li>Keep away from heat and direct sunlight.</li> </ul>
7.3 Specific end use(s)	
Recommendations	: Not available.
Industrial sector specific solutions	: Not available.
Remarks	: shake/mix before use

# **SECTION 8: Exposure controls/personal protection**

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker or exposure or environmental releases.

#### 8.1 Control parameters

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#### **Occupational exposure limits**

styrene cobalt bis(2-ethylhexanoate)	<ul> <li>EH40/2005 WELs (United Kingdom (UK), 12/2011).</li> <li>STEL: 250 ppm 15 minutes.</li> <li>TWA: 100 ppm 8 hours.</li> <li>TWA: 430 mg/m<sup>3</sup> 8 hours.</li> <li>STEL: 1080 mg/m<sup>3</sup> 15 minutes.</li> <li>EH40/2005 WELs (United Kingdom (UK), 12/2011). Skin sensitiser</li> <li>TWA: 0.1 mg/m<sup>3</sup>, (as Co) 8 hours.</li> </ul>	
Recommended monitoring procedures	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.	

#### DNELs/DMELs

Product/ingredient name	Туре	Exposure	Value	Population	Effects
styrene	DNEL DNEL DNEL	Short term Inhalation Short term Inhalation Long term Inhalation	289 mg/m <sup>3</sup> 306 mg/m <sup>3</sup> 85 mg/m <sup>3</sup>	Workers Workers Workers	Systemic Local Systemic
	DNEL	Short term Inhalation	174.25 mg/ m <sup>3</sup>	Consumers	Systemic
	DNEL	Short term Inhalation	182.75 mg/ m <sup>3</sup>	Consumers	Local
	DNEL	Long term Inhalation	10.2 mg/m <sup>3</sup>	Consumers	Systemic

#### **PNECs**

Product/ingredient name	Compartment Detail	Value	Method Detail
styrene	Fresh water	0.028 mg/l	Assessment Factors
	Marine	0.0028 mg/l	Assessment Factors
	Fresh water sediment	0.614 mg/kg	-
		dwt	
	Marine water sediment	0.0614 mg/	-
		kg dwt	
	Sewage Treatment Plant	5 mg/l	Assessment Factors
	Soil	0.2 mg/kg	-
		00	

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	dwt	

Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust
Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Full-face mask
Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. 4 - 8 hours (breakthrough time): Viton® (0.70 mm) < 1 hour (breakthrough time): Nitril rubber (0.4 mm)
Chemical-resistant protective suit.
Self-contained breathing apparatus air fed respirator.
Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Replace damaged gloves.
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assessment of the actual exposure situation.

## **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

3.1 mormation on basic phys	sical and chemical properties
Physical state	: Liquid. [Hazy]
Colour	: Bluish-grey.
Odour	: typical
Odour threshold	: 0.15 to 25 ppm
рН	: Not available.
Melting point/freezing point	: Not available.
Initial boiling point and	: 145 °C
boiling range	
Softening range	: Not available.
Flash point	: 33 °C estimate
Evaporation rate	: 12.4 (compared with butyl acetate)
Flammability (solid, gas)	: Not available.
Burning time	: Not applicable.
Burning rate	: Not applicable.
Upper/lower flammability or	: Lower: 1.1%
explosive limits	Upper: 6.1%
Vapour pressure	: 0.67 kPa
Vapour density	: 3.6 (Air = 1)
Relative density	: 1.1 (Water = 1)
Density(g/cm³)	: 1.1 g/cm <sup>3</sup> (23°C)
Bulk density	: Not available.
Solubility	: Insoluble in the following materials: cold water and hot water.
Solubility in water	: Not available.
Partition coefficient: n-	: Not available.
octanol/water	
Auto-ignition temperature	: 490 °C
Decomposition temperature	: Not available.
Viscosity	: Dynamic (room temperature): 330 to 450 mPa·s (330 to 450 cP)
Explosive properties	: Not available.
Oxidising properties	: Not available.

9.2 Other information



# **SECTION 10: Stability and reactivity**

10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: The product is stable. Stable under recommended storage and handling conditions (see Section 7).
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.
10.5 Incompatible materials	: Reactive or incompatible with the following materials: oxidizing materials
10.6 Hazardous decomposition products	: No specific data.

# **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
<b>s</b> fyrene	LC50 Inhalation Vapour	Rat	12 g/m³	4 hours
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	5000 mg/kg	-
cobalt bis(2-ethylhexanoate)	LD50 Oral	Rat - Female	3129 mg/kg	-

Conclusion/Summary : Not available.

Acute toxicity estimates

Route	ATE value
Øral	27027 mg/kg
Dermal	81081.1 mg/kg
Inhalation (gases)	10858.1 ppm
Inhalation (vapours)	27.81 mg/l
Inhalation (dusts and mists)	3.619 mg/l

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
styrene	Respiratory - Irritant	Mammal - species unspecified	-	-	-
cobalt bis(2-ethylhexanoate)	Eyes - Irritant	Rabbit	-	-	-

Conclusion/Summary

Eyes	: Not available.
Skin	: Not available.
Respiratory	: Not available.
Sensitisation	
Conclusion/Summary	
Skin	: Not available.
Respiratory	: Not available.
Mutagenicity	
Conclusion/Summary	: Not available.
Carcinogenicity	
Conclusion/Summary	: Not available.
Reproductive toxicity	
Conclusion/Summary	: Not available.



#### Teratogenicity

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
styrene	Category 3	Not applicable.	Respiratory tract irritation
Specific target organ toxicity (repeated exposure)			
Product/ingredient name	Category	Route of exposure	Target organs
styrene	Category 1	Inhalation	ears

#### Aspiration hazard

Product/ingredient name				Result				
styrene					ASPIRATION HAZARD - Category 1			
Potential acute health effec	ts				1			
Eye contact	:	Causes serio	ous eye irritatio	on.				
Inhalation	:	Harmful if inh	armful if inhaled. May cause respiratory irritation.					
Skin contact	:	Causes skin	auses skin irritation.					
Ingestion	:	Irritating to m	Irritating to mouth, throat and stomach.					
Symptoms related to the ph	iys	ical, chemica	and toxicol	ogical charac	<u>teristics</u>			
Eye contact	:	Adverse sym pain or irritat watering redness		clude the follow	wing:			
Inhalation	:	Adverse sym respiratory tr coughing		clude the follow	wing:			
Skin contact	:	Adverse sym irritation redness	ptoms may in	clude the follow	wing:			
Ingestion	:	No specific d	No specific data.					
General	:	Causes dam	Causes damage to organs through prolonged or repeated exposure if inhaled.					
Carcinogenicity	:	No known sig	No known significant effects or critical hazards.					
Mutagenicity	:	No known sig	gnificant effect	ts or critical ha	zards.			
Teratogenicity	:	No known sig	gnificant effect	ts or critical ha	zards.			
Developmental effects	:	No known sig	gnificant effect	ts or critical ha	zards.			
Fertility effects	:	No known sig	gnificant effect	ts or critical ha	zards.			
Classification								
Product/ingredient name			ACGIH	IARC	EPA	NIOSH	NTP	OSHA
₽fyrene			A4	2B	-	-	Reasonably anticipated to be a human carcinogen.	-
Cobalt bis(2-ethylhexanoate)			-	2B	-	-	-	-
1,4-dihydroxybenzene			A3	3	-	-	-	-

### **SECTION 12: Ecological information**

Product/ingredient name	Result	Species	Exposure	Effects
styrene	Acute EC50 4.9 mg/l	Algae	72 hours	-
	Acute EC50 4.7 mg/l	Daphnia	48 hours	-
	Acute LC50 4.02 mg/l	Fish	96 hours	-
	Chronic NOEC 1.01 mg/l	Daphnia	21 days	-

#### 12.2 Persistence and degradability

Conclusion/Summary

: Not available.

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Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
styrene	-	-	Readily
cobalt bis(2-ethylhexanoate)	-	-	Not readily

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
styrene	3	13.49	low

12.4 Mobility in soil	
Soil/water partition coefficient (Koc)	: Not available.
Mobility	: Not available.

12.5 Results of PBT and	vPvB assessment
PBT	: Not applicable.
vPvB	: Not applicable.

**12.6 Other adverse effects** : No known significant effects or critical hazards.

### **SECTION 13: Disposal considerations**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

· · <b>,</b> · · · · · · · · · · · ·	
13.1 Waste treatment metho	ds
<u>Product</u> Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and
Hazardous waste	<ul><li>contact with soil, waterways, drains and sewers.</li><li>The classification of the product may meet the criteria for a hazardous waste.</li></ul>
Packaging	
Methods of disposal	The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Special precautions	: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

## **SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	IATA
14.1 UN number	UN1866	UN1866	UN1866	UN1866
14.2 UN proper shipping name	RESIN SOLUTION	RESIN SOLUTION	RESIN SOLUTION	Resin solution
14.3 Transport hazard class(es)	3	3	3	3
14.4 Packing group				

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14.5 Environmental hazards	No.	Yes.	No.	No.
Additional information	Hazard identification         number         30         Limited quantity         5 L         Special provisions         640E         Tunnel code         (D/E)         Remarks         This class 3 material can         be considered non         hazardous in packagings         up to 450 L.	Special provisions 640E	Emergency schedules (EmS) F-E, _S-E_ Special provisions 223, 955	Passenger and Cargo         Aircraft         Quantity limitation:         60 L         Packaging instructions:         355         Cargo Aircraft Only         Quantity limitation: 220 L         Packaging instructions:         366         Limited Quantities -         Packaging instructions:         366         Limited Quantities -         Packaging instructions:         Y344         Special provisions         A3

14.6 Special precautions for user

: **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

### **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

#### Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Not applicable.

#### Other EU regulations

Product/ingredient name	Carcinogenic effects	Mutagenic effects	Developmental effects	Fertility effects
cobalt bis(2-ethylhexanoate)	=	=	=	<u>Repr. 2, H361f</u>

National regulations

Product/ingredient name	List name	Name on list	Classification	Notes
	UK Occupational Exposure Limits EH40 - WEL	cobalt compounds	Carc.	-

15.2 Chemical Safety Assessment : No Chemical Safety Assessment has been carried out.



# **SECTION 16: Other information**

Classi Flam. Liq. 3, H226 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 1, H372 Full text of abbreviated H statements Full text of classifications [CLP/GHS] Full text of abbreviated R	H315Causes skin irritatH317May cause an alleH319Causes serious eH320Harmful if inhaledH335May cause respiratH361fSuspected of damH372Causes damage tH400Very toxic to aqua	allowed and enters airways. ion. ergic skin reaction. ye irritation. atory irritation. haging fertility. o organs through prolonged or repeated exposure if inhaled.
Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 1, H372 Full text of abbreviated H statements	<ul> <li>H304 May be fatal if swa H315 Causes skin irritat H317 May cause an alle H319 Causes serious en H332 Harmful if inhaled H335 May cause respira H361f Suspected of darn H372 Causes damage t H400 Very toxic to aqua H410 Very toxic to aqua H410 Very toxic to aqua</li> <li>Acute Tox. 4, H332 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Asp. Tox. 1, H304 Eye Irrit. 2, H319 Flam. Liq. 3, H226 Repr. 2, H361f Skin Irrit. 2, H315 Skin Sens. 1, H317</li> </ul>	Calculation method Calculation method Calculation method Calculation method Calculation method Calculation method and vapour. allowed and enters airways. ion. ergic skin reaction. ye irritation. aging fertility. o organs through prolonged or repeated exposure if inhaled. tic life. tic life with long lasting effects. ACUTE TOXICITY: INHALATION - Category 4 ACUTE TOXICITY: INHALATION - Category 1 LONG-TERM AQUATIC HAZARD - Category 1 ASPIRATION HAZARD - Category 1 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 3 TOXIC TO REPRODUCTION [Fertility] - Category 2 SKIN CORROSION/IRRITATION - Category 2
Statements Full text of classifications [CLP/GHS]	<ul> <li>H304 May be fatal if swa H315 Causes skin irritat H317 May cause an alle H319 Causes serious en H332 Harmful if inhaled H335 May cause respira H361f Suspected of darn H372 Causes damage t H400 Very toxic to aqua H410 Very toxic to aqua H410 Very toxic to aqua</li> <li>Acute Tox. 4, H332 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Asp. Tox. 1, H304 Eye Irrit. 2, H319 Flam. Liq. 3, H226 Repr. 2, H361f Skin Irrit. 2, H315 Skin Sens. 1, H317</li> </ul>	allowed and enters airways. ion. ergic skin reaction. ye irritation. taory irritation. aging fertility. o organs through prolonged or repeated exposure if inhaled. tic life. tic life with long lasting effects. ACUTE TOXICITY: INHALATION - Category 4 ACUTE TOXICITY: INHALATION - Category 1 LONG-TERM AQUATIC HAZARD - Category 1 ASPIRATION HAZARD - Category 1 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 3 TOXIC TO REPRODUCTION [Fertility] - Category 2 SKIN CORROSION/IRRITATION - Category 2
CLP/GHS]	Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Asp. Tox. 1, H304 Eye Irrit. 2, H319 Flam. Liq. 3, H226 Repr. 2, H361f Skin Irrit. 2, H315 Skin Sens. 1, H317	ACUTE AQUATIC HAZARD - Category 1 LONG-TERM AQUATIC HAZARD - Category 1 ASPIRATION HAZARD - Category 1 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 3 TOXIC TO REPRODUCTION [Fertility] - Category 2 SKIN CORROSION/IRRITATION - Category 2
Full text of abbreviated R	STOT SE 3, H335	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE): INHALATION [ears] - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) [Respiratory tract irritation] - Category 3
hrases	<ul> <li>R10- Flammable.</li> <li>R62- Possible risk of impaire</li> <li>R20- Harmful by inhalation.</li> <li>R36- Irritating to eyes.</li> <li>R36/38- Irritating to eyes and</li> <li>R43- May cause sensitisation</li> <li>R50/53- Very toxic to aquatic environment.</li> </ul>	d fertility. d skin.
ull text of classifications DSD/DPD]	: Repr. Cat. 3 - Toxic to reprov Xn - Harmful Xi - Irritant N - Dangerous for the enviro	
Iterations compared to the revious version	: Alterations compared to the p	revious version are marked with a little (blue) triangle.
Abbreviations and acronyms	: ATE = Acute Toxicity Estima CLP = Classification, Labellin DMEL = Derived Minimal Eff DNEL = Derived No Effect Lo EUH statement = CLP-speci PBT = Persistent, Bioaccum PNEC = Predicted No Effect RRN = REACH Registration vPvB = Very Persistent and V	ng and Packaging Regulation [Regulation (EC) No. 1272/2008] ect Level evel fic Hazard statement ulative and Toxic Concentration Number
Sources of key data		ation reports are available through the manufacturer.
nternal code	: 021390WW52315	
raining advice	: Handling of this substance or	preparation is restricted to skilled personnel only.
intended to aid the user in contr The information may not be or n applications. The user is responsible for ensu	rolling the handling risks; it is not may not altogether be applicable uring that appropriate precaution	our data available on the date of publication. The information is to be construed as a warranty or specification of the product quality. to combinations of the product with other substances or to particular s are taken and for satisfying themselves that the data are suitable unclarity we advise consulting the supplier or an expert.
listory Date of printing	: 14 November 2013.	

Date of issue/Date of revision: 14 November 2013

Safety Data Sheet

ESI RESIN GP UK F OTL



Date of issue Version : 14 November 2013 : 2