



SAFETY DATA SHEET

This Safety Data Sheet is provided in compliance with the EC Regulation 1907/2006-2015/830

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

- Product Name: ISOPOL Transparent UV Brush Gelcoat
- Product Part Number: MHGC
- UFI: RH00-W0TF-5000-CX9V

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

- Use of the substance/mixture: Suitable for use in general moulding, building, and marine applications.

1.3 Details of the supplier of the safety data sheet

- Name of Supplier: Colorplas UK Ltd
- Address of Supplier: Mossbridge Road,
Rochdale,
OL16 5PQ
- Telephone: +44 (0) 1706 351888
- Responsible Person: Kieran McCulloch
- Email: Info@colorplas.com

1.4 Emergency telephone number

- Emergency Telephone: UK NPIS = 0344 892 0111
Ireland NPIC = (01) 809 2566

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

- Flammable, category 3
- Irritant, category 2
- Eye damage, category 2
- Organ toxicity single exposure, category 3
- Organ toxicity repeated exposure, category 1
- Chronic aquatic toxicity, category 3

2.2 Label elements



GHS02



GHS08



GHS07

- Signal Word: Danger

2.2.1 Hazard statements

SECTION 2: Hazards identification (....)

H226 - Flammable liquid and vapour.
 H361 - Suspected of damaging fertility or the unborn child.
 H335 - May cause respiratory irritation.
 H372 - Causes damage to organs through prolonged or repeated exposure.
 H315 - Causes skin irritation.
 H319 - Causes serious eye irritation.
 EUH208 - Contains cobalt bis(2-ethylhexanoate). May produce an allergic reaction.
 H412 - Harmful to aquatic life with long lasting effects.

2.2.2 Precautionary statements

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P403+P235 - Store in a well-ventilated place. Keep cool.
 P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
 P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
 P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
 P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.
 P308+P313 - IF exposed or concerned: Get medical advice/attention.
 P281 - Use personal protective equipment as required.
 P370+P378 - In case of fire: use foam, carbon dioxide or dry agent to extinguish.
 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P201 - Obtain special instructions before use.
 P273 - Avoid release to the environment.
 P501 - Dispose of contents/container to an authorised waste collection point
 P312 - Call a POISON CENTRE or doctor if you feel unwell.
 P233 - Keep container tightly closed.
 P314 - Get medical advice/attention if you feel unwell.
 P264 - Wash hands thoroughly after handling.
 P337+P313 - If eye irritation persists: Get medical advice/attention.

2.3 Other hazards

- Contains: Styrene
 Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified

SECTION 3: Composition/information on ingredients**3.1 Substances**

- Not applicable

3.2 Mixtures

	CAS Number	EC Number	REACH Registration Number	Concentration	Symbols	H Statements
Styrene	100-42-5	202-851-5	01-2119457861-32-xxxx	< 40%	GHS02 GHS07 GHS08	H226 H332 H304 H315 H319 H361d H372 H412
Aluminium Hydroxide	21645-51-2	244-492-7	01-2119529246-39-XXXX	< 8%		
Silicon dioxide	112945-52-5	231-545-4	01-2119379499-16-XXXX	< 3%		

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Methanol	67-56-1	200-659-6	01-2119433307-44-XXXX	< 1%	GHS02 GHS06 GHS08	H225 H331 H301 H311 H370
ethanediol; ethylene glycol	107-21-1	203-473-3	01-2119456816-28-XXXX	< 1%	GHS07 GHS08	H302;H373
Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified	64742-95-6	265-199-0	01-2119486773-24-XXXX	< 1%	GHS02 GHS08 GHS09	EUH066 H226 H304 H340 H350 H411
2-Hydroxy- 4-Methoxy Benzophenone	131-57-7	205-031-5	01-2119976330-39-XXXX	< 1%	GHS09	H410;H400
cobalt bis(2-ethylhexanoate)	136-52-7	205-250-6	01-2119525678-29-XXXX	< 1%	GHS07 GHS08 GHS09	H317 H319 H360 H412 H400
N,N-DIMETHYL- 3-OXOBUTYRAMIDE	2044-64-6	218-059-8	01-2119963373-34-XXXX	< 1%		
2,6-di-tert-butyl-p-cresol	128-37-0	204-881-4	01-2119565113-46-XXXX	< 0.1%	GHS09	H410;H400
POTASSIUM 2-ETHYLHEXANOATE	3164-85-0	221-625-7	01-2119980714-29-0013	< 0.1%	GHS05 GHS07 GHS08	H315 H318 H361
Methoxy Propoxy Propanol	34590-94-8	252-104-2	01-2119450011-60-xxxx	< 0.1%		
2-ETHYLHEXANOIC ACID	149-57-5	205-743-6	01-2119488942-23	< 0.1%		H361d
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics	64742-48-9	918-481-9	01-2119457273-39-XXXX	< 0.1%	GHS08	EUH066;H304
Neodecanoic acid, cobalt salt	27253-31-2	248-373-0	01-2119970733-31	< 0.1%	GHS07 GHS08	H302 H317 H372 H412
Cobalt Dihydroxide	21041-93-0	244-166-4	01-2119517583-39-XXXX	< 0.1%	GHS06 GHS07 GHS08 GHS09	H330 H302 H317 H319 H334 H350 H360 H410 H411
2,2'-OXYBISETHANOL	111-46-6	203-872-2	01-2119457857-21-0155	< 0.1%	GHS07	H302
4-tert-butylpyrocatechol	98-29-3	202-653-9	01-2119548368-28-0006	< 0.1%	GHS05 GHS09 GHS07	H302 H312 H314 H317 H410 H400
HYDROQUINONE	123-31-9	204-617-8	01-2119524016-51-xxxx	< 0.1%	GHS05 GHS07 GHS08 GHS09	H302 H317 H318 H341 H351 H410 H400
Ethanol	64-17-5	200-578-6	01-2119457610-43-XXXX	< 0.1%	GHS02 GHS07	H225;H319
DIBENZO-1,4-THIAZINE	92-84-2	202-196-5	01-2119488529-19-XXXX	< 0.1%	GHS07 GHS08 GHS09	H302 H317 H373 H410 H400
DIPHENYLAMINE	122-39-4	204-539-4	01-2119488966-13-XXXX	< 0.1%	GHS06 GHS07 GHS08 GHS09	H331 H301 H311 H319 H351 H373 H410 H400
acetone; propan-2-one; propanone	67-64-1	200-662-2	01-2119471330-49-xxxx	< 0.1%	GHS02 GHS07	H225 H336 H319 EUH066
xylene	1330-20-7	215-535-7	01-2119488216-32-XXXX	< 0.1%	GHS02 GHS07 GHS08	H226 H332 H304 H312 H315 H319 H373

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SECTION 3: Composition/information on ingredients (....)

2-methylpropan-1-ol; iso-butanol	78-83-1	201-148-0	01-2119484609-23-XXXX	< 0.1%	GHS02 GHS05 GHS07	H226 H335 H336 H315 H318
ethylbenzene	100-41-4	202-849-4	01-2119489370-35-XXXX	< 0.1%	GHS02 GHS07 GHS08	H225 H332 H304 H373 H412
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	-	919-446-0	01-2119458049-33-XXXX	< 0.1%	GHS02 GHS07 GHS08 GHS09	H226 H304 H372 H411
Hydrocarbons, C9, aromatics	128601-23-0	918-668-5	01-2119455851-35-XXXX	< 0.1%	GHS02 GHS07 GHS08 GHS09	EUH066 H226 H304 H335 H336 H411
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics	-	927-241-2	01-2119471843-32-XXXX	< 0.1%	GHS02 GHS07 GHS08	EUH066 H226 H304 H336 H412
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics		919-857-5	01-2119463258-33-XXXX	< 0.1%	GHS02	H226;H304

	M factor	Specific Concentration Limits	Categories	M factor, acute	M factor, chronic
Styrene		*	Flam. Liq. 3 Acute Tox. 4 Skin Irrit. 2 Eye Irrit. 2 Repr. 2 STOT SE 3 STOT RE 1 Asp. Tox. 1 Aquatic Chronic 3		
Aluminium Hydroxide					
Silicon dioxide					
Methanol			Flam. Liq. 2 Acute Tox. 3 STOT SE 1		
ethanediol; ethylene glycol			Acute Tox. 4 STOT RE 2		
Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified			Flam. Liq. 3 Muta. Cat. 1B Carc. 1B STOT SE 3 Asp. Tox. 1 Aquatic Chronic 2		
2-Hydroxy- 4-Methoxy Benzophenone			Aquatic Acute 1 Aquatic Chronic 1		
cobalt bis(2-ethylhexanoate)	1;1		Eye Irrit. 2 Skin Sens. 1A Repr. Cat. 1B Aquatic Acute 1 Aquatic Chronic 3	1	1
N,N-DIMETHYL- 3-OXOBUTYRAMIDE					
2,6-di-tert-butyl-p-cresol	1;1		Aquatic Acute 1 Aquatic Chronic 1	1	1
POTASSIUM 2-ETHYLHEXANOATE			Skin Irrit. 2 Eye Dam. 1 Repr. Cat. 1B		
Methoxy Propoxy Propanol					
2-ETHYLHEXANOIC ACID			Repr. 2		
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics			Asp. Tox. 1		
Neodecanoic acid, cobalt salt			Acute Tox. 4 Skin Sens. 1 STOT RE 1 Aquatic Chronic 3		

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SECTION 3: Composition/information on ingredients (....)

Cobalt Dihydroxide			Acute Tox. 1 Acute Tox. 4 Eye Irrit. 2 Resp. Sens. 1B Skin Sens. 1 Carc. 1B Repr. Cat. 1B Aquatic Acute 1 Aquatic Chronic 1		
2,2'-OXYBISETHANOL			Acute Tox. 4		
4-tert-butylpyrocatechol	1;1		Acute Tox. 4 Skin Corr. 1B Skin Sens. 1 Aquatic Acute 1 Aquatic Chronic 1	1	1
HYDROQUINONE	10;1		Acute Tox. 4 Eye Dam. 1 Skin Sens. 1 Muta. 2 Carc. 2 Aquatic Acute 1 Aquatic Chronic 1	10	1
Ethanol			Flam. Liq. 2 Eye Irrit. 2		
DIBENZO-1,4-THIAZINE			Acute Tox. 4 Skin Sens. 1 STOT RE 2 Aquatic Acute 1 Aquatic Chronic 1		
DIPHENYLAMINE	1;1		Acute Tox. 3 Eye Irrit. 2 Carc. 2 STOT RE 2 Aquatic Acute 1 Aquatic Chronic 1	1	1
acetone; propan-2-one; propanone			Flam. Liq. 2 Eye Irrit. 2 STOT SE 3		
xylene		*	Flam. Liq. 3 Acute Tox. 4 Skin Irrit. 2 Eye Irrit. 2 STOT SE 3 STOT RE 2 Asp. Tox. 1		
2-methylpropan-1-ol; iso-butanol			Flam. Liq. 3 Skin Irrit. 2 Eye Dam. 1 STOT SE 3		
ethylbenzene			Flam. Liq. 2 Acute Tox. 4 STOT RE 2 Asp. Tox. 1 Aquatic Chronic 3		
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)			Flam. Liq. 3 STOT SE 3 STOT RE 1 Asp. Tox. 1 Aquatic Chronic 2		
Hydrocarbons, C9, aromatics			Flam. Liq. 3 STOT SE 3 Asp. Tox. 1 Aquatic Chronic 2		
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics			Flam. Liq. 3 STOT SE 3 Asp. Tox. 1 Aquatic Chronic 3		
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics			Flam. Liq. 3 STOT SE 3 Asp. Tox. 1		

SECTION 4: First aid measures

4.1 Description of first aid measures

- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

4.1.1 Inhalation

Remove person to fresh air and keep comfortable for breathing.
Seek immediate medical attention

SECTION 4: First aid measures (....)**4.1.2 Contact with skin**

After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of soap and water

Contaminated clothing should be laundered before reuse

When in doubt or symptoms persist, seek medical attention

If skin irritation occurs: Get medical advice/attention.

4.1.3 Contact with eyes

If substance has got into eyes, immediately wash out with plenty of water for at least 15 minutes

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

Seek immediate medical attention

If eye irritation persists: Get medical advice/attention.

4.1.4 Ingestion

Do NOT induce vomiting.

Rinse mouth with water (do not swallow)

Never give anything by mouth to an unconscious person

Seek immediate medical attention

4.2 Most important symptoms and effects, both acute and delayed

- Can cause damage to the eyes
- Can cause damage to the lungs
- Can cause damage to the skin

4.3 Indication of any immediate medical attention and special treatment needed

- Treat symptomatically
-

SECTION 5: Firefighting measures**5.1 Extinguishing media**

- Do not use water jets
- In case of fire: use foam, carbon dioxide or dry agent to extinguish.

5.2 Special hazards arising from the substance or mixture

- Flammable and Toxic
- Vapours are heavier than air and may travel considerable distances to a source of ignition and flashback
- Vapours may ignite

5.3 Advice for firefighters

- Wear Breathing Apparatus
 - Keep container(s) exposed to fire cool, by spraying with water
 - Prevent run off water from entering drains if possible
-

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

- Wear protective clothing as per section 8
- Evacuate the area and keep personnel upwind
- Shut off all ignition sources
- Shut off source of leak if safe to do so

SECTION 6: Accidental release measures (....)

6.2 Environmental precautions

- Avoid release to the environment.
- Do not allow to enter public sewers and watercourses
- If contamination of drainage systems or water courses is unavoidable, immediately inform appropriate authorities

6.3 Methods and material for containment and cleaning up

- Dyke to prevent entry to sewer or waterway. Transfer liquid to a holding container
- Stop leak if safe to do so.
- Absorb spillage in inert material and shovel up
- Place in sealable container
- Use non-sparking tools.
- Ventilate the area and wash spill site after material pick-up is complete

6.4 Reference to other sections

- See Section 8
 - See Section 13
-

SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Wear protective clothing as per section 8
- Ensure adequate ventilation
- Handle and open container with care
- Take action to prevent static discharges.
- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- Avoid breathing dust/fume/gas/mist/vapours/spray.
- Do not get in eyes, on skin, or on clothing.
- Avoid release to the environment.
- Do not eat, drink or smoke when using this product.
- Use explosion-proof equipment.
- Use non-sparking tools.
- Use good personal hygiene practices
- Forms hazardous decomposition products
- Dispose of contents/container to an authorised waste collection point

7.2 Conditions for safe storage, including any incompatibilities

- Keep container tightly closed
- Keep in a cool, dry, well ventilated place
- Opened containers should be carefully resealed and stored in an upright position
- Protect from light
- Protect from moist air
- Forms hazardous decomposition products
- Store locked up.

7.3 Specific end use(s)

- See Section 1.2
-

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

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SECTION 8: Exposure controls/personal protection (....)**Substances**

	DNEL (Consumer; inhalational, short term local effects)	DNEL (Consumer; oral, long term systemic effects)	DNEL (Consumer; dermal, long term systemic effects)	DNEL (Consumer; inhalational, short term systemic effects)	DNEL (Consumer; inhalational, long term systemic effects)	DNEL (Industry; inhalational, short term local effects)
Styrene	182.7 mg/m³	2.1 mg/kg/day	343 mg/kg/day	174.2 mg/m³	10.2 mg/m³	306 mg/m³
Aluminium Hydroxide						
Silicon dioxide						
ethanediol; ethylene glycol			53 mg/kg bw/day			
Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified		11 mg/kg	11 mg/kg		32 mg/m³	
2-Hydroxy- 4-Methoxy Benzophenone		2 mg/kg bw/day	20 mg/kg bw/day		6.8 mg/m³	
cobalt bis(2-ethylhexanoate)					0.175 mg/m³	
N,N-DIMETHYL- 3-OXOBUTYRAMIDE		0.4167 mg/kg bw/day	0.4167 mg/kg bw/day		0.625 mg/m³	
2,6-di-tert-butyl-p-cresol						
Methoxy Propoxy Propanol		36 mg/kg bw/day	121 mg/kg bw/day		37.2 mg/m³	
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics		125 mg/m³	125 mg/kg bw/day		185 mg/m³	
Neodecanoic acid, cobalt salt		0.032 mg/kg bw/day				
Cobalt Dihydroxide		13.6 mg/kg bw/day				
2,2'-OXYBISETHANOL			21 mg/kg bw/day		12 mg/m³	
4-tert-butylpyrocatechol		0.117 mg/kg bw/day			0.365 mg/m³	
HYDROQUINONE		0.6 mg/kg bw/day	1.66 mg/kg bw/day		1.05 mg/m³	
Ethanol	950 mg/m³	87 mg/kg	206 mg/kg		114 mg/m³	1900 mg/m³
DIBENZO-1,4-THIAZINE		0.08 mg/kg bw/day	0.13 mg/m³	0.39 mg/m³		
acetone; propan-2-one; propanone		62 mg/kg bw/day	62 mg/kg bw/day		200 mg/m³	2420 mg/m³
xylene		1.6 mg/kg	108 mg/kg		14.8 mg/m³	289 mg/m³
2-methylpropan-1-ol; iso-butanol		25 mg/kg				
ethylbenzene		1.6 mg/kg bw/day			15 mg/m³	293 mg/m³
Hydrocarbons, C9, aromatics		11 mg/kg	11 mg/kg		32 mg/m³	
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics					3.25 mg/m³	

Substances

	DNEL (Industry; dermal, long term systemic effects)	DNEL (Industry; inhalational, short term systemic effects)	DNEL (Industry; inhalational, long term systemic effects)	WEL (long term)	WEL (short term)	WEL (inhalable dust)
Styrene	406 mg/kg/day	289 mg/m³	85 mg/m³	100 ppm ^ 430 mg/m³	250 ppm ^ 1080 mg/m³	
Aluminium Hydroxide						10 mg/m³
Silicon dioxide						6.0 mg/m³
ethanediol; ethylene glycol	106 mg/kg/day			20 ppm ^ 52 mg/m³	40 ppm ^ 104 mg/m³	
Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified	25 mg/kg		150 mg/m³			
2-Hydroxy- 4-Methoxy Benzophenone	39 mg/kg bw/day		27.7 mg/m³			
cobalt bis(2-ethylhexanoate)				0.1 mg/m³		
N,N-DIMETHYL- 3-OXOBUTYRAMIDE	0.8333 mg/kg bw/day		2.9167 mg/m³			
2,6-di-tert-butyl-p-cresol	0.5 mg/kg		3.5 mg/kg	10 mg/m³		
Methoxy Propoxy Propanol	283 mg/kg bw/day		308 mg/m³	50 ppm ^ 308 mg/m³		

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SECTION 8: Exposure controls/personal protection (....)

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics						
Neodecanoic acid, cobalt salt				0.1 mg/m³		
Cobalt Dihydroxide				0.1 mg/m³		0.02 mg/m³
2,2'-OXYBISETHANOL	43 mg/kg bw/day		44 mg/m³			
4-tert-butylpyrocatechol			1.48 mg/m³			
HYDROQUINONE	3.33 mg/kg		2.1 mg/m³	0.5 mg/m³		
Ethanol	343 mg/kg		950 mg/m³	1000 ppm ^ 1920 mg/m³		
DIBENZO-1,4-THIAZINE	0.15 mg/kg bw/day	1.59 mg/m³	0.53 mg/m³			
acetone; propan-2-one; propanone	186 mg/kg bw/day		1210 mg/m³	500 ppm 1210 mg/m³	1500 ppm 3620 mg/m³	
xylene	180 mg/kg	289 mg/m³	77 mg/m³	50 ppm 220 mg/m³	100 ppm 441 mg/m³	
2-methylpropan-1-ol; iso-butanol				50 ppm 154 mg/m³	75 ppm 231 mg/m³	
ethylbenzene	180 mg/kg bw/day		77 mg/m³	100 ppm 441 mg/m³	125 ppm 552 mg/m³	
Hydrocarbons, C9, aromatics	25 mg/kg		150 mg/m³			
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics			3.25 mg/m³			

Substances

	WEL (respirable dust)	DNEL (Industry; inhalational, long term local effects)	DNEL (Consumer; inhalational, long term local effects)	DNEL (oral)	DNEL (Consumer; oral, short term systemic effects)
Styrene					
Aluminium Hydroxide	4 mg/m³				
Silicon dioxide	2.4 mg/m³	4 mg/m³			
ethanediol; ethylene glycol		35 mg/m³	7 mg/m³		
Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified					
2-Hydroxy-4-Methoxy Benzophenone					
cobalt bis(2-ethylhexanoate)		0.2351 mg/m³	0.037 mg/m³		
N,N-DIMETHYL-3-OXOBUTYRAMIDE					
2,6-di-tert-butyl-p-cresol					
Methoxy Propoxy Propanol					
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics					
Neodecanoic acid, cobalt salt		0.273 mg/m³	0.043 mg/m³		
Cobalt Dihydroxide		0.0631 mg/m³	0.0099 mg/m³	13.6 mg/kg bw/day	
2,2'-OXYBISETHANOL		60 mg/m³	12 mg/m³		
4-tert-butylpyrocatechol					
HYDROQUINONE					
Ethanol					
DIBENZO-1,4-THIAZINE					0.24 mg/kg bw/day
acetone; propan-2-one; propanone					
xylene					
2-methylpropan-1-ol; iso-butanol		310 mg/m³	55 mg/m³		
ethylbenzene					
Hydrocarbons, C9, aromatics					
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics					

SECTION 8: Exposure controls/personal protection (....)**8.2 Exposure controls**

- Wear suitable protective clothing, eye/face protection
- In case of insufficient ventilation, wear suitable respiratory equipment
- Wear suitable gloves: EN374
- Wear suitable protective footwear

**Boots****Gloves****Goggles****8.3 Environmental exposure controls**

- Avoid release to the environment.
 - If contamination of drainage systems or water courses is unavoidable, immediately inform appropriate authorities
-

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

- Physical state: Liquid
- Odour: Smells of solvent
- Odour threshold: No information available
- pH: No information available
- Melting point/Range: No information available
- Freezing point/Range: No information available
- Boiling Point/Range: No information available
- Flashpoint: 31°C
- Evaporation Rate: No information available
- Flammability: Flammable
- Upper/lower flammability or explosive limits: 1.1 - 6.1 % (for styrene)
- Vapour Pressure: 6.65 hPa (styrene vapours at 20°C)
- Vapour Density: No information available
- Relative density: No information available
- Solubility in water: Immiscible with water
- Partition coefficient : n-Octanol/water 2.82 - 2.95 (for styrene)
- Autoignition Temperature: (for styrene) 490°C
- Decomposition temperature: No information available
- Viscosity: 22 - 24 Poise at 25 °C
- Explosive Properties: No information available
- Oxidising Properties: No information available

9.2 Other information

- No information available
-

SECTION 10: Stability and reactivity**10.1 Reactivity**

- No information available

SECTION 10: Stability and reactivity (....)**10.2 Chemical stability**

- This article is considered stable under normal conditions

10.3 Possibility of hazardous reactions

- No hazardous reactions known if used for its intended purpose
- Vapours may ignite

10.4 Conditions to avoid

- Keep away from heat
- Keep away from naked flames, incandescent or hot surfaces
- Keep away from static electricity
- Keep away from strong oxidizing substances

10.5 Incompatible materials

- Incompatible with acids and alkalis
- Incompatible with strong oxidizing substances

10.6 Hazardous decomposition products

- May polymerise on exposure to heat and air
 - Decomposition products may include toxic fumes
-

SECTION 11: Toxicological information**11.1 Information on toxicological effects****11.1.1 Acute toxicity**

Estimated LD₅₀ (oral) (ATE) : 29270.58 mg/kg
Estimated LD₅₀ (dermal) (ATE) : 87811.73 mg/kg
Estimated LD₅₀ (inhalational) (ATE) : 28.69539 mg/l/4hr (gas/vapour)

Substances

	LC ₅₀ (inhalation, rat)	LD ₅₀ (oral, rat)	LD ₅₀ (skin, rat)	LD ₅₀ (dermal, rabbit)	LD ₅₀ (dermal)	LC ₅₀ (inhalation)
Styrene	11.8 mg/l	5000 mg/kg	> 2000 mg/kg			
Aluminium Hydroxide	> 2.3 mg/l	> 2000 mg/kg				
Silicon dioxide		> 5000 mg/kg		> 2000 mg/kg		
ethanediol; ethylene glycol	> 2.5 mg/l	7712 mg/kg			> 3500 mg/kg	
Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified	> 5610 mg/m³	> 5000 mg/kg bw/day		> 6000 mg/kg		
2-Hydroxy- 4-Methoxy Benzophenone		> 12800 mg/kg		> 16000 mg/kg		
cobalt bis(2-ethylhexanoate)		3129 mg/kg	> 5000 mg/kg			
N,N-DIMETHYL- 3-OXOBUTYRAMIDE		> 5000 mg/kg bw/day	> 2000 mg/kg bw/day			
2,6-di-tert-butyl-p-cresol		> 6000 mg/kg	> 2000 mg/kg			
POTASSIUM 2-ETHYLHEXANOATE		> 2000 mg/kg bw/day	> 2000 mg/kg bw/day			
Methoxy Propoxy Propanol	275 ppm	> 5000 mg/kg		9510 mg/kg		
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics	> 6100 mg/m³	> 15000 mg/kg		> 3160 mg/kg bw/day		
Neodecanoic acid, cobalt salt		1098 mg/kg	> 5000 mg/kg			
Cobalt Dihydroxide	0.005 mg/l	1060 mg/kg	> 5000 mg/kg			
2,2'-OXYBISETHANOL	> 4.6 mg/l	19600 mg/kg bw/day		13330 mg/kg bw/day		

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SECTION 11: Toxicological information (....)

4-tert-butylpyrocatechol		815 mg/kg bw/day	1331 mg/kg bw/day			
HYDROQUINONE	> 7.8 mg/l	> 375 mg/kg		> 2000 mg/kg		
Ethanol		> 2000 mg/kg		> 2000 mg/kg		> 20 mg/l
DIPHENYLAMINE		800 mg/kg				
acetone; propan-2-one; propanone	76000 mg/m³	5800 mg/kg bw/day		7400 mg/kg		
xylene		4300 mg/kg		> 4200 mg/kg		
2-methylpropan-1-ol; iso-butanol		> 2830 mg/kg		> 2000 mg/kg		
ethylbenzene	17629 mg/m³	3500 mg/kg		15400 mg/kg		
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	> 13.1 mg/l	> 15000 mg/kg		> 3400 mg/kg		
Hydrocarbons, C9, aromatics		3492 mg/kg		> 3160 mg/kg		
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics	> 6100 mg/m³	> 15000 mg/kg		> 3160 mg/kg		

11.1.2 Skin corrosion/irritation

No information available but must be considered harmful

11.1.3 Serious eye damage/irritation

No information available but must be considered harmful

11.1.4 Respiratory or skin sensitisation

No information available but must be considered harmful

11.1.5 Germ cell mutagenicity

No information available

11.1.6 Carcinogenicity

No information available

11.1.7 Reproductive toxicity

No information available but must be considered harmful

11.1.8 STOT (specific target organ toxicity) - single exposure

No information available but must be considered harmful

11.1.9 STOT (specific target organ toxicity) - repeated exposure

No information available but must be considered harmful

11.1.10 Aspiration hazard

No information available

11.2 Information on other hazards

- No information available

SECTION 12: Ecological information

12.1 Toxicity

Substances

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SECTION 12: Ecological information (....)

	EC ₅₀ (daphnia)	LC ₅₀ (fish)	PNEC (Fresh water)	PNEC (Marine water)	PNEC (Sediment; fresh water)	PNEC (Sediment; marine water)
Styrene	4.7 mg/l (48 hr)	4.02 mg/l (96 hr)	0.028 mg/l	0.0028 mg/l	0.614 mg/kg	0.0614 mg/kg
Methanol	10000 mg/l (48 hr)	10800 mg/l (96 hr)				
ethanediol; ethylene glycol	100 mg/l (48 hr)	752000 mg/l (96 hr)	10 mg/l	1 mg/l	20.9 mg/kg	20.9 mg/kg
Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified	3.2 mg/l (48 hr)					
2,6-di-tert-butyl-p-cresol	0.48 mg/l (48 hr)	199 mg/l (96 hr)	0.000199 mg/l	0.00002 mg/l	0.0996 mg/kg	0.00996 mg/kg
2-Hydroxy- 4-Methoxy Benzophenone	1.87 mg/l (48 hr)	3.8 mg/l (96 hr)	0.00067 mg/l	0.000067 mg/l	0.066 mg/kg	0.07 mg/kg
POTASSIUM 2-ETHYLHEXANOATE	85.4 mg/l (48 hr)	100 mg/l (96 hr)	0.36 mg/l	0.036 mg/l	6.37 mg/kg	0.637 mg/kg
Methoxy Propoxy Propanol		1000 mg/l (96 hr)	19 mg/l	1.9 mg/l	70.2 mg/kg	7.02 mg/kg
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics		1000 mg/l (96 hr)				
cobalt bis(2-ethylhexanoate)			0.00106 mg/l	0.00236 mg/l	53.8 mg/kg	69.8 mg/kg
N,N-DIMETHYL- 3-OXOBUTYRAMIDE	1005 mg/l (48 hr)	977.74 mg/l (96 hr)	0.1227 mg/l	0.01227 mg/l	0.1434 mg/kg	0.0143 mg/kg
Neodecanoic acid, cobalt salt		85.3 mg/l (96 hr)	0.00106 mg/l	0.00236 mg/l	53.8 mg/kg	69.8 mg/kg
Cobalt Dihydroxide			0.00106 mg/l	0.00236 mg/l	53.8 mg/kg	69.8 mg/kg
2,2'-OXYBISETHANOL	62630 mg/l (48 hr)	66000 mg/l (96 hr)	10 mg/l	1 mg/l	20.9 mg/kg	2.09 mg/kg
4-tert-butylpyrocatechol	0.48 mg/l (48 hr)	0.12 mg/l (96 hr)	0.0012 mg/l	0.00012 mg/l	0.0069 mg/kg	0.00069 mg/kg
HYDROQUINONE	0.061 mg/l (48 hr)	0.638 mg/l (96 hr)	0.00057 mg/l	0.000057 mg/l	0.0049 mg/kg	0.00049 mg/kg
Ethanol	10000 mg/l (48 hr)	10000 mg/l (96 hr)	0.96 mg/l	0.79 mg/l	3.6 mg/kg	
DIBENZO-1,4-THIAZINE			0 mg/l	0 mg/l	0.019 mg/kg	0.002 mg/kg
DIPHENYLAMINE	2 mg/l (48 hr)					
acetone; propan-2-one; propanone		5540 mg/l (96 hr)	10.6 mg/l	1.06 mg/l	30.04 mg/kg	3.04 mg/kg
xylene		2.6 mg/l (96 hr)	0.327 mg/l	0.327 mg/l	12.46 mg/kg	12.46 mg/kg
2-methylpropan-1-ol; iso-butanol	1100 mg/l (48 hr)	1430 mg/l (96 hr)	0.4 mg/l	0.04 mg/l	1.56 mg/kg	0.156 mg/kg
ethylbenzene	1.8 mg/l (48 hr)	4.2 mg/l (96 hr)				
Silicon dioxide	500 mg/l (48 hr)	10000 mg/l (96 hr)				
Hydrocarbons, C9, aromatics		100 mg/l (96 hr)	0.1 mg/l		2.5 mg/kg	

Substances

	PNEC (STP)	PNEC (intermittent)	PNEC (Soil)
Styrene	5 mg/l	0.04 mg/l	0.2 mg/kg
Methanol			
ethanediol; ethylene glycol	199.5 mg/l	10 mg/l	1.53 mg/kg
Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified			
2,6-di-tert-butyl-p-cresol		0.00199 mg/l	0.04769 mg/l
2-Hydroxy- 4-Methoxy Benzophenone	10 mg/l	0.0067 mg/l	0.013 mg/kg
POTASSIUM 2-ETHYLHEXANOATE	71.7 mg/l		1.06 mg/kg
Methoxy Propoxy Propanol	4168 mg/l		2.74 mg/kg
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics			
cobalt bis(2-ethylhexanoate)	0.37 mg/l		10.9 mg/kg
N,N-DIMETHYL- 3-OXOBUTYRAMIDE	10 mg/l	1.227 mg/l	0.044 mg/kg
Neodecanoic acid, cobalt salt	0.37 mg/l		10.9 mg/kg
Cobalt Dihydroxide	0.37 mg/l		10.9 mg/kg
2,2'-OXYBISETHANOL	199.5 mg/l	10 mg/l	1.53 mg/kg

SECTION 12: Ecological information (....)

4-tert-butylpyrocatechol	0.16 mg/kg	0.0012 mg/l	0.00068 mg/kg
HYDROQUINONE	0.71 mg/l	0.00134 mg/l	0.00064 mg/kg
Ethanol			0.63 mg/kg
DIBENZO-1,4-THIAZINE	0.54 mg/l	0.002 mg/l	0.023 mg/kg
DIPHENYLAMINE			
acetone; propan-2-one; propanone	100 mg/l	21 mg/l	29.5 mg/kg
xylene	6.58 mg/l	0.327 mg/l	2.31 mg/kg
2-methylpropan-1-ol; iso-butanol	10 mg/l	11 mg/l	0.0765 mg/kg
ethylbenzene			
Silicon dioxide			
Hydrocarbons, C9, aromatics	1.6 mg/l		1.1 mg/kg

12.2 Persistence and degradability

- No information available

12.3 Bioaccumulative potential

- No information available

12.4 Mobility in soil

- immiscible with water

12.5 Results of PBT and vPvB assessment

- No information available

12.6 Other adverse effects

- No information available

SECTION 13: Disposal considerations**13.1 Waste treatment methods**

- Disposal should be in accordance with local, state or national legislation
- Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point
- Dispose of contents/container to an authorised waste collection point

SECTION 14: Transport information**Flammable Liquid****14.1 UN number or ID number**

- UN No.: 1866

14.2 UN proper shipping name

- Proper Shipping Name: RESIN SOLUTION

14.3 Transport hazard class(es)

- Hazard Class: 3

14.4 Packing group

SECTION 14: Transport information (....)

- Packing Group: III

14.5 Environmental hazards

- Not applicable

14.6 Special precautions for user

- ADR Classification Code: F1
- Tunnel Bulk Restriction Codes: B/C/D

14.7 Maritime transport in bulk according to IMO instruments

- No information available
-

SECTION 15: Regulatory information

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

- The ADR Regulations apply in the UK
- The CLP Regulations apply in the UK
- The COSHH Regulations apply in the UK
- The Health and Safety at Work Act applies in the UK
- The Hazardous Waste (England and Wales) Regulations 2005 apply in the UK

15.2 Chemical safety assessment

- A REACH chemical safety assessment has not been carried out
-

SECTION 16: Other information

Text not given with phrase codes where they are used elsewhere in this safety data sheet:-
EUH066: Repeated exposure may cause skin dryness or cracking. H225: Highly flammable liquid and vapour. H226: Flammable liquid and vapour. H301: Toxic if swallowed. H302: Harmful if swallowed. H304: May be fatal if swallowed and enters airways. H311: Toxic in contact with skin. H312: Harmful in contact with skin. H314: Causes severe skin burns and eye damage. H315: Causes skin irritation. H317: May cause an allergic skin reaction. H318: Causes serious eye damage. H319: Causes serious eye irritation. H330: Fatal if inhaled. H331: Toxic if inhaled. H332: Harmful if inhaled. H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335: May cause respiratory irritation. H336: May cause drowsiness or dizziness. H340: May cause genetic defects. H341: Suspected of causing genetic defects. H350: May cause cancer. H351: Suspected of causing cancer. H360: May damage fertility or the unborn child. H361: Suspected of damaging fertility or the unborn child. H361d: Suspected of damaging the unborn child. H370: Causes damage to organs. H372: Causes damage to organs through prolonged or repeated exposure. H373: May cause damage to organs through prolonged or repeated exposure. 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. H412: Harmful to aquatic life with long lasting effects.

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.