



<b>SAFETY DATA SHEET</b>	Revision Date: 10.11.2022
	Print Date: 31.03.2023
	SDS Number: 000000288312
AME 5000™ INF-90 LV RESIN ™ Trademark, INEOS or its subsidiaries, registered in various countries 912657	Version: 3.1

Conforms to EU Regulation 1907/2006/EC as amended. - SDSGHS\_ES

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

### 1.1 Product identifier

Trade name : AME 5000™ INF-90 LV  
RESIN  
™ Trademark, INEOS or its subsidiaries, registered in  
various countries

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

Recommended use : Reserved for industrial and professional use.

Restrictions on use

Consumer use

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

INEOS Composites Hispania S.L.  
Carretera Reial 137-139  
08960 Sant Just Desvern - Barcelona  
Spain  
+34 93 206 51 20 (in Spain)

sds.composites@ineos.com

### 1.4 Emergency telephone number

001-800-424-9300/001-703-527-3887, or contact  
your local emergency telephone number at + 34  
91 562 04 20

### Regulatory Information Number

+34 93 206 51 20 (in Spain), or contact your local  
CSR contact person

### Product Information

+34 93 206 51 20 (in Spain)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 3

H226: Flammable liquid and vapour.

Skin irritation, Category 2

H315: Causes skin irritation.

Eye irritation, Category 2

H319: Causes serious eye irritation.

# INEOS

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Skin sensitisation, Category 1

H317: May cause an allergic skin reaction.

Reproductive toxicity, Category 2

H361d: Suspected of damaging the unborn child.

Specific target organ toxicity - single exposure, Category 3, Respiratory system

H335: May cause respiratory irritation.

Specific target organ toxicity - repeated exposure, Category 1, hearing organs

H372: Causes damage to organs through prolonged or repeated exposure.

Long-term (chronic) aquatic hazard, Category 3

H412: Harmful to aquatic life with long lasting effects.

### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger

Hazard statements :

- H226 Flammable liquid and vapour.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.
- H361d Suspected of damaging the unborn child.
- H372 Causes damage to organs (hearing organs) through prolonged or repeated exposure.
- H412 Harmful to aquatic life with long lasting effects.

Precautionary statements :

**Prevention:**

- P201 Obtain special instructions before use.
- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P260 Do not breathe mist or vapours.
- P264 Wash skin thoroughly after handling.
- P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

**Response:**


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P370 + P378 In case of fire: Use dry sand, dry chemical or  
 alcohol-resistant foam to extinguish.

**Hazardous components which must be listed on the label:**

Styrene

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane,  
 reaction products with maleic anhydride and methacrylic acid

2-Phenylpropene

cobalt bis(2-ethylhexanoate)

**2.3 Other hazards**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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**SECTION 3: Composition/information on ingredients**
**3.2 Mixtures**
**Components**

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Styrene	100-42-5 202-851-5 601-026-00-0 01-2119457861-32- xxxx	Flam. Liq. 3; H226 Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Repr. 2; H361d STOT SE 3; H335 (Respiratory system) STOT RE 1; H372 (hearing organs)	>= 25 - < 40



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		Asp. Tox. 1; H304 Aquatic Chronic 3; H412	
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with maleic anhydride and methacrylic acid	36425-16-8 5000906	Skin Sens. 1B; H317	>= 5 - < 10
2-Phenylpropene	98-83-9 202-705-0 601-027-00-6 01-2119472426-35- XXXX	Flam. Liq. 3; H226 Eye Irrit. 2; H319 Repr. 2; H361 STOT SE 3; H335 (Respiratory system) Aquatic Chronic 2; H411  specific concentration limit STOT SE 3; H335 >= 25 %	>= 1 - < 2,5
methacrylic acid	79-41-4 201-204-4 607-088-00-5	Acute Tox. 4; H302 Acute Tox. 4; H332 Acute Tox. 3; H311 Skin Corr. 1A; H314 Eye Dam. 1; H318 STOT SE 3; H335 (Respiratory system)  specific concentration limit STOT SE 3; H335 >= 1 %	>= 0,1 - < 0,5
cobalt bis(2-ethylhexanoate)	136-52-7 205-250-6 01-2119524678-29- xxxx	Eye Irrit. 2; H319 Skin Sens. 1A; H317 Repr. 1B; H360Fd Aquatic Acute 1; H400 Aquatic Chronic 3; H412  M-Factor (Acute aquatic toxicity): 1	>= 0,025 - < 0,1
Hydroquinone	123-31-9	Acute Tox. 4; H302	>= 0,025 - <


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	204-617-8 604-005-00-4	Eye Dam. 1; H318 Skin Sens. 1; H317 Muta. 2; H341 Carc. 2; H351 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 <hr/> M-Factor (Acute aquatic toxicity): 10	0,1
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For explanation of abbreviations see section 16.

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**SECTION 4: First aid measures**
**4.1 Description of first aid measures**

- General advice : Move out of dangerous area.  
 Call a POISON CENTRE or doctor/physician if exposed or  
 you feel unwell.  
 Show this safety data sheet to the doctor in attendance.  
 Do not leave the victim unattended.
- If inhaled : Move to fresh air.  
 IF INHALED: Call a POISON CENTER/ doctor if you feel  
 unwell.  
 Keep patient warm and at rest.  
 If unconscious, place in recovery position and seek medical  
 advice.
- In case of skin contact : Remove contaminated clothing. If irritation develops, get  
 medical attention.  
 If on skin, rinse well with water.  
 Wash contaminated clothing before re-use.  
 If on clothes, remove clothes.
- In case of eye contact : Immediately flush eye(s) with plenty of water.  
 Remove contact lenses.  
 Protect unharmed eye.
- If swallowed : Obtain medical attention.  
 Do not give milk or alcoholic beverages.


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Never give anything by mouth to an unconscious person.  
 If symptoms persist, call a physician.

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

Symptoms : Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include:  
 stomach or intestinal upset (nausea, vomiting, diarrhea)  
 irritation (nose, throat, airways)  
 confusion

Risks :  
 Causes skin irritation.  
 May cause an allergic skin reaction.  
 Causes serious eye irritation.  
 May cause respiratory irritation.  
 Suspected of damaging the unborn child.  
 Causes damage to organs through prolonged or repeated exposure.

**4.3 Indication of any immediate medical attention and special treatment needed**

Treatment : No hazards which require special first aid measures.

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

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
 Water spray  
 Foam  
 Alcohol-resistant foam  
 Carbon dioxide (CO<sub>2</sub>)  
 Dry chemical

Unsuitable extinguishing media : High volume water jet

**5.2 Special hazards arising from the substance or mixture**

Specific hazards during firefighting : Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite



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explosively.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.  
Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Carbon dioxide (CO<sub>2</sub>)  
Carbon monoxide  
Hydrocarbons

### 5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Specific extinguishing methods : Product is compatible with standard fire-fighting agents.

Further information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.  
Use a water spray to cool fully closed containers.

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Evacuate personnel to safe areas.  
Remove all sources of ignition.  
Use personal protective equipment.  
Ensure adequate ventilation.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.  
Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.  
Comply with all applicable federal, state, and local regulations.  
Suppress (knock down) gases/vapours/mists with a water spray jet.

### 6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform



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respective authorities.

### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

### 6.4 Reference to other sections

For further information see Section 8 and Section 13 of the safety data sheet.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Open drum carefully as content may be under pressure.  
Avoid formation of aerosol.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Do not breathe vapours/dust.  
Do not smoke.  
Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.  
Container hazardous when empty.  
Take precautionary measures against static discharges.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
Smoking, eating and drinking should be prohibited in the application area.  
For personal protection see section 8.  
Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion : Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). No sparking tools should be used. Keep away from open flames, hot surfaces and sources of ignition. Use only explosion-proof equipment.

Hygiene measures : Wash hands before breaks and at the end of workday. When using do not eat or drink. When using do not smoke.




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**7.2 Conditions for safe storage, including any incompatibilities**

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. No smoking.

Other data : No decomposition if stored and applied as directed.

**7.3 Specific end use(s)**

Specific use(s) : No data available

**SECTION 8: Exposure controls/personal protection**
**8.1 Control parameters**
**Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Styrene	100-42-5	VLA-EC	40 ppm 172 mg/m <sup>3</sup>	ES VLA
		VLA-ED	20 ppm 86 mg/m <sup>3</sup>	ES VLA
2-Phenylpropene	98-83-9	STEL	100 ppm 492 mg/m <sup>3</sup>	2000/39/EC
		TWA	50 ppm 246 mg/m <sup>3</sup>	2000/39/EC
		VLA-ED	50 ppm 246 mg/m <sup>3</sup>	ES VLA
methacrylic acid	79-41-4	VLA-EC	100 ppm 492 mg/m <sup>3</sup>	ES VLA
		VLA-ED	20 ppm 72 mg/m <sup>3</sup>	ES VLA
Hydroquinone	123-31-9	VLA-ED	2 mg/m <sup>3</sup>	ES VLA

**Biological occupational exposure limits**

Substance name	CAS-No.	Control parameters	Sampling time	Basis
Styrene	100-42-5	mandelic acid and phenylglyoxilic acid: 400	End of workday	ES VLB


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		mg/g Creatinine When the end of the exposure does not coincide with the end of the workday, the sample is taken as soon as possible after the actual exposure has stopped, The biological indicator is non-specific because it can be found after exposure to other chemical agents.(Urine)		
		styrene: 0,2 mg/l When the end of the exposure does not coincide with the end of the workday, the sample is taken as soon as possible after the actual exposure has stopped, The biological indicator is an indicator of exposure to the chemical agent in question, but that the quantitative interpretation of its measurement is ambiguous (semi-quantitative). These biological indicators should be used as a screening test when a quantitative test is not possible or used as a confirmatory test if the quantitative test is	End of workday	ES VLB


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		not specific and the origin of the determinant is doubtful.(venous blood)		
HYDROQUINONE	123-31-9	<p>methemoglobin: 1.5 %          metahaemoglobine on total haemoglobine          When the end of the exposure does not coincide with the end of the workday, the sample is taken as soon as possible after the actual exposure has stopped,          Background. The biological indicator is normally present in detectable quantities in people who are not occupationally exposed. These background levels are taken into account in the VLB.,          The biological indicator is non-specific because it can be found after exposure to other chemical agents.,          The biological indicator is an indicator of exposure to the chemical agent in question, but that the quantitative interpretation of its measurement is</p>	End of workday	ES VLB

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ambiguous (semi-quantitative). These biological indicators should be used as a screening test when a quantitative test is not possible or used as a confirmatory test if the quantitative test is not specific and the origin of the determinant is doubtful.(Blood)

### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Styrene

- : End Use: Workers
- Exposure routes: Inhalation
- Potential health effects: Short-term exposure, Systemic effects
- Value: 289 mg/m<sup>3</sup>
- End Use: Workers
- Exposure routes: Inhalation
- Potential health effects: Short-term exposure, Local effects
- Value: 306 mg/m<sup>3</sup>
- End Use: Workers
- Exposure routes: Inhalation
- Potential health effects: Long-term exposure, Systemic effects
- Value: 85 mg/m<sup>3</sup>
- End Use: Workers
- Exposure routes: Skin contact
- Potential health effects: Long-term exposure, Systemic effects
- Value: 406 mg/kg
- End Use: Consumers
- Exposure routes: Inhalation
- Potential health effects: Short-term exposure, Systemic effects
- Value: 174,25 mg/m<sup>3</sup>
- End Use: Consumers
- Exposure routes: Inhalation
- Potential health effects: Short-term exposure, Local effects
- Value: 182,75 mg/m<sup>3</sup>
- End Use: Consumers
- Exposure routes: Skin contact
- Potential health effects: Long-term exposure, Systemic effects
- Value: 343 mg/kg
- End Use: Consumers
- Exposure routes: Ingestion

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Potential health effects: Long-term exposure, Systemic effects

Value: 2,1 mg/kg

End Use: Consumers

Exposure routes: Inhalation

Potential health effects: Long-term exposure, Systemic effects

Value: 10,2 mg/m<sup>3</sup>

### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Styrene : Fresh water  
 Value: 0,028 mg/l  
 Fresh water  
 Value: 0,04 mg/l Intermittent use/release

Marine water  
 Value: 0,014 mg/l  
 Sewage treatment plant  
 Value: 5 mg/l  
 Fresh water sediment  
 Value: 0,614 mg/kg  
 Marine sediment  
 Value: 0,307 mg/kg  
 Soil  
 Value: 0,2 mg/kg

## 8.2 Exposure controls

### Engineering measures

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

### Personal protective equipment

Eye protection : Wear chemical splash goggles when there is the potential for exposure of the eyes to liquid, vapor or mist.

Use eye protection according to EN 166.

### Hand protection

Material : Laminate (Barrier© or Silvershield©)  
 Break through time : 480 min  
 Glove thickness : > 0,5 mm

Remarks : The exact break through time can be obtained from the protective glove producer and this has to be observed. Gloves should be discarded and replaced if there is any indication of


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degradation or chemical breakthrough.

The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

Skin and body protection : Wear as appropriate:  
 Impervious clothing  
 Safety shoes  
 Flame-resistant clothing  
 Choose body protection according to the amount and concentration of the dangerous substance at the work place.  
 Discard gloves that show tears, pinholes, or signs of wear.

Protective clothing complying with EN 13688.  
 Safety shoes complying with EN ISO 20345.

Respiratory protection : In the case of vapour formation use a respirator with an approved filter.

Filter type : Organic vapour type (A)

Respiratory protection complying with EN 136.  
 Respiratory protection complying with EN 140.  
 Respiratory protection complying with EN 14387.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state : liquid

Odour : aromatic

Odour Threshold : No data available

Melting point/freezing point : No data available

Boiling point/boiling range : No data available

Flammability : No data available

Upper explosion limit / Upper flammability limit : No data available


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Lower explosion limit / Lower flammability limit : No data available

Flash point : 29,4 °C  
Method: ASTM D 56

Decomposition temperature : No data available

pH : No data available

Viscosity

    Viscosity, dynamic : No data available

    Viscosity, kinematic : > 20,5 mm<sup>2</sup>/s (40 °C)

Solubility(ies)

    Water solubility : No data available

    Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : No data available

Vapour pressure : No data available

Relative density : No data available

Density : No data available

Relative vapour density : No data available

**9.2 Other information**

Oxidizing properties : No data available

Self-ignition : No data available

Evaporation rate : No data available


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

No decomposition if stored and applied as directed.

**10.2 Chemical stability**

Stable under recommended storage conditions.

**10.3 Possibility of hazardous reactions**

Hazardous reactions : Hazardous polymerisation may occur.  
 Vapours may form explosive mixture with air.

**10.4 Conditions to avoid**

Conditions to avoid : Exposure to air.  
 Exposure to sunlight.  
 Heat, flames and sparks.

**10.5 Incompatible materials**

Materials to avoid : Acids  
 aluminum  
 aluminum chloride  
 Bases  
 Copper  
 Copper alloys  
 halogenated hydrocarbons  
 halogens  
 iron chloride  
 metal salts  
 Strong oxidizing agents  
 Peroxides

**10.6 Hazardous decomposition products**

Hazardous decomposition products : Hydrocarbons  
 Acetone  
 Carbon dioxide (CO<sub>2</sub>)  
 Carbon monoxide




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**SECTION 11: Toxicological information**
**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

Information on likely routes of exposure : Inhalation  
 Skin contact  
 Eye Contact  
 Ingestion

**Acute toxicity**

Not classified based on available information.

**Product:**

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l  
 Exposure time: 4 h  
 Test atmosphere: vapour  
 Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 2.000 mg/kg  
 Method: Calculation method

**Components:**
**Styrene:**

Acute oral toxicity : LD50 (Rat): > 2.000 mg/kg

Acute inhalation toxicity : LC50 (Rat): 11,8 mg/l, 2770 ppm  
 Exposure time: 4 h  
 Test atmosphere: vapour

No observed adverse effect level (Humans): 100 ppm  
 Exposure time: 7 h  
 Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg  
 Method: OECD Test Guideline 402  
 Assessment: No adverse effect has been observed in acute dermal toxicity tests.

**4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with maleic anhydride and methacrylic acid:**

Acute oral toxicity : LD50 (Rat, female): > 2.000 mg/kg


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Method: OECD Test Guideline 423

GLP: yes

Assessment: Not classified as acutely toxic by ingestion under GHS.

**2-Phenylpropene:**

Acute oral toxicity : LD50 (Rat): 4.900 mg/kg

Acute inhalation toxicity : LC50 (Rat): ca. 22,85 mg/l  
 Exposure time: 6 h  
 Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rabbit): 14,6 g/kg

**methacrylic acid:**

Acute oral toxicity : LD50 (Mouse): 1.250 mg/kg

LD50 (Rat, male): 1.320 mg/kg  
 Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): 7,1 mg/l  
 Exposure time: 4 h  
 Test atmosphere: vapour  
 Method: OECD Test Guideline 403  
 Assessment: The component/mixture is classified as acute inhalation toxicity, category 4., The component/mixture is moderately toxic after short term inhalation.

Acute dermal toxicity : LD50 (Rabbit): 500 - 1.000 mg/kg

**cobalt bis(2-ethylhexanoate):**

Acute oral toxicity : LD50 (Rat, female): ca. 3.129 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 10 mg/l  
 Exposure time: 1 h  
 Test atmosphere: dust/mist  
 Assessment: Not classified as acutely toxic by inhalation under GHS., No adverse effect has been observed in acute inhalation toxicity tests.

Acute dermal toxicity : LD50 (Rabbit): &gt; 5.000 mg/kg


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**Hydroquinone:**

- Acute oral toxicity : LD50 (Rat, female): 367 mg/kg  
 Method: OECD Test Guideline 401  
 GLP: yes
- Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg  
 Method: OECD Test Guideline 402  
 GLP: yes  
 Assessment: No adverse effect has been observed in acute  
 dermal toxicity tests.

**Skin corrosion/irritation**

Causes skin irritation.

**Product:**

- Result : Repeated exposure may cause skin dryness or cracking.
- Remarks : May cause skin irritation and/or dermatitis.

**Components:**
**Styrene:**

- Species : Rabbit  
 Result : Irritating to skin.
- Species : human skin  
 Result : No skin irritation

**4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with maleic anhydride and methacrylic acid:**

- Species : reconstructed human epidermis (RhE)  
 Method : OECD Test Guideline 439  
 Result : No skin irritation  
 GLP : yes

**2-Phenylpropene:**

- Species : Rabbit  
 Result : Slight, transient irritation

**methacrylic acid:**

- Method : OECD Test Guideline 404  
 Result : Corrosive after 3 minutes or less of exposure


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**cobalt bis(2-ethylhexanoate):**

Result : No skin irritation

**Hydroquinone:**

Result : No skin irritation

**Serious eye damage/eye irritation**

Causes serious eye irritation.

**Product:**

Remarks : Vapours may cause irritation to the eyes, respiratory system  
 and the skin.  
 Causes serious eye irritation.

**Components:**
**Styrene:**

Result : Irritating to eyes.  
 Remarks : Vapour during processing may be irritating to the respiratory  
 tract and to the eyes.

**4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane,  
 reaction products with maleic anhydride and methacrylic acid:**

Species : Bovine cornea  
 Method : OECD Test Guideline 437  
 Result : No eye irritation  
 GLP : yes

**2-Phenylpropene:**

Species : Rabbit  
 Result : Irritating to eyes.

**methacrylic acid:**

Result : Corrosive

**cobalt bis(2-ethylhexanoate):**

Species : Rabbit  
 Method : OECD Test Guideline 405  
 Result : Irritating to eyes.


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**Hydroquinone:**

Result : Corrosive

**Respiratory or skin sensitisation**
**Skin sensitisation**

May cause an allergic skin reaction.

**Respiratory sensitisation**

Not classified based on available information.

**Product:**

Remarks : May cause allergic skin reaction.

**Components:**
**Styrene:**

Exposure routes : Skin contact  
 Species : Guinea pig  
 Assessment : Does not cause skin sensitisation.  
 Result : negative

Exposure routes : inhalation (vapour)  
 Species : Humans  
 Assessment : Does not cause respiratory sensitisation.  
 Result : negative

**4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with maleic anhydride and methacrylic acid:**

Assessment : The product is a skin sensitiser, sub-category 1B.  
 Method : Maximisation Test

**methacrylic acid:**

Test Type : Buehler Test  
 Species : Guinea pig  
 Assessment : Did not cause sensitisation on laboratory animals.  
 Method : OECD Test Guideline 406

**cobalt bis(2-ethylhexanoate):**

Test Type : Local lymph node assay  
 Species : Mouse


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Assessment : The product is a skin sensitiser, sub-category 1A.  
Method : OECD Test Guideline 429  
Remarks : Information given is based on data obtained from similar  
substances.

**Hydroquinone:**

Assessment : The product is a skin sensitiser, sub-category 1B.

**Germ cell mutagenicity**

Not classified based on available information.

**Components:**
**4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with maleic anhydride and methacrylic acid:**

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro  
Test system: Human lymphocytes  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 473  
Result: negative  
GLP: yes

Test Type: Ames test  
Test system: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
GLP: yes

Test Type: in vitro assay  
Test system: Chinese hamster fibroblasts  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative  
GLP: yes

**2-Phenylpropene:**

Genotoxicity in vitro : Test Type: Ames test  
Test system: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative

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### **methacrylic acid:**

- Genotoxicity in vitro : Test Type: Ames test  
Method: OECD Test Guideline 471  
Result: negative
- Test Type: Chromosome aberration test in vitro  
Method: OECD Test Guideline 487  
Result: negative
- Genotoxicity in vivo : Test Type: Mammalian bone marrow sister chromatid  
exchange  
Species: Rat (male)  
Cell type: Bone marrow  
Method: OECD Test Guideline 475  
Result: negative
- Species: Mouse (male)  
Method: OECD Test Guideline 478  
Result: negative
- Test Type: Micronucleus test  
Species: Mouse (male)  
Cell type: peripheral blood cells  
Method: OECD Test Guideline 474  
Result: negative

### **cobalt bis(2-ethylhexanoate):**

- Genotoxicity in vitro : Test Type: Ames test  
Result: negative
- Genotoxicity in vivo : Test Type: In vivo micronucleus test  
Result: negative

### **Hydroquinone:**

- Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test  
Test system: mouse lymphoma cells  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: positive
- Genotoxicity in vivo : Test Type: Micronucleus test  
Species: Mouse  
Cell type: Bone marrow  
Method: OECD Test Guideline 474


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Result: positive

Germ cell mutagenicity-  
 Assessment : Positive result(s) from in vivo somatic cell mutagenicity tests supported by positive results from in vitro mutagenicity assays or chemical structure activity relationship to known germ cell mutagens

**Carcinogenicity**

Not classified based on available information.

**Components:**
**Hydroquinone:**

Carcinogenicity -  
 Assessment : Limited evidence of carcinogenicity in animal studies

**Reproductive toxicity**

Suspected of damaging the unborn child.

**Components:**
**Styrene:**

Reproductive toxicity -  
 Assessment : Some evidence of adverse effects on development, based on animal experiments.

**2-Phenylpropene:**

Reproductive toxicity -  
 Assessment : Some evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments.

**methacrylic acid:**

Effects on fertility : Species: Rat  
 Application Route: Oral  
 Fertility: NOAEL Mating/Fertility: 400 mg/kg body weight  
 Symptoms: No effects on fertility, No effects on reproduction parameters  
 Method: OECD Test Guideline 416

Effects on foetal development : Species: Rabbit  
 Application Route: Oral  
 Developmental Toxicity: NOAEL F1: 450 mg/kg body weight  
 Symptoms: No specific developmental abnormalities  
 Method: OECD Test Guideline 414




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**cobalt bis(2-ethylhexanoate):**

Reproductive toxicity - Assessment : Clear evidence of adverse effects on sexual function and fertility, based on animal experiments., Some evidence of adverse effects on development, based on animal experiments.

**STOT - single exposure**

May cause respiratory irritation.

**Components:**
**Styrene:**

Assessment : May cause respiratory irritation.

**2-Phenylpropene:**

Exposure routes : Inhalation  
 Target Organs : Respiratory Tract  
 Assessment : May cause respiratory irritation.

**methacrylic acid:**

Exposure routes : Inhalation  
 Target Organs : Respiratory Tract  
 Assessment : May cause respiratory irritation.

**STOT - repeated exposure**

Causes damage to organs (hearing organs) through prolonged or repeated exposure.

**Components:**
**Styrene:**

Exposure routes : inhalation (vapour)  
 Target Organs : Auditory system  
 Assessment : Causes damage to organs through prolonged or repeated exposure.

**Repeated dose toxicity**
**Components:**
**Styrene:**

Species : Human  
 : 85 mg/m<sup>3</sup>


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Application Route : inhalation (vapour)

Species : Human  
 : 615 mg/kg

Application Route : Skin contact

**methacrylic acid:**

Species : Rat, male and female  
 : 352 mg/m<sup>3</sup>

Application Route : inhalation (dust/mist/fume)

Exposure time : 90 Days

Control Group : yes

Symptoms : Local irritation, Reduced body weight

**Aspiration toxicity**

Not classified based on available information.

**Components:**
**Styrene:**

May be fatal if swallowed and enters airways.

**11.2 Information on other hazards**
**Endocrine disrupting properties**
**Product:**

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**Further information**
**Product:**

Remarks : Solvents may degrease the skin.

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**SECTION 12: Ecological information**
**12.1 Toxicity**
Components:
**Styrene:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 4,02 mg/l  
 Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 4,7 mg/l  
 aquatic invertebrates Exposure time: 48 h

Toxicity to algae/aquatic : ErC50 (Pseudokirchneriella subcapitata (green algae)): 4,9  
 plants mg/l  
 Exposure time: 72 h

EC10 (Pseudokirchneriella subcapitata (green algae)): 0,28  
 mg/l  
 Exposure time: 96 h

Toxicity to microorganisms : EC50 (activated sludge): ca. 500 mg/l  
 Exposure time: 0,5 h

Toxicity to daphnia and other : NOEC: 1,01 mg/l  
 aquatic invertebrates Exposure time: 21 d  
 (Chronic toxicity) Species: Daphnia magna (Water flea)

Toxicity to soil dwelling : NOEC: 34 mg/kg  
 organisms Exposure time: 14 d  
 Species: Eisenia fetida (earthworms)  
 Method: OECD Test Guideline 207

**4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with maleic anhydride and methacrylic acid:**

Toxicity to fish : LC50 (Cyprinus carpio (Carp)): > 38 mg/l  
 Exposure time: 96 h  
 Test Type: semi-static test  
 Test substance: WAF  
 Method: OECD Test Guideline 203  
 GLP: yes  
 Remarks: No toxicity at the limit of solubility

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Toxicity to daphnia and other aquatic invertebrates : (Daphnia magna (Water flea)): Exposure time: 48 h  
 Test Type: static test  
 Method: OECD Test Guideline 202  
 GLP: yes  
 Remarks: No toxicity at the limit of solubility

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l  
 Exposure time: 72 h  
 Test Type: static test  
 Method: OECD Test Guideline 201  
 GLP: yes

Toxicity to microorganisms : EC50 (activated sludge): > 100 mg/l  
 Exposure time: 3 h  
 Test Type: Static  
 Method: OECD Test Guideline 209  
 GLP: yes

### 2-Phenylpropene:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 2,97 mg/l  
 Exposure time: 96 h  
 Test Type: static test  
 Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1,645 mg/l  
 Exposure time: 48 h  
 Test Type: static test  
 Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 11,441 mg/l  
 End point: Growth inhibition  
 Exposure time: 72 h  
 Test Type: static test  
 Method: OECD Test Guideline 201

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,401 mg/l  
 Exposure time: 21 d  
 Species: Daphnia magna (Water flea)  
 Test Type: semi-static test  
 Method: OECD Test Guideline 211


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**methacrylic acid:**

- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 85 mg/l  
 Exposure time: 96 h  
 Test Type: flow-through test
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 130 mg/l  
 Exposure time: 48 h  
 Test Type: flow-through test
- Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 20 mg/l  
 End point: Biomass  
 Exposure time: 72 h  
 Test Type: flow-through test  
 Method: OECD Test Guideline 201
- Toxicity to fish (Chronic toxicity) : NOEC: 10 mg/l  
 Exposure time: 35 d  
 Species: Danio rerio (zebra fish)  
 Test Type: flow-through test  
 Method: OECD Test Guideline 210
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 53 mg/l  
 Exposure time: 21 d  
 Species: Daphnia magna (Water flea)  
 Test Type: flow-through test  
 Method: OECD Test Guideline 211

**cobalt bis(2-ethylhexanoate):**

- M-Factor (Acute aquatic toxicity) : 1

**Ecotoxicology Assessment**

- Acute aquatic toxicity : Very toxic to aquatic life.
- Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

**Hydroquinone:**

- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0,638 mg/l  
 Exposure time: 96 h  
 Test Type: flow-through test
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,134 mg/l  
 Exposure time: 48 h


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Test Type: static test  
 Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (microalgae)): 0,053 mg/l  
 End point: Growth inhibition  
 Exposure time: 72 h  
 Test Type: static test  
 Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (microalgae)): 0,0015 mg/l  
 End point: Growth inhibition  
 Exposure time: 72 h  
 Test Type: static test  
 Method: OECD Test Guideline 201

M-Factor (Acute aquatic toxicity) : 10

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,0029 mg/l  
 Exposure time: 21 d  
 Species: Daphnia magna (Water flea)  
 Test Type: semi-static test  
 Method: OECD Test Guideline 211

## 12.2 Persistence and degradability

### Components:

#### **Styrene:**

Biodegradability : Result: Readily biodegradable.  
 Biodegradation: > 60 %  
 Exposure time: 10 d

#### **4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with maleic anhydride and methacrylic acid:**

Biodegradability : Result: Not readily biodegradable.

#### **2-Phenylpropene:**

Biodegradability : Test Type: aerobic  
 Inoculum: activated sludge  
 Result: Not readily biodegradable.


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Biodegradation: 21 %  
 Exposure time: 28 d  
 Method: OECD Test Guideline 301F

**methacrylic acid:**

Biodegradability : Inoculum: activated sludge  
 Result: Readily biodegradable.  
 Biodegradation: 87 %  
 Exposure time: 28 d

**cobalt bis(2-ethylhexanoate):**

Biodegradability : Result: Readily biodegradable.  
 Biodegradation: 60 %  
 Exposure time: 10 d  
 Method: OECD Test Guideline 301B

**Hydroquinone:**

Biodegradability : Result: Readily biodegradable.  
 Biodegradation: 70 %  
 Exposure time: 14 d  
 Method: OECD Test Guideline 301C

**12.3 Bioaccumulative potential**
**Components:**
**Styrene:**

Bioaccumulation : Bioconcentration factor (BCF): < 100

Partition coefficient: n-  
 octanol/water : log Pow: 2,96 (25 °C)

**2-Phenylpropene:**

Partition coefficient: n-  
 octanol/water : log Pow: 3,48

**methacrylic acid:**

Bioaccumulation : Bioconcentration factor (BCF): 1,0  
 Remarks: Bioaccumulation is unlikely.

Partition coefficient: n- : log Pow: 0,93


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octanol/water

**Hydroquinone:**

Partition coefficient: n- : log Pow: 0,59  
 octanol/water

**12.4 Mobility in soil**
**Components:**
**Styrene:**

Distribution among : Koc: 352  
 environmental compartments

**12.5 Results of PBT and vPvB assessment**
**Product:**

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**Components:**
**Styrene:**

Assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT).. This substance is not considered to be very persistent and very bioaccumulating (vPvB).

**2-Phenylpropene:**

Assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT).. This substance is not considered to be very persistent and very bioaccumulating (vPvB).

**methacrylic acid:**

Assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT).. This substance is not considered to be very persistent and very bioaccumulating (vPvB).




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**cobalt bis(2-ethylhexanoate):**

Assessment : Remarks: Not applicable

**Hydroquinone:**

Assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT).. This substance is not considered to be very persistent and very bioaccumulating (vPvB).

**12.6 Endocrine disrupting properties**
**Product:**

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**12.7 Other adverse effects**
**Product:**

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
 Toxic to aquatic life.

---

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

Product : The product should not be allowed to enter drains, water courses or the soil.  
 Do not contaminate ponds, waterways or ditches with chemical or used container.  
 Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.  
 Dispose of as unused product.  
 Empty containers should be taken to an approved waste handling site for recycling or disposal.  
 Do not re-use empty containers.  
 Do not burn, or use a cutting torch on, the empty drum.


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**SECTION 14: Transport information**
**SECTION 14: Transport information**
**14.1 UN number**

ADN: UN1866

ADR: UN1866

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: UN1866

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: UN1866

INTERNATIONAL MARITIME DANGEROUS GOODS: UN1866

RID: UN1866

**14.2 UN proper shipping name**

ADN: RESIN SOLUTION

ADR: RESIN SOLUTION

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: Resin solution

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: Resin solution

INTERNATIONAL MARITIME DANGEROUS GOODS: RESIN SOLUTION

RID: RESIN SOLUTION

**14.3 Transport hazard class(es)**

ADN: 3

ADR: 3

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: 3

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: 3

INTERNATIONAL MARITIME DANGEROUS GOODS: 3

RID: 3

**14.4 Packing group**

ADN: III

ADR: III

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: III

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: III

INTERNATIONAL MARITIME DANGEROUS GOODS: III

RID: III

**14.5 Environmental hazards**

ADN: Not applicable

ADR: Not applicable



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**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO:** Not applicable  
**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER:** Not applicable  
**INTERNATIONAL MARITIME DANGEROUS GOODS:** Not applicable  
**RID:** Not applicable

#### 14.6 Special precautions for user

Not applicable

#### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Ship Type: Not applicable  
Hazard code(s): Not applicable  
Pollutant Category: Not applicable

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

---

### SECTION 15: Regulatory information

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

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59) : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EC) No 850/2004 on persistent organic pollutants : Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Conditions of restriction for the following entries should be considered:  
(3)

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.


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P5c	FLAMMABLE LIQUIDS	Quantity 1 5.000 t	Quantity 2 50.000 t
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Other regulations : Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

**The components of this product are reported in the following inventories:**

TCSI	: On the inventory, or in compliance with the inventory
TSCA	On or in compliance with the active portion of the TSCA inventory
AIIC	On the inventory, or in compliance with the inventory
DSL	This product contains one or several components that are not on the Canadian DSL and have annual quantity limits.
ENCS	Not in compliance with the inventory
KECI	Not in compliance with the inventory
PICCS	Not in compliance with the inventory
IECSC	On the inventory, or in compliance with the inventory
NZIoC	Not in compliance with the inventory

**Inventories**

AIIC (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TECI (Thailand), TSCA (USA)


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**15.2 Chemical safety assessment**

No data available

**SECTION 16: Other information**
**Further information**

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**Classification procedure:**

H226	Flammable liquid and vapour.	Based on product data or assessment
H315	Causes skin irritation.	Calculation method
H319	Causes serious eye irritation.	Calculation method
H317	May cause an allergic skin reaction.	Calculation method
H361d	Suspected of damaging the unborn child.	Calculation method
H335	May cause respiratory irritation.	Calculation method
H372	Causes damage to organs through prolonged or repeated exposure.	Calculation method
H412	Harmful to aquatic life with long lasting effects.	Calculation method

**Full text of H-Statements**

H226	Flammable liquid and vapour.
<b>H302</b>	Harmful if swallowed.
<b>H304</b>	May be fatal if swallowed and enters airways.
<b>H311</b>	Toxic in contact with skin.
<b>H314</b>	Causes severe skin burns and eye damage.
<b>H315</b>	Causes skin irritation.
<b>H317</b>	May cause an allergic skin reaction.
<b>H318</b>	Causes serious eye damage.
<b>H319</b>	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
<b>H341</b>	Suspected of causing genetic defects.
<b>H351</b>	Suspected of causing cancer.
<b>H360Fd</b>	May damage fertility. Suspected of damaging the unborn child.
<b>H361</b>	Suspected of damaging fertility or the unborn child.
H361d	Suspected of damaging the unborn child.
<b>H372</b>	Causes damage to organs through prolonged or repeated exposure.
<b>H400</b>	Very toxic to aquatic life.
<b>H410</b>	Very toxic to aquatic life with long lasting effects.
<b>H411</b>	Toxic to aquatic life with long lasting effects.



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**H412** Harmful to aquatic life with long lasting effects.

Other information : The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by INEOS's Environmental Health and Safety Department (+34 93 206 51 20 (in Spain)).

Sources of key data used to compile the Safety Data Sheet  
INEOS internal data including own and sponsored test reports  
The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data sheet :

ACGIH : American Conference of Industrial Hygienists  
BEI : Biological Exposure Index  
CAS : Chemical Abstracts Service (Division of the American Chemical Society).  
CMR : Carcinogenic, Mutagenic or Toxic for Reproduction  
FG : Food grade  
GHS : Globally Harmonized System of Classification and Labeling of Chemicals.  
H-statement : Hazard Statement  
IATA : International Air Transport Association.  
IATA-DGR : Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO : International Civil Aviation Organization  
ICAO-TI (ICAO) : Technical Instructions by the "International Civil Aviation Organization"  
IMDG : International Maritime Code for Dangerous Goods  
ISO : International Organization for Standardization  
logPow : octanol-water partition coefficient  
LCxx : Lethal Concentration, for xx percent of test population  
LDxx : Lethal Dose, for xx percent of test population.  
ICxx : Inhibitory Concentration for xx of a substance  
Ecxx : Effective Concentration of xx  
N.O.S.: Not Otherwise Specified  
OECD : Organization for Economic Co-operation and Development  
OEL : Occupational Exposure Limit

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P-Statement : Precautionary Statement

PBT : Persistent , Bioaccumulative and Toxic

PPE : Personal Protective Equipment

STEL : Short-term exposure limit

STOT : Specific Target Organ Toxicity

TLV : Threshold Limit Value

TWA : Time-weighted average

vPvB : Very Persistent and Very Bioaccumulative

WEL : Workplace Exposure Level

GAM : Water Hazard Class for the Netherlands

ADR : Agreement concerning the International Carriage of Dangerous Goods by Road.

ADNR: Regulation for the Carriage of Dangerous Substances on the Rhine

CLP : Classification, Labelling and Packaging

CSA : Chemical Safety Assessment

CSR : Chemical Safety Report

DNEL : Derived No Effect Level.

EINECS : European Inventory of Existing Commercial Chemical Substances.

ELINCS : European List of Notified Chemical Substances

GV: Exposure limits (DK)

PEC : Predicted Effect Concentration

PEL : Permissible Exposure Limits

PNEC : Predicted No Effect Concentration

REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals

RID : Regulation Concerning the International Transport of Dangerous Goods by Rail

WGK : German Water Hazard Class

ES / EN



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## SAFETY DATA SHEET (1907/2006)

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Version: 1

### PRODUCTS THAT CONTAIN STYENE

#### Scenario 7: FRP manufacturing in an industrial setting, using UP/VE resins and/or formulated resins (gelcoat, bonding paste, putty etc.) (ES7)

This scenario is described by the following combinations of use descriptors. The corresponding contributing scenarios are described in the respective subchapters.

An overall exposure scenario may be described by a number of contributing scenarios which may be subdivided into environmental exposure, worker exposure and consumer exposure.

The following scenarios contribute to the scenario *FRP manufacturing in an industrial setting, using UP/VE resins and/or formulated resins (gelcoat, bonding paste, putty etc.)*.

Table 7. Description of ES 7

<b>Free short title</b>	FRP manufacturing in an industrial setting, using UP/VE resins and/or formulated resins (gelcoat, bonding paste, putty etc.) (ES7)
<b>Systematic title based on use descriptor</b>	ERC 6D; PROC 10, 7, 13, 5, 3, 14, 8A, 15
<b>Name of contributing environmental scenario and corresponding ERC</b>	ERC 6d Production of resins/rubbers
<b>Name(s) of contributing worker scenarios and corresponding PROCs</b>	PROC 10 - Roller application or brushing PROC 7 - Industrial spraying PROC 13 - Treatment of articles by dipping and pouring PROC 5 - Mixing or blending in batch processes (multistage and/or significant contact) PROC 3 - Use in closed batch process (synthesis or formulation) PROC 14 - Production of preparations or articles by tableting, compression, extrusion, pelletisation PROC 8a - Transfer of chemicals from/to vessels/ large containers at non dedicated facilities PROC 15 - Use of laboratory reagents in small scale laboratories
<b>7.1 Contributing Scenario (1) controlling environmental exposure for ERC 6D</b>	
<b>Operational conditions</b>	
Annual European tonnage	8.06E5 to/year
Daily amount used at site	7.61E5 kg/day
Release times per year	300 days/year ( <i>justification: Continuous release</i> )




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Local freshwater dilution factor	10
Local marine water dilution factor	100
Release fraction to air from process	0.102 %
Release fraction to wastewater from process	0.00063 %
Release fraction to soil from process	0.025 %
Fraction tonnage to region	10 %
Fraction used at main source	60 %
STP	yes
River flow rate	18000 m <sup>3</sup> /day
Municipal sewage treatment plant discharge	2000000 L/day
<b>Other modified EUSES values</b>	
Fraction released to agricultural soil (Femis.agric)	0 % ( <i>justification: No direct release to soil (EU Risk Assessment Report on Styrene, European Communities, 2002)</i> )
Fraction released to industrial soil (Femis.ind)	0 % ( <i>justification: No direct release to soil (EU Risk Assessment Report on Styrene, European Communities, 2002)</i> )
Fraction released to waste water (Femis.water)	0.00063 % ( <i>justification: EU Risk Assessment Report, 2002</i> )
Fraction released to air (Femis.air)	0.102 % ( <i>justification: EU Risk Assessment Report, 2002</i> )
Fraction used at main source	60 % ( <i>justification: Value adopted to account for Worstcase European manufacturing site</i> )
Fraction of emission directed to water by local STP (Fstp.water)	0.081 - ( <i>justification: Efficiency STP 97.9%</i> )
<b>7.2 Contributing Scenario (2) controlling industrial worker exposure for PROC 10</b>	
<b>Name of contributing scenario</b>	10 - Roller application or brushing
Scenario subtitle	Rolling, Brushing [CS51]; Roller, spreader, flow application [CS98] All open mould applications where resins is applied by brushing, rolling and other low energy spreading operations; Examples are handlamination, gelcoatbrushing, filament winding
<b>Qualitative Risk Assessment</b>	
General	Use long handled brushes and rollers where possible Ensure the ventilation system is regularly maintained and tested Dispose of empty containers and wastes safely Ensure good work practices are implemented Provide basic employe training to prevent/minimize exposures Use suitable eye protection. Use suitable chemically resistant gloves. Wear suitable coveralls to prevent exposure to the skin
<b>Product characteristics</b>	



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Physical state	liquid
Concentration in substance	100 %
Fugacity / Dustiness	medium
<b>Frequency and duration of use</b>	
Duration of activity	>4 hours (default)
Frequency of use	5 days / week
<b>Human factors not influenced by risk management</b>	
Exposed skin surface	960 cm <sup>2</sup>
<b>Other given operational conditions affecting workers exposure</b>	
Location	indoors
Ventilation	enhanced (70%)
Domain	industrial
<b>Technical conditions and measures to control dispersion and exposure</b>	
Local exhaust ventilation	no
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	no
<b>7.3 Contributing Scenario (3) controlling industrial worker exposure for PROC 7</b>	
<b>Name of contributing scenario</b>	7 - Industrial spraying
Scenario subtitle	Spraying [CS10]; Spraying (automatic/robotic) [CS97] All open mould applications where resins is applied by automated spraying or by robot in a spray cabin without direct worker involvement. Examples are spray lamination, gelcoat spraying and "chop-hoop" filament winding
<b>Qualitative Risk Assessment</b>	
General	Ensure the ventilation system is regularly maintained and tested Dispose of empty containers and wastes safely Ensure good work practices are implemented Provide basic employe training to prevent/minimize exposures Wear suitable coveralls to prevent exposure to the skin Use suitable eye protection. Wear suitable face shield Wear chemically resistant gloves in combination with intensive management supervision control.
<b>Product characteristics</b>	
Physical state	liquid
Concentration in substance	100 %
Fugacity / Dustiness	medium
<b>Frequency and duration of use</b>	


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Duration of activity	>4 hours (default)
Frequency of use	5 days / week
<b>Human factors not influenced by risk management</b>	
Exposed skin surface	1,500 cm <sup>2</sup>
<b>Other given operational conditions affecting workers exposure</b>	
Location	indoors
Domain	industrial
<b>Technical conditions and measures to control dispersion and exposure</b>	
Local exhaust ventilation	no
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	no
Carry out in a vented booth or extracted enclosure	inhalation: 95 % ( <i>justification: Carry out in a vented booth or extracted enclosure</i> )
<b>7.4 Contributing Scenario (4) controlling industrial worker exposure for PROC 7</b>	
<b>Name of contributing scenario</b>	7 - Industrial spraying
Scenario subtitle	Spraying [CS10]; Spraying (manually) [CS97] All open mould applications where resins is applied by manual spraying in an open work environment. Examples are spray lamination, gelcoat spraying and "chop-hoop" filament winding
<b>Qualitative Risk Assessment</b>	
General	Carefully pour from containers Use long handled tools where possible Ensure good work practices are implemented Provide basic employe training to prevent/minimize exposures Use suitable eye protection. Wear suitable face shield Wear suitable coveralls to prevent exposure to the skin Wear chemically resistant gloves in combination with intensive management supervision control.
<b>Product characteristics</b>	
Physical state	liquid
Concentration in substance	100 %
Fugacity / Dustiness	medium
<b>Frequency and duration of use</b>	
Duration of activity	>4 hours (default)
Frequency of use	5 days / week
<b>Human factors not influenced by risk management</b>	
Exposed skin surface	1,500 cm <sup>2</sup>

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<b>Other given operational conditions affecting workers exposure</b>	
Location	indoors
Ventilation	good (30%)
Domain	industrial
<b>Technical conditions and measures to control dispersion and exposure</b>	
Local exhaust ventilation	no
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	90 %
<b>7.5 Contributing Scenario (5) controlling industrial worker exposure for PROC 10</b>	
<b>Name of contributing scenario</b>	10 - Roller application or brushing
Scenario subtitle	Dipping, immersion and pouring [CS4]; Rolling, Brushing [CS51]; Roller, spreader, flow application [CS98] Application of repair putties; Application of bonding pastes / adhesives.
<b>Qualitative Risk Assessment</b>	
General	Ensure good work practices are implemented Provide basic employe training to prevent/minimize exposures Use suitable eye protection. Use suitable chemically resistant gloves. Wear suitable coveralls to prevent exposure to the skin.
<b>Product characteristics</b>	
Physical state	liquid
Concentration in substance	5-25%
Fugacity / Dustiness	medium
<b>Frequency and duration of use</b>	
Duration of activity	>4 hours (default)
Frequency of use	5 days / week
<b>Human factors not influenced by risk management</b>	
Exposed skin surface	960 cm <sup>2</sup>
<b>Other given operational conditions affecting workers exposure</b>	
Location	indoors
Ventilation	enhanced (70%)
Domain	industrial
<b>Technical conditions and measures to control dispersion and exposure</b>	
Local exhaust ventilation	no
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
Protective gloves	Gloves APF 5 80 %


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Respiratory protection	no
<b>7.6 Contributing Scenario (6) controlling industrial worker exposure for PROC 13</b>	
<b>Name of contributing scenario</b>	13 - Treatment of articles by dipping and pouring
Scenario subtitle	Dipping, immersion and pouring [CS4]; Continuous process [CS54]. Continuous processes with open impregnation steps, such as pultrusion with open impregnation baths and (semi-) continuous production of flat laminates
<b>Qualitative Risk Assessment</b>	
General	Ensure good work practices are implemented Provide basic employe training to prevent/minimize exposures Use suitable eye protection. Use suitable chemically resistant gloves. Wear suitable coveralls to prevent exposure to the skin.
<b>Product characteristics</b>	
Physical state	liquid
Concentration in substance	100 %
Fugacity / Dustiness	medium
<b>Frequency and duration of use</b>	
Duration of activity	>4 hours (default)
Frequency of use	5 days / week
<b>Human factors not influenced by risk management</b>	
Exposed skin surface	480 cm <sup>2</sup>
<b>Other given operational conditions affecting workers exposure</b>	
Location	indoors
Domain	industrial
<b>Technical conditions and measures to control dispersion and exposure</b>	
Local exhaust ventilation	yes (inhalation 90 %)
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
Protective gloves	No
Respiratory protection	no
<b>7.7 Contributing Scenario (7) controlling industrial worker exposure for PROC 5</b>	
<b>Name of contributing scenario</b>	5 - Mixing or blending in batch processes (multistage and/or significant contact)
Scenario subtitle	Casting operations [CS32]; Mixing operations (open systems) [CS30]. Casting and mixing operations in (semi-) open containers. Examples are centrifugal casting, casting of polymer concrete and artificial marble and the manufacturing of SMC / BMC/ TMC, etc
<b>Qualitative Risk Assessment</b>	



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General	Ensure good work practices are implemented Provide basic employe training to prevent/minimize exposures Use suitable eye protection. Use suitable chemically resistant gloves. Wear suitable coveralls to prevent exposure to the skin.
<b>Product characteristics</b>	
Physical state	liquid
Concentration in substance	5-25%
Fugacity / Dustiness	medium
<b>Frequency and duration of use</b>	
Duration of activity	>4 hours (default)
Frequency of use	5 days / week
<b>Human factors not influenced by risk management</b>	
Exposed skin surface	480 cm <sup>2</sup>
<b>Other given operational conditions affecting workers exposure</b>	
Location	indoors
Domain	industrial
<b>Technical conditions and measures to control dispersion and exposure</b>	
Local exhaust ventilation	yes (inhalation 90 %)
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	no
<b>7.8 Contributing Scenario (8) controlling industrial worker exposure for PROC 5</b>	
<b>Name of contributing scenario</b>	5 - Mixing or blending in batch processes (multistage and/or significant contact)
Scenario subtitle	General exposures (closed systems) [CS15]. Mixing liquid and solid components / into final formulated resin in blending vessel; Examples are gelcoat blending and compounding, formulation of repair putties, bonding pastes, chemical anchoring, etc
<b>Qualitative Risk Assessment</b>	
General	Put lids on containers immediately after use. Ensure good work practices are implemented Provide basic employe training to prevent/minimize exposures Use suitable eye protection. Use suitable chemically resistant gloves. Wear suitable coveralls to prevent exposure to the skin.
<b>Product characteristics</b>	
Physical state	liquid
Concentration in substance	100 %


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Fugacity / Dustiness	medium
<b>Frequency and duration of use</b>	
Duration of activity	>4 hours (default)
Frequency of use	5 days / week
<b>Human factors not influenced by risk management</b>	
Exposed skin surface	480 cm <sup>2</sup>
<b>Other given operational conditions affecting workers exposure</b>	
Location	indoors
Ventilation	enhanced (70%)
Domain	industrial
<b>Technical conditions and measures to control dispersion and exposure</b>	
Local exhaust ventilation	no
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	no
<b>7.9 Contributing Scenario (9) controlling industrial worker exposure for PROC 3</b>	
<b>Name of contributing scenario</b>	3 - Use in closed batch process (synthesis or formulation)
Scenario subtitle	Material transfers [CS3]; Automated process with (semi) closed systems [CS93]; Use in contained batch processes [CS37]. Resin injection and transfer processes, such as vacuum infusion, RTM, impregnation of sewer relining sleeves
<b>Qualitative Risk Assessment</b>	
General	Put lids on containers immediately after use. Ensure good work practices are implemented Provide basic employe training to prevent/minimize exposures In case of potential exposure: Use suitable eye protection. Use suitable chemically resistant gloves.
<b>Product characteristics</b>	
Physical state	liquid
Concentration in substance	100 %
Fugacity / Dustiness	medium
<b>Frequency and duration of use</b>	
Duration of activity	>4 hours (default)
Frequency of use	5 days / week
<b>Human factors not influenced by risk management</b>	
Exposed skin surface	240 cm <sup>2</sup>
<b>Other given operational conditions affecting workers exposure</b>	

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Location	indoors
Ventilation	good (30%)
Domain	industrial
<b>Technical conditions and measures to control dispersion and exposure</b>	
Local exhaust ventilation	no
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	no
<b>7.10 Contributing Scenario (10) controlling industrial worker exposure for PROC 14</b>	
<b>Name of contributing scenario</b>	14 - Production of preparations or articles by tableting, compression, extrusion, pelletisation
Scenario subtitle	Material transfers [CS3]; Production or preparation or articles by tableting, compression, extrusion or pelletisation [CS100]; Treatment by heating [CS129]; Batch processes at elevated temperatures [CS136]. Processes where curing of UP / VE resins takes place at high temperature. Examples are pultrusion with injection dies and processing of SMC / BMC / TMC, etc
<b>Qualitative Risk Assessment</b>	
General	Ensure good work practices are implemented Provide basic employe training to prevent/minimize exposures In case of potential exposure: Use suitable eye protection. Use suitable chemically resistant gloves.
<b>Product characteristics</b>	
Physical state	liquid
Concentration in substance	5-25%
Fugacity / Dustiness	medium
<b>Frequency and duration of use</b>	
Duration of activity	>4 hours (default)
Frequency of use	5 days / week
<b>Human factors not influenced by risk management</b>	
Exposed skin surface	480 cm <sup>2</sup>
<b>Other given operational conditions affecting workers exposure</b>	
Location	indoors
Ventilation	enhanced (70%)
Domain	industrial
<b>Technical conditions and measures to control dispersion and exposure</b>	
Local exhaust ventilation	no
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	no





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### 7.11 Contributing Scenario (11) controlling industrial worker exposure for PROC 3

<b>Name of contributing scenario</b>	3 - Use in closed batch process (synthesis or formulation)
Scenario subtitle	Material transfers [CS3]. Product delivery/storage - delivery of bulk and packaged products - outdoor / indoor
<b>Qualitative Risk Assessment</b>	
General	Ensure good work practices are implemented Provide basic employe training to prevent/minimize exposures In case of potential exposure: Use suitable eye protection. Use suitable chemically resistant gloves.
<b>Product characteristics</b>	
Physical state	liquid
Concentration in substance	100 %
Fugacity / Dustiness	medium
<b>Frequency and duration of use</b>	
Duration of activity	>4 hours (default)
Frequency of use	5 days / week
<b>Human factors not influenced by risk management</b>	
Exposed skin surface	240 cm <sup>2</sup>
<b>Other given operational conditions affecting workers exposure</b>	
Location	indoors
Ventilation	good (30%)
Domain	industrial
<b>Technical conditions and measures to control dispersion and exposure</b>	
Local exhaust ventilation	no
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	no

### 7.12 Contributing Scenario (12) controlling industrial worker exposure for PROC 5

<b>Name of contributing scenario</b>	5 - Mixing or blending in batch processes (multistage and/or significant contact)
Scenario subtitle	Drum/batch transfers [CS8]; Pouring from small containers [CS9]; Transfer from/pouring from containers [CS22]; Mixing operations (open systems) [CS30]. Loading of mixing equipment; Preparation of material for application; (liquid products) - batch, indoor
<b>Qualitative Risk Assessment</b>	
General	Put lids on containers immediately after use. Ensure good work practices are implemented Provide basic employe training to prevent/minimize exposures Use suitable eye protection.


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	Use suitable chemically resistant gloves. Wear suitable coveralls to prevent exposure to the skin.
<b>Product characteristics</b>	
Physical state	liquid
Concentration in substance	100 %
Fugacity / Dustiness	medium
<b>Frequency and duration of use</b>	
Duration of activity	>4 hours (default)
Frequency of use	5 days / week
<b>Human factors not influenced by risk management</b>	
Exposed skin surface	480 cm <sup>2</sup>
<b>Other given operational conditions affecting workers exposure</b>	
Location	indoors
Domain	industrial
<b>Technical conditions and measures to control dispersion and exposure</b>	
Local exhaust ventilation	yes (inhalation 90 %)
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	no
<b>7.13 Contributing Scenario (13) controlling industrial worker exposure for PROC 8A</b>	
<b>Name of contributing scenario</b>	8a - Transfer of chemicals from/to vessels/ large containers at non dedicated facilities
Scenario subtitle	Equipment maintenance [CS5]; Maintenance of small items [CS18]. Equipment cleaning and maintenance, open indoor
<b>Qualitative Risk Assessment</b>	
General	Ensure good work practices are implemented Provide basic employe training to prevent/minimize exposures Use suitable eye protection. Use suitable chemically resistant gloves. Wear suitable coveralls to prevent exposure to the skin.
<b>Product characteristics</b>	
Physical state	liquid
Concentration in substance	100 %
Fugacity / Dustiness	medium
<b>Frequency and duration of use</b>	
Duration of activity	>4 hours (default)
Frequency of use	5 days / week
<b>Human factors not influenced by risk management</b>	


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Exposed skin surface	960 cm <sup>2</sup>
<b>Other given operational conditions affecting workers exposure</b>	
Location	indoors
Domain	industrial
<b>Technical conditions and measures to control dispersion and exposure</b>	
Local exhaust ventilation	no
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	no
Local exhaust ventilation	inhalation: 70 % ( <i>justification: Use local exhaust ventilation with adequate effectiveness</i> )
<b>7.14 Contributing Scenario (14) controlling industrial worker exposure for PROC 15</b>	
<b>Name of contributing scenario</b>	15 - Use of laboratory reagents in small scale laboratories
Scenario subtitle	Laboratory activities [CS36]. Quality control work of samples from blending vessel; R&D work including handling of samples from 1 kg to 1 drum
<b>Qualitative Risk Assessment</b>	
General	Ensure good work practices are implemented Provide basic employe training to prevent/minimize exposures In case of potential exposure: Use suitable eye protection. Use suitable chemically resistant gloves.
<b>Product characteristics</b>	
Physical state	liquid
Concentration in substance	100 %
Fugacity / Dustiness	medium
<b>Frequency and duration of use</b>	
Duration of activity	>4 hours (default)
Frequency of use	5 days / week
<b>Human factors not influenced by risk management</b>	
Exposed skin surface	240 cm <sup>2</sup>
<b>Other given operational conditions affecting workers exposure</b>	
Location	indoors
Domain	industrial
<b>Technical conditions and measures to control dispersion and exposure</b>	
Local exhaust ventilation	no
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	no

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<b>7.15 Contributing Scenario (15) controlling industrial worker exposure for PROC 8A</b>	
<b>Name of contributing scenario</b>	8a - Transfer of chemicals from/to vessels/ large containers at non dedicated facilities
Scenario subtitle	Disposal of wastes [CS28]. Handling of non cured waste; Waste management / handling and storage of waste for removal for off-site treatment or for on-site treatment like incineration and/or biological waste water treatment
<b>Qualitative Risk Assessment</b>	
General	Put lids on containers immediately after use. Contain and dispose of waste according to local regulations Ensure good work practices are implemented Provide basic employe training to prevent/minimize exposures Use suitable eye protection. Use suitable chemically resistant gloves. Wear suitable coveralls to prevent exposure to the skin.
<b>Product characteristics</b>	
Physical state	liquid
Concentration in substance	100 %
Fugacity / Dustiness	medium
<b>Frequency and duration of use</b>	
Duration of activity	>4 hours (default)
Frequency of use	5 days / week
<b>Human factors not influenced by risk management</b>	
Exposed skin surface	960 cm <sup>2</sup>
<b>Other given operational conditions affecting workers exposure</b>	
Location	indoors
Domain	industrial
<b>Technical conditions and measures to control dispersion and exposure</b>	
Local exhaust ventilation	yes (inhalation 90 %)
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	no

### Scenario 8: FRP manufacturing in a professional setting, using UP/VE resins and/or formulated resins (gelcoat, bonding paste, putty etc.) (ES8)

This scenario is described by the following combinations of use descriptors. The corresponding contributing scenarios are described in the respective subchapters.

An overall exposure scenario may be described by a number of contributing scenarios which may be subdivided into environmental exposure, worker exposure and consumer exposure.

The following scenarios contribute to the scenario *FRP manufacturing in a professional setting, using UP/VE resins and/or formulated resins (gelcoat, bonding paste, putty etc.)*.


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Table 8. Description of ES 8

<b>Free short title</b>	FRP manufacturing in a professional setting, using UP/VE resins and/or formulated resins (gelcoat, bonding paste, putty etc.) (ES8)
<b>Systematic title based on use descriptor</b>	ERC 8E; PROC 10, 11, 5, 4, 3, 8A
<b>Name of contributing environmental scenario and corresponding ERC</b>	ERC 8e Wide dispersive outdoor use of reactive substances in open systems
<b>Name(s) of contributing worker scenarios and corresponding PROCs</b>	PROC 10 - Roller application or brushing PROC 11 - Non industrial spraying PROC 5 - Mixing or blending in batch processes (multistage and/or significant contact) PROC 4 - Use in batch and other process (synthesis) where opportunity for exposure arises PROC 3 - Use in closed batch process (synthesis or formulation) PROC 8a - Transfer of chemicals from/to vessels/ large containers at non dedicated facilities

**8.1 Contributing Scenario (1) controlling environmental exposure for ERC 8E**

<b>Operational conditions</b>	
Annual European tonnage	8.42E6 to/year
Daily amount used at site	4.83E5 kg/day
Release times per year	300 days/year ( <i>justification: Continuous production</i> )
Local freshwater dilution factor	10
Local marine water dilution factor	100
Release fraction to air from process	0.102 %
Release fraction to wastewater from process	0.000012 %
Release fraction to soil from process	0 %
Fraction tonnage to region	10 %
Fraction used at main source	60 %
STP	yes
River flow rate	18000 m <sup>3</sup> /day
Municipal sewage treatment plant discharge	2000000 L/day
<b>Other modified EUSES values</b>	
Fraction released to agricultural soil (Femis.agric)	0 % ( <i>justification: No direct release to soil (EU Risk Assessment Report on Styrene, European Communities, 2002)</i> )
Fraction released to industrial soil (Femis.ind)	0 % ( <i>justification: No direct release to soil (EU Risk Assessment Report on Styrene, European Communities, 2002)</i> )
Fraction released to waste water (Femis.water)	0.000012 % ( <i>justification: EU Risk Assessment Report, 2002</i> )

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Fraction released to air (Femis.air)	0.102 % (justification: EU Risk Assessment Report, 2002)
Fraction used at main source	60 % (justification: Value adopted to account for worst-case European manufacturing site )
Fraction of emission directed to water by local STP (Fstp.water)	0.081 - (justification: Efficiency STP 97.9%)
<b>8.2 Contributing Scenario (2) controlling professional worker exposure for PROC 10</b>	
<b>Name of contributing scenario</b>	10 - Roller application or brushing
Scenario subtitle	Rolling, Brushing [CS51]; Roller, spreader, flow application [CS98] All open mould applications where resins is applied by brushing, rolling and other low energy spreading operations; Examples are handlamination, gelcoatbrushing, semi-continuous production of flat panels and laminates
<b>Qualitative Risk Assessment</b>	
General	Use long handled brushes and rollers where possible Ensure good work practices are implemented Provide basic employe training to prevent/minimize exposures Use suitable eye protection. Use suitable chemically resistant gloves. Wear suitable coveralls to prevent exposure to the skin.
<b>Product characteristics</b>	
Physical state	liquid
Concentration in substance	100 %
Fugacity / Dustiness	medium
<b>Frequency and duration of use</b>	
Duration of activity	>4 hours (default)
Frequency of use	5 days / week
<b>Human factors not influenced by risk management</b>	
Exposed skin surface	960 cm <sup>2</sup>
<b>Other given operational conditions affecting workers exposure</b>	
Location	indoors
Ventilation	good (30%)
Domain	professional
<b>Technical conditions and measures to control dispersion and exposure</b>	
Local exhaust ventilation	no
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	90 %
<b>8.3 Contributing Scenario (3) controlling professional worker exposure for PROC 11</b>	
<b>Name of contributing scenario</b>	11 - Non industrial spraying
Scenario subtitle	Spraying [CS10]; Spraying (manually) [CS97] All open mould


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	applications where resins is applied by manual spraying in an open work environment. Examples are spray lamination, gelcoat spraying and "chop-hoop" filament winding
<b>Qualitative Risk Assessment</b>	
General	Keep people not involved in the activity, away from the operation Ensure good work practices are implemented Provide basic employe training to prevent/minimize exposures Use suitable eye protection. Wear suitable face shield Wear suitable coveralls to prevent exposure to the skin. Wear chemically resistant gloves in combination with intensive manage management supervision control.
<b>Product characteristics</b>	
Physical state	liquid
Concentration in substance	100 %
Fugacity / Dustiness	medium
<b>Frequency and duration of use</b>	
Duration of activity	1 - 4 hours
Frequency of use	5 days / week
<b>Human factors not influenced by risk management</b>	
Exposed skin surface	1,500 cm <sup>2</sup>
<b>Other given operational conditions affecting workers exposure</b>	
Location	indoors
Ventilation	good (30%)
Domain	professional
<b>Technical conditions and measures to control dispersion and exposure</b>	
Local exhaust ventilation	no
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	95 %

**8.4 Contributing Scenario (4) controlling professional worker exposure for PROC 10**

<b>Name of contributing scenario</b>	10 - Roller application or brushing
Scenario subtitle	Dipping, immersion and pouring [CS4]; Rolling, Brushing [CS51]; Roller, spreader, flow application [CS98] Application of repair putties; Application of bonding pastes / adhesives.
<b>Qualitative Risk Assessment</b>	


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General	Ensure good work practices are implemented Provide basic employe training to prevent/minimize exposures Use suitable eye protection. Use suitable chemically resistant gloves. Wear suitable coveralls to prevent exposure to the skin.
<b>Product characteristics</b>	
Physical state	liquid
Concentration in substance	5-25%
Fugacity / Dustiness	medium
<b>Frequency and duration of use</b>	
Duration of activity	>4 hours (default)
Frequency of use	5 days / week
<b>Human factors not influenced by risk management</b>	
Exposed skin surface	960 cm <sup>2</sup>
<b>Other given operational conditions affecting workers exposure</b>	
Location	indoors
Ventilation	good (30%)
Domain	professional
<b>Technical conditions and measures to control dispersion and exposure</b>	
Local exhaust ventilation	no
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	90 %
<b>8.5 Contributing Scenario (5) controlling professional worker exposure for PROC 10</b>	
<b>Name of contributing scenario</b>	10 - Roller application or brushing
Scenario subtitle	Dipping, immersion and pouring [CS4]; Rolling, Brushing [CS51]; Roller, spreader, flow application [CS98] Application of floorings, mastics, coatings, castings




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<b>Qualitative Risk Assessment</b>	
General	Ensure good work practices are implemented Provide basic employe training to prevent/minimize exposures Use suitable eye protection. Use suitable chemically resistant gloves. Wear suitable coveralls to prevent exposure to the skin.
<b>Product characteristics</b>	
Physical state	liquid
Concentration in substance	100 %
Fugacity / Dustiness	medium
<b>Frequency and duration of use</b>	
Duration of activity	>4 hours (default)
Frequency of use	5 days / week
<b>Human factors not influenced by risk management</b>	
Exposed skin surface	960 cm <sup>2</sup>
<b>Other given operational conditions affecting workers exposure</b>	
Location	indoors
Ventilation	good (30%)
Domain	professional
<b>Technical conditions and measures to control dispersion and exposure</b>	
Local exhaust ventilation	no
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	90 %
<b>8.6 Contributing Scenario (6) controlling professional worker exposure for PROC 5</b>	
<b>Name of contributing scenario</b>	5 - Mixing or blending in batch processes (multistage and/or significant contact)



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Scenario subtitle	Material transfers [CS3]; Pouring from small containers [CS9]. Preparation of material for application (liquids) - transfer of material from one container to another; Formulating / blending resins, gelcoats, bonding pastes, putties etc. in blending vessels
<b>Qualitative Risk Assessment</b>	
General	Use drum pumps. Put lids on containers immediately after use. Ensure good work practices are implemented Provide basic employe training to prevent/minimize exposures Use suitable eye protection. Use suitable chemically resistant gloves. Wear suitable coveralls to prevent exposure to the skin.
<b>Product characteristics</b>	
Physical state	liquid
Concentration in substance	100 %
Fugacity / Dustiness	medium
<b>Frequency and duration of use</b>	
Duration of activity	>4 hours (default)
Frequency of use	5 days / week
<b>Human factors not influenced by risk management</b>	
Exposed skin surface	480 cm <sup>2</sup>
<b>Other given operational conditions affecting workers exposure</b>	
Location	indoors
Ventilation	good (30%)
Domain	professional
<b>Technical conditions and measures to control dispersion and exposure</b>	
Local exhaust ventilation	no
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	90 %



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### 8.7 Contributing Scenario (7) controlling professional worker exposure for PROC 4

<b>Name of contributing scenario</b>	4 - Use in batch and other process (synthesis) where opportunity for exposure arises
Scenario subtitle	Use in contained batch processes [CS37]. Sewer relining operation
<b>Qualitative Risk Assessment</b>	
General	Ensure good work practices are implemented Provide basic employe training to prevent/minimize exposures Use suitable eye protection. Use suitable chemically resistant gloves. Wear suitable coveralls to prevent exposure to the skin.
<b>Product characteristics</b>	
Physical state	liquid
Concentration in substance	100 %
Fugacity / Dustiness	medium
<b>Frequency and duration of use</b>	
Duration of activity	>4 hours (default)
Frequency of use	5 days / week
<b>Human factors not influenced by risk management</b>	
Exposed skin surface	480 cm <sup>2</sup>
<b>Other given operational conditions affecting workers exposure</b>	
Location	outdoors (30%)
Domain	professional
<b>Technical conditions and measures to control dispersion and exposure</b>	
Local exhaust ventilation	no
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	90 %
<b>8.8 Contributing Scenario (8) controlling professional worker exposure for PROC 3</b>	


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<b>Name of contributing scenario</b>	3 - Use in closed batch process (synthesis or formulation)
Scenario subtitle	Use in contained batch processes [CS37]. Application of chemical anchoring
<b>Qualitative Risk Assessment</b>	
General	Ensure good work practices are implemented Provide basic employe training to prevent/minimize exposures In case of potential exposure: Use suitable eye protection. Use suitable chemically resistant gloves.
<b>Product characteristics</b>	
Physical state	liquid
Concentration in substance	5-25%
Fugacity / Dustiness	medium
<b>Frequency and duration of use</b>	
Duration of activity	>4 hours (default)
Frequency of use	5 days / week
<b>Human factors not influenced by risk management</b>	
Exposed skin surface	240 cm <sup>2</sup>
<b>Other given operational conditions affecting workers exposure</b>	
Location	outdoors (30%)
Domain	professional
<b>Technical conditions and measures to control dispersion and exposure</b>	
Local exhaust ventilation	no
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	no
<b>8.9 Contributing Scenario (9) controlling professional worker exposure for PROC 8A</b>	


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<b>Name of contributing scenario</b>	8a - Transfer of chemicals from/to vessels/ large containers at non dedicated facilities
Scenario subtitle	Equipment maintenance [CS5]; Maintenance of small items [CS18]. Equipment cleaning and maintenance, open indoor
<b>Qualitative Risk Assessment</b>	
General	Ensure good work practices are implemented Provide basic employe training to prevent/minimize exposures Use suitable eye protection. Use suitable chemically resistant gloves. Wear suitable coveralls to prevent exposure to the skin.
<b>Product characteristics</b>	
Physical state	liquid
Concentration in substance	100 %
Fugacity / Dustiness	medium
<b>Frequency and duration of use</b>	
Duration of activity	15 mins to 1 hour
Frequency of use	5 days / week
<b>Human factors not influenced by risk management</b>	
Exposed skin surface	960 cm <sup>2</sup>
<b>Other given operational conditions affecting workers exposure</b>	
Location	indoors
Ventilation	good (30%)
Domain	professional
<b>Technical conditions and measures to control dispersion and exposure</b>	
Local exhaust ventilation	no
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	no
<b>8.10 Contributing Scenario (10) controlling professional worker exposure for PROC 8A</b>	


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<b>Name of contributing scenario</b>	8a - Transfer of chemicals from/to vessels/ large containers at non dedicated facilities
Scenario subtitle	Disposal of wastes [CS28]. Handling of non cured waste; Waste management / handling and storage of waste for removal for off-site treatment or for on-site treatment like incineration and/or biological waste water treatment
<b>Qualitative Risk Assessment</b>	
General	Dispose of empty containers and wastes safely Ensure good work practices are implemented Provide basic employe training to prevent/minimize exposures Use suitable eye protection. Use suitable chemically resistant gloves. Wear suitable coveralls to prevent exposure to the skin.
<b>Product characteristics</b>	
Physical state	liquid
Concentration in substance	100 %
Fugacity / Dustiness	medium
<b>Frequency and duration of use</b>	
Duration of activity	15 mins to 1 hour
Frequency of use	5 days / week
<b>Human factors not influenced by risk management</b>	
Exposed skin surface	960 cm <sup>2</sup>
<b>Other given operational conditions affecting workers exposure</b>	
Location	indoors
Ventilation	good (30%)
Domain	professional
<b>Technical conditions and measures to control dispersion and exposure</b>	
Local exhaust ventilation	no
<b>Conditions and measures related to personal protection, hygiene and health evaluation</b>	
Protective gloves	Gloves APF 5 80 %
Respiratory protection	no

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