



<b>SAFETY DATA SHEET</b>		Revision Date: 17.12.2024
		Print Date: 19.12.2024
		SDS Number: R0401425
<b>GPX Premium Polyester Laminating Resin</b>		Version: 6.0

The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019 (SI 2019 No. 758) as amended - SDSGHS\_GB

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

### 1.1 Product identifier

Trade name : GPX Premium Polyester Laminating Resin  
 UFI : Y5FV-SJD4-Y00Q-91ST

### 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

Easy Composites Ltd  
 Unit 39 Park Hall Business Village  
 Stoke on Trent, Staffordshire  
 ST3 5XA. UK.

safety@easycomposites.com

### 1.4 Emergency telephone number

+44(0) 1782 454499 (office hours only)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification GB-CLP Regulation, UK SI 2019/720 and UK SI 2020/1567

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.
Reproductive toxicity, Category 2	H361d: Suspected of damaging the unborn child.



<b>SAFETY DATA SHEET</b>	Revision Date: 17.12.2024
	Print Date: 19.12.2024
	SDS Number: R0401425
<b>GPX Premium Polyester Laminating Resin</b>	Version: 6.0

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 GB-CLP Regulation, UK SI 2019/720 and UK SI 2020/1567

Hazard pictograms :



Signal word : Danger

Hazard statements	:	<p>H226 Flammable liquid and vapour.</p> <p>H315 Causes skin irritation.</p> <p>H319 Causes serious eye irritation.</p> <p>H335 May cause respiratory irritation.</p> <p>H361d Suspected of damaging the unborn child.</p> <p>H372 Causes damage to organs (hearing organs) through prolonged or repeated exposure.</p> <p>H412 Harmful to aquatic life with long lasting effects.</p>
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Precautionary statements	:	<p><b>Prevention:</b></p> <p>P201 Obtain special instructions before use.</p> <p>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</p> <p>P260 Do not breathe mist or vapours.</p> <p>P264 Wash skin thoroughly after handling.</p> <p>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.</p> <p><b>Response:</b></p> <p>P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.</p>
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Hazardous components which must be listed on the label:



<b>SAFETY DATA SHEET</b>	Revision Date: 17.12.2024
	Print Date: 19.12.2024
	SDS Number: R0401425
<b>GPX Premium Polyester Laminating Resin</b>	Version: 6.0

Styrene  
 Precautionary statements : Keep dust/air mixtures away from ignition sources.

#### Additional Labelling:

EUH208 Contains cobalt bis(2-ethylhexanoate). May produce an allergic reaction.

#### 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.

#### Additional advice

No information available.

### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

Chemical nature : Static Accumulator

#### 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	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) Asp. Tox. 1; H304 Aquatic Chronic 3; H412	>= 30 - < 40
N,N-diethylaniline	91-66-7 202-088-8 612-054-00-8	Acute Tox. 3; H301 Acute Tox. 3; H331 Acute Tox. 3; H311 STOT RE 2; H373 (female reproductive organs) Aquatic Chronic 2; H411	>= 0,1 - < 0,25



<b>SAFETY DATA SHEET</b>	Revision Date: 17.12.2024
	Print Date: 19.12.2024
	SDS Number: R0401425
<b>GPX Premium Polyester Laminating Resin</b>	Version: 6.0

cobalt bis(2-ethylhexanoate)	136-52-7 205-250-6 607-230-00-6	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	$\geq 0,025 - < 0,1$
Hydroquinone	123-31-9 204-617-8 604-005-00-4	Acute Tox. 4; H302 Eye Dam. 1; H318 Skin Sens. 1; H317 Muta. 2; H341 Carc. 2; H351 Aquatic Acute 1; H400 Aquatic Chronic 1; H410  M-Factor (Acute aquatic toxicity): 1010 M-Factor (Chronic aquatic toxicity): 1	$\geq 0,0025 - < 0,025$
Fatty acids, C9-13-neo-, copper salts	91031-79-7 292-985-0	Acute Tox. 4; H302 Aquatic Acute 1; H400 Aquatic Chronic 1; H410  M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 1	$\geq 0,0025 - < 0,025$

For explanation of abbreviations see section 16.

This substance/ mixture contains nanoforms



<b>SAFETY DATA SHEET</b>	Revision Date: 17.12.2024
	Print Date: 19.12.2024
	SDS Number: R0401425
<b>GPX Premium Polyester Laminating Resin</b>	Version: 6.0

## 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.  
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.  
Causes serious eye irritation.  
May cause respiratory irritation.



<b>SAFETY DATA SHEET</b>		Revision Date: 17.12.2024
		Print Date: 19.12.2024
		SDS Number: R0401425
<b>GPX Premium Polyester Laminating Resin</b>		Version: 6.0

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.

## 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 : Organic dusts at sufficient concentration can form explosive mixtures in air.  
Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite 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.



<b>SAFETY DATA SHEET</b>		Revision Date: 17.12.2024
		Print Date: 19.12.2024
		SDS Number: R0401425
<b>GPX Premium Polyester Laminating Resin</b>		Version: 6.0

- 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.

## 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 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.



<b>SAFETY DATA SHEET</b>	Revision Date: 17.12.2024
	Print Date: 19.12.2024
	SDS Number: R0401425
<b>GPX Premium Polyester Laminating Resin</b>	Version: 6.0

## 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.  
 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.  
 Secondary operations, such as grinding and sanding, may produce dust.  
 Maintain good housekeeping. Do not permit dust layers to accumulate, for example, on floors, ledges, and equipment, in order to avoid any potential for dust explosion hazards.
- 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.

### 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)

**SAFETY DATA SHEET**

Revision Date: 17.12.2024

Print Date: 19.12.2024

SDS Number: R0401425

Version: 6.0

**GPX Premium Polyester Laminating Resin**


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	TWA	100 ppm 430 mg/m <sup>3</sup>	GB EH40
		STEL	250 ppm 1.080 mg/m <sup>3</sup>	GB EH40
cobalt bis(2-ethylhexanoate)	136-52-7	TWA	0,1 mg/m <sup>3</sup> (Cobalt)	GB EH40
Hydroquinone	123-31-9	TWA	0,5 mg/m <sup>3</sup>	GB EH40
Fatty acids, C9-13-neo-, copper salts	91031-79-7	TWA (Dusts and mists)	1 mg/m <sup>3</sup> Dusts and mists (Copper)	GB EH40
		STEL (Dusts and mists)	2 mg/m <sup>3</sup> Dusts and mists (Copper)	GB EH40

**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

		Page: 10
SAFETY DATA SHEET		Revision Date: 17.12.2024
		Print Date: 19.12.2024
		SDS Number: R0401425
GPX Premium Polyester Laminating Resin		Version: 6.0

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  
 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.

Provide appropriate exhaust ventilation at places where dust is formed.

		Page: 11
<b>SAFETY DATA SHEET</b>		Revision Date: 17.12.2024
		Print Date: 19.12.2024
		SDS Number: R0401425
<b>GPX Premium Polyester Laminating Resin</b>		Version: 6.0

#### Personal protective equipment

Eye protection	: Wear chemical splash goggles when there is the potential for exposure of the eyes to liquid, vapor or mist.
Hand protection	
Material	: Laminate (Barrier© or Silvershield©)
Break through time	: 480 min
Glove thickness	: > 0,5 mm
Remarks	<p>: 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 degradation or chemical breakthrough.</p> <p>The suitability for a specific workplace should be discussed with the producers of the protective gloves.</p>
Skin and body protection	<p>: Wear as appropriate:</p> <p>Impervious clothing</p> <p>Safety shoes</p> <p>Flame-resistant clothing</p> <p>Choose body protection according to the amount and concentration of the dangerous substance at the work place.</p> <p>Discard gloves that show tears, pinholes, or signs of wear.</p>
Respiratory protection	: In the case of vapour formation use a respirator with an approved filter.
Filter type	: Organic vapour type (A)

## 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	<p>: 145 °C</p> <p>Calculated Phase Transition Liquid/Gas</p>

**SAFETY DATA SHEET**

Revision Date: 17.12.2024

Print Date: 19.12.2024

SDS Number: R0401425

Version: 6.0

**GPX Premium Polyester Laminating Resin**

Flammability : May form combustible dust concentrations in air (during processing).

Upper explosion limit / Upper flammability limit : 6,1 %(V)  
GLP: Calculated Explosive Limit

Lower explosion limit / Lower flammability limit : 1,1 %(V)  
GLP: Calculated Explosive Limit

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)

Flow time : > 0,011 h  
Method: ISO 2431

Solubility(ies)  
Water solubility : dispersible

Solubility in other solvents : No data available

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


Vapour pressure : 8,53248 hPa (25 °C)  
Calculated Vapor Pressure

Relative density : No data available

Density : 1,08 g/cm<sup>3</sup> (23 °C)

Relative vapour density : > 1  
(Air = 1.0)

Particle characteristics

		Page: 13
SAFETY DATA SHEET		Revision Date: 17.12.2024
		Print Date: 19.12.2024
		SDS Number: R0401425
GPX Premium Polyester Laminating Resin		Version: 6.0

Assessment : Assessment: This substance/ mixture contains nanoforms

## 9.2 Other information

Oxidizing properties : No data available

Flammability (liquids) : Static Accumulating liquid

Self-ignition : No data available

Evaporation rate : 1  
Ethyl Ether = 1

## 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.  
This product does not present a dust explosion hazard as delivered. However, fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source, is a potential dust explosion hazard.

### 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



<b>SAFETY DATA SHEET</b>	Revision Date: 17.12.2024
	Print Date: 19.12.2024
	SDS Number: R0401425
<b>GPX Premium Polyester Laminating Resin</b>	Version: 6.0

Copper alloys  
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

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

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 : LD<sub>50</sub> (Rat): > 2.000 mg/kg



<b>SAFETY DATA SHEET</b>	Revision Date: 17.12.2024
	Print Date: 19.12.2024
	SDS Number: R0401425
<b>GPX Premium Polyester Laminating Resin</b>	Version: 6.0

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.

#### **N,N-diethylaniline:**

Acute oral toxicity : LD50 (Rat): 606 mg/kg  
Assessment: The component/mixture is classified as acute oral toxicity, category 3.

Acute inhalation toxicity : LC50 (Rat): 1,92 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Assessment: The component/mixture is classified as acute inhalation toxicity, category 3.

Acute dermal toxicity : LD50 (Rat): > 5.000 mg/kg  
Assessment: The component/mixture is classified as acute dermal toxicity, category 3.

#### **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): > 5.000 mg/kg

#### **Hydroquinone:**

Acute oral toxicity : LD50 (Rat, female): 367 mg/kg  
Method: OECD Test Guideline 401



## SAFETY DATA SHEET

Revision Date: 17.12.2024

Print Date: 19.12.2024

SDS Number: R0401425

Version: 6.0

## GPX Premium Polyester Laminating Resin

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.

**Fatty acids, C9-13-neo-, copper salts:**

Acute oral toxicity : Assessment: The component/mixture is moderately toxic after single ingestion.

Acute dermal toxicity : LD50 (Rat): > 3.460 mg/kg  
 Assessment: No adverse effect has been observed in acute dermal toxicity tests.

**Skin corrosion/irritation**

Causes skin irritation.

**Product:**

Remarks : May cause skin irritation and/or dermatitis.

Result : Repeated exposure may cause skin dryness or cracking.

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

Species : Rabbit  
 Result : Irritating to skin.

Species : human skin  
 Result : No skin irritation

**N,N-diethylaniline:**

Species : Rabbit  
 Result : Slight, transient irritation

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

Result : No skin irritation

**Hydroquinone:**



<b>SAFETY DATA SHEET</b>	Revision Date: 17.12.2024
	Print Date: 19.12.2024
	SDS Number: R0401425
<b>GPX Premium Polyester Laminating Resin</b>	Version: 6.0

Result : No skin irritation

**Fatty acids, C9-13-neo-, copper salts:**

Species : Rabbit  
 Method : OECD Test Guideline 404  
 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.

**N,N-diethylaniline:**

Species : Rabbit  
 Result : Slight, transient irritation

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

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

**Hydroquinone:**

Result : Corrosive

**Fatty acids, C9-13-neo-, copper salts:**

Remarks : No data available



## SAFETY DATA SHEET

Revision Date: 17.12.2024

Print Date: 19.12.2024

SDS Number: R0401425

Version: 6.0

## GPX Premium Polyester Laminating Resin

### Respiratory or skin sensitisation

#### Skin sensitisation

Not classified based on available information.

#### Respiratory sensitisation

Not classified based on available information.

#### 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

##### N,N-diethylaniline:

Species : Guinea pig  
 Assessment : Does not cause skin sensitisation.

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

Test Type : Local lymph node assay  
 Species : Mouse  
 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.

##### Fatty acids, C9-13-neo-, copper salts:

Species : Guinea pig  
 Method : OECD Test Guideline 406  
 Result : Not a skin sensitizer.



<b>SAFETY DATA SHEET</b>	Revision Date: 17.12.2024
	Print Date: 19.12.2024
	SDS Number: R0401425
<b>GPX Premium Polyester Laminating Resin</b>	Version: 6.0

**Germ cell mutagenicity**

Not classified based on available information.

**Components:****N,N-diethylaniline:**

Genotoxicity in vitro : Test Type: Ames test  
 Test system: Salmonella typhimurium  
 Metabolic activation: with and without metabolic activation  
 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  
 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

**Fatty acids, C9-13-neo-, copper salts:**

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



<b>SAFETY DATA SHEET</b>	Revision Date: 17.12.2024
	Print Date: 19.12.2024
	SDS Number: R0401425
<b>GPX Premium Polyester Laminating Resin</b>	Version: 6.0

Genotoxicity in vivo : Test Type: Micronucleus test  
Species: Mouse  
Cell type: Bone marrow  
Method: Regulation (EC) No. 440/2008, Annex, B.12  
Result: negative

### **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.

#### **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.

### **STOT - repeated exposure**

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

		Page: 21
SAFETY DATA SHEET		Revision Date: 17.12.2024
		Print Date: 19.12.2024
		SDS Number: R0401425
GPX Premium Polyester Laminating Resin		Version: 6.0

#### Components:

##### **Styrene:**

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

##### **N,N-diethylaniline:**

Target Organs : female reproductive organs  
 Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

#### **Repeated dose toxicity**

#### Components:

##### **Styrene:**

Species : Human  
 : 20 mg/l  
 Application Route : inhalation (vapour)  
 Target Organs : Auditory system (hearing)

Species : Human  
 NOAEL : 615 mg/kg  
 Application Route : Skin contact

#### **Aspiration toxicity**

Not classified based on available information.

#### Components:

##### **Styrene:**


May be fatal if swallowed and enters airways.

## **11.2 Information on other hazards**

#### **Further information**

#### Product:

Remarks : Solvents may degrease the skin.

		Page: 22
SAFETY DATA SHEET		Revision Date: 17.12.2024
		Print Date: 19.12.2024
		SDS Number: R0401425
GPX Premium Polyester Laminating Resin		Version: 6.0

## 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 aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 4,7 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	: ErC50 (Pseudokirchneriella subcapitata (green algae)): 4,9 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 aquatic invertebrates (Chronic toxicity)	: NOEC: 1,01 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea)
Toxicity to soil dwelling organisms	: NOEC: 34 mg/kg Exposure time: 14 d Species: Eisenia fetida (earthworms) Method: OECD Test Guideline 207

##### **N,N-diethylaniline:**

Toxicity to fish	: LC50 (Pimephales promelas (fathead minnow)): 16,4 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 1,3 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	: EC50 (Pseudokirchneriella subcapitata (green algae)): Calculated 3,07 mg/l

		Page: 23
SAFETY DATA SHEET		Revision Date: 17.12.2024
		Print Date: 19.12.2024
		SDS Number: R0401425
GPX Premium Polyester Laminating Resin		Version: 6.0

Exposure time: 72 h  
Test Type: static test

**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  
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

10

Toxicity to daphnia and other aquatic invertebrates : NOEC: 0,0029 mg/l  
Exposure time: 21 d



<b>SAFETY DATA SHEET</b>	Revision Date: 17.12.2024
	Print Date: 19.12.2024
	SDS Number: R0401425
<b>GPX Premium Polyester Laminating Resin</b>	Version: 6.0

(Chronic toxicity)

Species: Daphnia magna (Water flea)

Test Type: semi-static test

Method: OECD Test Guideline 211

M-Factor (Chronic aquatic toxicity) : 1

**Fatty acids, C9-13-neo-, copper salts:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 0,193 mg/l  
 Exposure time: 96 h  
 Remarks: Information given is based on data obtained from similar substances.

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): > 1.000 mg/l  
 Exposure time: 48 h  
 Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EL50 (Pseudokirchneriella subcapitata (algae)): > 100 mg/l  
 End point: Growth inhibition  
 Exposure time: 72 h  
 Method: OECD Test Guideline 201

NOEC (Lemna minor (duckweed)): 0,030 mg/l  
 End point: Growth inhibition  
 Exposure time: 7 h  
 Method: OECD Test Guideline 201

M-Factor (Acute aquatic toxicity) : 10

Toxicity to fish (Chronic toxicity) : Chronic Toxicity Value: 1,6 mg/l  
 Exposure time: 30 d  
 Species: Fish  
 Method: QSAR

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : Chronic Toxicity Value: 1,7 mg/l  
 Species: Daphnia magna (Water flea)  
 Method: QSAR

M-Factor (Chronic aquatic toxicity) : 1



<b>SAFETY DATA SHEET</b>	Revision Date: 17.12.2024
	Print Date: 19.12.2024
	SDS Number: R0401425
<b>GPX Premium Polyester Laminating Resin</b>	Version: 6.0

## 12.2 Persistence and degradability

### Components:

#### **Styrene:**

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

#### **N,N-diethylaniline:**

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 0 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301D

#### **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

#### **Fatty acids, C9-13-neo-, copper salts:**

Biodegradability : Result: The methods for determining biodegradability are not applicable to inorganic substances.

## 12.3 Bioaccumulative potential

### Components:

#### **Styrene:**

Bioaccumulation : Bioconcentration factor (BCF): < 100

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

#### **N,N-diethylaniline:**



<b>SAFETY DATA SHEET</b>	Revision Date: 17.12.2024
	Print Date: 19.12.2024
	SDS Number: R0401425
<b>GPX Premium Polyester Laminating Resin</b>	Version: 6.0

Partition coefficient: n-octanol/water : log Pow: 3,31

**Hydroquinone:**

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

**Fatty acids, C9-13-neo-, copper salts:**

Bioaccumulation : Bioconcentration factor (BCF): < 225

## 12.4 Mobility in soil

**Components:**

**Styrene:**

Distribution among environmental compartments : Koc: 352

## 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 : Substance is not persistent, bioaccumulative, and toxic (PBT).. Substance is not very persistent and very bioaccumulative (vPvB).

**N,N-diethylaniline:**

Assessment : Substance is not persistent, bioaccumulative, and toxic (PBT).. Substance is not very persistent and very bioaccumulative (vPvB).

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

Assessment : Remarks: Not applicable



<b>SAFETY DATA SHEET</b>		Revision Date: 17.12.2024
		Print Date: 19.12.2024
		SDS Number: R0401425
<b>GPX Premium Polyester Laminating Resin</b>		Version: 6.0

**Hydroquinone:**

Assessment : Substance is not persistent, bioaccumulative, and toxic (PBT).. Substance is not very persistent and very bioaccumulative (vPvB).

**Fatty acids, C9-13-neo-, copper salts:**

Assessment : Remarks: Not applicable

**12.6 Endocrine disrupting properties**

No data available

**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.

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

**ADN:** UN1866

**ADR:** UN1866

		Page: 28
SAFETY DATA SHEET		Revision Date: 17.12.2024
		Print Date: 19.12.2024
		SDS Number: R0401425
GPX Premium Polyester Laminating Resin		Version: 6.0

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  
 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

		Page: 29
SAFETY DATA SHEET		Revision Date: 17.12.2024
		Print Date: 19.12.2024
		SDS Number: R0401425
GPX Premium Polyester Laminating Resin		Version: 6.0

#### 14.7 Transport in bulk according to IMO instruments

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

UK REACH List of restrictions (Annex 17) :

UK REACH List of restrictions (Annex 17) : benzene  
(72, 5, 29, 28)

GB Export and import of hazardous chemicals - Prior Informed Consent (PIC) Regulation : Not applicable

Control of Major Accident Hazards Regulations 2015 (COMAH)

		Quantity 1	Quantity 2
P5c	FLAMMABLE LIQUIDS	5.000 t	50.000 t

Other regulations : Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to new and expectant mothers at work contained in Regulation 16 to 18) and of the Pregnant Workers Directive 92/85/EEC.


Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to protection of young people at work contained in Regulation 19) and of Directive 94/33/EC on the protection of young people at work.

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

TCSI : Not in compliance with the inventory

TSCA Product contains substance(s) not listed on TSCA inventory.

AIIC Not in compliance with the inventory

		Page: 30
SAFETY DATA SHEET		Revision Date: 17.12.2024
		Print Date: 19.12.2024
		SDS Number: R0401425
GPX Premium Polyester Laminating Resin		Version: 6.0

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
ISHL	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)

### 15.2 Chemical safety assessment

No data available

## SECTION 16: Other information

#### Further information

Revision Date: 17.12.2024

#### 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
H361d	Suspected of damaging the unborn child.	Calculation method
H335	May cause respiratory irritation.	Calculation method
H372	Causes damage to organs through	Calculation method



<b>SAFETY DATA SHEET</b>	Revision Date: 17.12.2024
	Print Date: 19.12.2024
	SDS Number: R0401425
<b>GPX Premium Polyester Laminating Resin</b>	Version: 6.0

H412 prolonged or repeated exposure.  
Harmful to aquatic life with long lasting effects.

Calculation method

#### Full text of H-Statements

H226 Flammable liquid and vapour.  
H301 Toxic if swallowed.  
H302 Harmful if swallowed.  
H304 May be fatal if swallowed and enters airways.  
H311 Toxic in contact with skin.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H331 Toxic if inhaled.  
H332 Harmful if inhaled.  
H335 May cause respiratory irritation.  
H341 Suspected of causing genetic defects.  
H351 Suspected of causing cancer.  
H360Fd May damage fertility. Suspected of damaging the unborn child.  
H361d Suspected of damaging the unborn child.  
H372 Causes damage to organs through prolonged or repeated exposure.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.  
H411 Toxic to aquatic life with long lasting effects.  
H412 Harmful to aquatic life with long lasting effects.

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.



<b>SAFETY DATA SHEET</b>	Revision Date: 17.12.2024
	Print Date: 19.12.2024
	SDS Number: R0401425
<b>GPX Premium Polyester Laminating Resin</b>	Version: 6.0

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

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

		Page: 33
SAFETY DATA SHEET		Revision Date: 17.12.2024
		Print Date: 19.12.2024
		SDS Number: R0401425
GPX Premium Polyester Laminating Resin		Version: 6.0

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  
 GB / EN