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General Purpose Polyester Laminating resin	Version: 3.0

Conforms to EU Regulation 1907/2006/EC as amended. - SDSGHS_GB

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

1.1 Product identifier

Trade name : General Purpose Polyester Laminating Resin

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.	1.4 Emergency telephone number +44(0) 1782 454499 (office hours only)
safety@easycomposites.co.uk	

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.

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

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

H335: May cause respiratory irritation.

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

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

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.

H319 Causes serious eye irritation. H335 May cause respiratory irritation.

H361d Suspected of damaging the unborn child. H372 Causes damage to organs (Auditory

organs) through prolonged or repeated

exposure if inhaled.

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 dust/ fume/ gas/ mist/

vapours/ spray.

P264 Wash skin thoroughly after handling.
P280 Wear protective gloves/ protective clothing/

eye protection/ face protection.

Response:

P370 + P378 In case of fire: Use dry sand, dry chemical

or alcohol-resistant foam to extinguish.

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Hazardous components which must be listed on the label:

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

Hazardous components

Chemical name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration (%)
Styrene	100-42-5 202-851-5 01-2119457861-32-xxxx	Flam. Liq.3; H226 Acute Tox.4; H332 Skin Irrit.2; H315 Eye Irrit.2; H319 Repr.2; H361d STOT SE3; H335 STOT RE1; H372 Asp. Tox.1; H304 Aquatic Chronic3; H412	>= 40,00 - < 50,00
N,N-diethylaniline	91-66-7 202-088-8 01-2119943758-22-XXXX	Acute Tox.3; H301 Acute Tox.3; H331 Acute Tox.3; H311 STOT RE2; H373 Aquatic Chronic2; H411	>= 0,10 - < 0,25
cobalt bis(2- ethylhexanoate)	136-52-7 205-250-6	Eye Irrit.2; H319 Skin Sens.1A; H317	>= 0,025 - < 0,10

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	01-2119524678-29-XXXX	Repr.1B; H360Fd Aquatic Acute1; H400 Aquatic Chronic3; H412	
2-methylhydroquinone	95-71-6 202-443-7 05-2114477355-41-xxxx	Acute Tox.4; H302 Skin Irrit.2; H315 Eye Irrit.2; H319 Aquatic Acute1; H400 Aquatic Chronic1; H410	>= 0,0025 - < 0,025
Substances with a workplace exposure limit:			

Amorphous colloidal	112945-52-5	>= 1,00 - <
silica	231-545-4	2,50

For explanation of abbreviations see section 16.

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

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.

: Immediately flush eye(s) with plenty of water. In case of eye contact

Remove contact lenses.

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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.

Suspected of damaging the unborn child.

Causes damage to organs through prolonged or repeated

exposure if inhaled.

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 (CO2)

Dry chemical

Unsuitable extinguishing

media

: High volume water jet

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5.2 Special hazards arising from the substance or mixture

Hazardous combustion : Carbon dioxide (CO2)

Carbon monoxide products Hydrocarbons

5.3 Advice for firefighters

for firefighters

Special protective equipment : 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.

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

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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.

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

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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	TWA	100 ppm 430 mg/m3	GB EH40
		STEL	250 ppm 1.080 mg/m3	GB EH40
Amorphous colloidal silica	112945-52-5	TWA (inhalable dust)	6 mg/m3 inhalable dust (Silica)	GB EH40
		TWA (Respirable dust)	2,4 mg/m3 Respirable dust (Silica)	GB EH40
cobalt bis(2- ethylhexanoate)	136-52-7	TWA	0,1 mg/m3 (Cobalt)	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/m3 End Use: Workers **Exposure routes: Inhalation**

Potential health effects: Short-term exposure, Local effects

Value: 306 mg/m3 End Use: Workers

Exposure routes: Inhalation

Potential health effects: Long-term exposure, Systemic effects

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Value: 85 mg/m3 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/m3 End Use: Consumers Exposure routes: Inhalation Potential health effects: Short-term exposure, Local effects Value: 182,75 mg/m3 **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/m3

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/lIntermittent 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

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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.

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 minGlove 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

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.

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Respiratory protection complying with EN 14387.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : liquid

Odour : pungent

Odour Threshold : No data available

pH

No data available

Melting point/freezing point : No data available

Boiling point/boiling range : 145 °C

Calculated Phase Transition Liquid/Gas

Flash point : 29 °C

Method: Seta closed cup

Other information: Static Accumulating liquid

Evaporation rate : 1

Ethyl Ether = 1

Flammability (solid, gas) : May form combustible dust concentrations in air (during

processing).

Upper explosion limit : 6,1 %(V)

GLP: Calculated Explosive Limit

Lower explosion limit : 1,1 %(V)

GLP: Calculated Explosive Limit

Vapour pressure : 8,53248 hPa (25 °C)

Calculated Vapor Pressure

Relative vapour density : > 1

(Air = 1.0)

Relative density : No data available

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Density : 0,995 g/cm3

Solubility(ies)

Water solubility : dispersible

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

No data available

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : > 20,5 mm2/s (40 °C)

Flow time : > 0.011 h

Method: ISO 2431

Oxidizing properties : No data available

9.2 Other information

No data available

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.

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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 halogens iron chloride metal salts

Strong oxidizing agents

Peroxides

10.6 Hazardous decomposition products

Hazardous decomposition : H

products

: Hydrocarbons

Acetone

Carbon dioxide (CO2) Carbon monoxide

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Information on likely routes of : Inhalation

exposure

Skin contact Eye Contact

Eye Contaction

Acute toxicity

Not classified based on available information.

Components:

Styrene

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

Acute inhalation toxicity : LC50 (Rat): 11,8 mg/l, 2770 ppm

Exposure time: 4 h
Test atmosphere: vapour

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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.

Components:

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.

Components:

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.

Acute dermal toxicity : LD50 (Rabbit): > 5.000 mg/kg

Components:

2-methylhydroquinone

Acute oral toxicity : LD50 (Mouse): > 400 mg/kg

LD50 (Rat): 754 mg/kg

Acute dermal toxicity : LD50 (Guinea pig): > 1.000 mg/kg

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Assessment: Not classified as acutely toxic by dermal

absorption under GHS.

Components:

Amorphous colloidal silica

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg

Assessment: Not classified as acutely toxic by dermal

absorption under GHS.

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

2-methylhydroquinone

Result: Irritating to skin.

Amorphous colloidal silica

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.

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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.

2-methylhydroquinone Result: Irritating to eyes.

Amorphous colloidal silica

Result: No eye irritation

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.

Exposure routes: inhalation (vapour)

Species: Humans

Assessment: Does not cause respiratory sensitisation.

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.

2-methylhydroquinone

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Exposure routes: Dermal Species: Guinea pig

Assessment: Does not cause skin sensitisation.

Germ cell mutagenicity

Not classified based on available information.

Components: N,N-diethylaniline

Genotoxicity in vitro : Test Type: Ames test

Test species: 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

Carcinogenicity

Not classified based on available information.

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 (Auditory organs) through prolonged or repeated exposure if inhaled. **Components:**

Styrene

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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

85 mg/m3

Application Route: inhalation (vapour)

Species: Human 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.

Further information

Product:

Remarks: Solvents may degrease the skin.

SECTION 12: Ecological information

12.1 Toxicity

Components:

Styrene

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

Exposure time: 96 h

aquatic invertebrates

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 4,7 mg/l

Exposure time: 48 h

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Toxicity to algae : 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 bacteria : 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

Charles Figurio fotido (as

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 : EC50 (Pseudokirchneriella subcapitata (green algae)):

Calculated 3,07 mg/l Exposure time: 72 h Test Type: static test

cobalt bis(2-ethylhexanoate)

M-Factor (Short-term (acute) :

aquatic hazard)

1

Ecotoxicology Assessment

Short-term (acute) aquatic

hazard

Acute aquatic toxicity Category 1

Long-term (chronic) aquatic : Chr

hazard

: Chronic aquatic toxicity Category 3

2-methylhydroquinone

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 0,09 mg/l

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Exposure time: 96 h

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): 0,19 mg/l

Exposure time: 48 h

M-Factor (Short-term (acute)

aquatic hazard)

10

Amorphous colloidal silica

Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): > 10.000 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

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

2-methylhydroquinone

Biochemical Oxygen : 940 mg/g

Demand (BOD) Incubation time: 5 d

Chemical Oxygen Demand : 1.970 mg/g

(COD)

BOD/COD : BOD/COD: 0,48 %

Amorphous colloidal silica

Biodegradability : Result: The methods for determining biodegradability are not

applicable to inorganic substances.

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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

Partition coefficient: n-

octanol/water

: log Pow: 3,31

2-methylhydroquinone

Partition coefficient: n-

ficient: n- : log Pow: 1,58

octanol/water

12.4 Mobility in soil

Components:

Styrene

Distribution among : Ko

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 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 Other adverse effects

Product:

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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

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

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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: ||| INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: |||

INTERNATIONAL MARITIME DANGEROUS GOODS: |||

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

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

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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,

preparations 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.

Quantity 1

Quantity 2

FLAMMABLE LIQUIDS P₅c

5.000 t

50.000 t

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:

DSL : This product contains one or several components that are not

on the Canadian DSL and have annual quantity limits.

AICS Not in compliance with the inventory

ENCS Not in compliance with the inventory

KECI Not in compliance with the inventory

PICCS Not in compliance with the inventory

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IECSC Not in compliance with the inventory

TCSI Not in compliance with the inventory

TSCA On TSCA Inventory

Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA) On or in compliance with the active portion of the TSCA inventory

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
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 if inhaled.	Calculation method
H412	Harmful to aquatic life with long lasting effects.	Calculation method

Full text of H-Statements

H226 Flammable liquid and vapour.

H301 Toxic if swallowed.

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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.

H319 Causes serious eye irritation.

H331 Toxic if inhaled. H332 Harmful if inhaled.

H335 May cause respiratory irritation.

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 if

inhaled.

H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

Very toxic to aquatic life with long lasting effects.
Toxic to aquatic life with long lasting effects.
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

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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

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

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