



SAFETY DATA SHEET	Revision Date: 18.06.2025
	Print Date: 19.06.2025
	SDS Number: 000000260604
Aropol™ PTM 208 TA RESIN ™ Trademark, INEOS or its subsidiaries, registered in various countries 865801	Version: 8.0

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 : Aropol™ PTM 208 TA
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

1-800-424-9300 (+1-703-527-3887 for direct dial),
or contact your local emergency telephone number
at 111 - ENG, SCO, CYM and 0808 808 8000 -
NIE (Mo - Fr, 08.00 - 18.00)

Regulatory Information Number

+1-614-790-9299 (in US), or contact your local
customer service representative

Product Information

+34 93 206 51 20 (in Spain)

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.

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

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 (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:	
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), 4-tert-butylpyrocatechol. 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

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	>= 40 - < 50
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	>= 0,025 - < 0,1

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4-tert-butylpyrocatechol	98-29-3 202-653-9	M-Factor (Acute aquatic toxicity): 1 Acute Tox. 4; H302 Acute Tox. 4; H312 Skin Corr. 1B; H314 Eye Dam. 1; H318 Skin Sens. 1A; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 <hr/> M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	>= 0,0025 - < 0,025
Substances with a workplace exposure limit :			
Amorphous colloidal silica	112945-52-5		>= 1 - < 2,5

For explanation of abbreviations see section 16.

This substance/ mixture contains nanoforms (according to REACH Regulation)

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.


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- 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.
 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


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Alcohol-resistant foam
 Carbon dioxide (CO₂)
 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 (CO₂)
 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.

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.


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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.

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


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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)

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 ³	GB EH40
		STEL	250 ppm 1.080 mg/m ³	GB EH40
Amorphous colloidal silica	112945-52-5	TWA (inhalable dust)	6 mg/m ³ inhalable dust (Silica)	GB EH40
		TWA (Respirable)	2,4 mg/m ³	GB EH40

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		dust)	Respirable dust (Silica)	
cobalt bis(2-ethylhexanoate)	136-52-7	TWA	0,1 mg/m ³ (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
- 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:


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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.

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 : 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 suitability for a specific workplace should be discussed with the producers of the protective gloves.

Skin and body protection : Wear as appropriate:
 Impervious clothing
 Safety shoes
 Flame-resistant clothing
 Choose body protection according to the amount and


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concentration of the dangerous substance at the work place.
 Discard gloves that show tears, pinholes, or signs of wear.

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 : No data available

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

Upper explosion limit / Upper flammability limit : No data available

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 mm²/s (40 °C)

Solubility(ies)


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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 : 1,15 g/cm³

Relative vapour density : No data available

Particle characteristics
 Assessment : Assessment: This substance/ mixture contains nanoforms
 (according to REACH Regulation)

9.2 Other information

Oxidizing properties : No data available

Self-ignition : No data available

Evaporation rate : 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 products : Carbon dioxide (CO₂)
 Carbon monoxide
 Hydrocarbons
 Acetone
 No hazardous decomposition products are known.

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


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Exposure time: 4 h
 Test atmosphere: vapour
 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: The substance or mixture has no acute dermal toxicity

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: The substance or mixture has no acute inhalation toxicity

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

4-tert-butylpyrocatechol:

- Acute oral toxicity : LD50 (Rat, male): 815 mg/kg
 Method: OECD Test Guideline 401
 GLP: yes
- Acute dermal toxicity : LD50 (Rat): 1.331 mg/kg
 Method: OECD Test Guideline 402
 GLP: yes

Amorphous colloidal silica:


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

Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg
 Assessment: The substance or mixture has no acute dermal toxicity

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

cobalt bis(2-ethylhexanoate):

Result : No skin irritation

4-tert-butylpyrocatechol:

Species : Rabbit
 Method : OECD Test Guideline 404
 Result : Corrosive after 3 minutes to 1 hour of exposure
 GLP : yes

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.


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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.

cobalt bis(2-ethylhexanoate):

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

4-tert-butylpyrocatechol:

Species : Rabbit
 Method : OECD Test Guideline 405
 Result : Corrosive
 GLP : yes

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.
 Result : negative

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


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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.

4-tert-butylpyrocatechol:

Test Type : Maximisation Test
 Species : Guinea pig
 Assessment : The product is a skin sensitiser, sub-category 1A.
 Method : OECD Test Guideline 406

Germ cell mutagenicity

Not classified based on available information.

Components:
cobalt bis(2-ethylhexanoate):

Genotoxicity in vitro : Test Type: Ames test
 Result: negative

Genotoxicity in vivo : Test Type: In vivo micronucleus test
 Result: negative

4-tert-butylpyrocatechol:

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro
 Test system: Chinese hamster ovary cells
 Metabolic activation: without metabolic activation
 Method: OECD Test Guideline 473
 Result: positive
 GLP: yes

Test Type: Chromosome aberration test in vitro
 Test system: Chinese hamster ovary cells
 Metabolic activation: with metabolic activation
 Method: OECD Test Guideline 473
 Result: negative
 GLP: yes

Test Type: Ames test


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

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 (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.


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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.

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


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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

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.

4-tert-butylpyrocatechol:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 0,12 mg/l
 Exposure time: 96 h
 Test Type: semi-static test
 Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,48 mg/l
 Exposure time: 48 h
 Test Type: semi-static test
 Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : NOEC (Pseudokirchneriella subcapitata (green algae)): 0,2 mg/l
 End point: Growth inhibition


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Exposure time: 72 h
 Test Type: static test
 Method: OECD Test Guideline 201
 GLP: yes

EC50 (Pseudokirchneriella subcapitata (algae)): 10,17 mg/l
 End point: Growth inhibition
 Exposure time: 72 h
 Test Type: static test
 Method: OECD Test Guideline 201
 GLP: yes

M-Factor (Acute aquatic toxicity) : 1

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,135 mg/l
 Exposure time: 21 d
 Species: Daphnia magna (Water flea)
 Method: OECD Test Guideline 211

M-Factor (Chronic aquatic toxicity) : 1

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

cobalt bis(2-ethylhexanoate):

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



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4-tert-butylpyrocatechol:

Biodegradability : Result: Not readily biodegradable.
 Biodegradation: 24,7 %
 Exposure time: 28 d
 Method: OECD Test Guideline 310

Amorphous colloidal silica:

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)

4-tert-butylpyrocatechol:

Partition coefficient: n-octanol/water : log Pow: 1,98 (25 °C)
 Method: OECD Test Guideline 107
 GLP: no

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.



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Components:

Styrene:

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

4-tert-butylpyrocatechol:

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

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.


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SECTION 14: Transport information
14.1 UN number or ID 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

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: Not applicable

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: Not applicable



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INTERNATIONAL MARITIME DANGEROUS GOODS: Not applicable

RID: Not applicable

14.6 Special precautions for user

Not applicable

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 substances subject to authorisation (Annex XIV) : Not applicable

UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation : Not applicable

The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain) : Not applicable

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)

P5c	FLAMMABLE LIQUIDS	Quantity 1 5.000 t	Quantity 2 50.000 t


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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	: On the inventory, or in compliance with the inventory
TSCA	On or in compliance with the active portion of the TSCA inventory
AIIC	All components are listed on the inventory, regulatory obligations/restrictions apply
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	On the inventory, or 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
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.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
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.
H400	Very toxic to aquatic life.
H410	Very 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



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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

P-Statement : Precautionary Statement

PBT : Persistent , Bioaccumulative and Toxic

PPE : Personal Protective Equipment

STEL : Short-term exposure limit

STOT : Specific Target Organ Toxicity

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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