



Performance Materials

SAFETY DATA SHEET

Revision Date: 11.07.2025

Print Date: 20.11.2025

SDS Number: 000000311820

Version: 3.1

Modar™ NX 870 TFE RESIN
 ™ Trademark, ALTA its subsidiaries, registered in
 various countries
 951504

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

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

Trade name : Modar™ NX 870 TFE
 RESIN
 ™ Trademark, ALTA its subsidiaries, registered in various
 countries

UFI: G262-Q019-R00J-MWTY

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

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

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

sds.composites@altapm.com

1.4 Emergency telephone number

001-800-424-9300/001-703-527-3887, or contact
 your local emergency telephone number at 030
 274 88 88. Exclusively for medical professionals in
 case of acute poisoning.

Regulatory Information Number

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

Product Information

+34 93 206 51 20 (in Spain)

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture****Classification (REGULATION (EC) No 1272/2008)**

Flammable liquids, Category 2

H225: Highly flammable liquid and vapour.

Skin irritation, Category 2

H315: Causes skin irritation.



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Eye irritation, Category 2

H319: Causes serious eye irritation.

Skin sensitisation, Category 1

H317: May cause an allergic skin reaction.

Reproductive toxicity, Category 2

H361d: Suspected of damaging the unborn child.

Specific target organ toxicity - repeated exposure, Category 2, hearing organs

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

2.2 Label elements**Labelling (REGULATION (EC) No 1272/2008)**

Hazard pictograms :



Signal word : Danger

Hazard statements : H225 Highly flammable liquid and vapour.
 H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H319 Causes serious eye irritation.
 H361d Suspected of damaging the unborn child.
 H373 May cause damage to organs (hearing organs) through prolonged or repeated exposure.

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.
 P233 Keep container tightly closed.
 P260 Do not breathe mist or vapours.
 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.

Hazardous components which must be listed on the label:

methyl methacrylate



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Styrene

cobalt bis(2-ethylhexanoate)

maleic anhydride

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

2.3 Other hazards

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

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

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

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
methyl methacrylate	80-62-6 201-297-1 607-035-00-6 01-2119452498-28-xxxx	Flam. Liq. 2; H225 Skin Irrit. 2; H315 Skin Sens. 1; H317 STOT SE 3; H335 (Respiratory system)	>= 5 - < 10
Styrene	100-42-5 202-851-5 601-026-00-0 01-2119457861-32-xxxx	Flam. Liq. 3; H226 Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Repr. 2; H361d STOT SE 3; H335 (Respiratory system)	>= 5 - < 10



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		STOT RE 1; H372 (hearing organs) Asp. Tox. 1; H304 Aquatic Chronic 3; H412	
triethyl phosphate	78-40-0 201-114-5 015-013-00-7 01-2119492852-28-xxxx	Acute Tox. 4; H302 Eye Irrit. 2; H319	>= 5 - < 10
cobalt bis(2-ethylhexanoate)	136-52-7 205-250-6 607-230-00-6 01-2119524678-29-xxxx	Eye Irrit. 2; H319 Skin Sens. 1A; H317 Repr. 1B; H360D Aquatic Acute 1; H400 Aquatic Chronic 3; H412 M-Factor (Acute aquatic toxicity): 1	>= 0,025 - < 0,1
maleic anhydride	108-31-6 203-571-6 607-096-00-9 01-2119472428-31-xxxx	Acute Tox. 4; H302 Skin Corr. 1B; H314 Eye Dam. 1; H318 Resp. Sens. 1; H334 Skin Sens. 1A; H317 STOT RE 1; H372 (Respiratory system) EUH071 specific concentration limit Skin Sens. 1A; H317 >= 0,001 % Acute toxicity estimate Acute oral toxicity: 1.090 mg/kg	>= 0 - < 0,001

For explanation of abbreviations see section 16.



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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 : If breathed in, move person into fresh air.
 If unconscious, place in recovery position and seek medical
 advice.
 If symptoms persist, call a physician.
- 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 : Do NOT induce vomiting.
 Rinse mouth.
- 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)
 Cough



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Headache
effects on memory
loss of appetite
Shortness of breath
confusion
pain in the hands and feet
Difficulty in breathing

Risks

: Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.
Suspected of damaging the unborn child.
May cause 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 (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.



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Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products

: Metal oxides
Carbon dioxide (CO₂)
Carbon monoxide
Hydrocarbons
Burning produces noxious and toxic fumes.
Oxides of phosphorus

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 : Ventilate the area.
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.



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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 : Use only in area provided with appropriate exhaust ventilation.
 In case of insufficient ventilation, wear suitable respiratory
 equipment.
 During spraying, wear suitable respiratory equipment.

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



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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 : Handle in accordance with good industrial hygiene and safety practice.

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.

Further information on storage conditions : Keep locked up or in an area accessible only to qualified or authorised persons.

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
methyl methacrylate	80-62-6	TWA	50 ppm	2009/161/EU
		STEL	100 ppm	2009/161/EU
		TLV-8hr	50 ppm	NL WG



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			205 mg/m3	
		TLV-15 min	100 ppm	NL WG
			410 mg/m3	

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:

Styrene : Fresh water
 Value: 0,028 mg/l

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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

maleic anhydride

: Fresh water
Value: 0,04281 mg/l
Marine water
Value: 0,00428 mg/l
Fresh water sediment
Value: 0,334 mg/kg
Marine sediment
Value: 0,0334 mg/kg
Sewage treatment plant
Value: 44,6 mg/l
Soil
Value: 0,0415 mg/kg

8.2 Exposure controls

Engineering measures

Prevent unauthorised persons entering the zone.

Maintain air concentrations below occupational exposure standards.

All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment.

Minimize open handling.

Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., drip-less quick connections).

Use closed processing systems or containment technologies to control at source (e.g., glove boxes/isolators) and to prevent leakage of compounds into the workplace.

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 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.

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Personal protective equipment

Eye protection	: Wear chemical splash goggles when there is the potential for exposure of the eyes to liquid, vapor or mist.
	Use eye protection according to EN 166.
Hand protection	
Material	: Laminate (Barrier© or Silvershield©)
Break through time	: 480 min
Glove thickness	: > 0,5 mm
Remarks	: The exact break through time can be obtained from the protective glove producer and this has to be observed. Gloves should be discarded and replaced if there is any indication of 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	: Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. Wear respiratory equipment when entering the spray area. In order to avoid inhalation of spray-mist and sanding dust, all spraying and sanding must be done wearing adequate respirator. 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.

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

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	: 20,3 °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 ² /s (40 °C)
Solubility(ies)	
Water solubility	: No data available
Solubility in other solvents	: No data available



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

Vapour pressure : No data available

Relative density : No data available

Density : No data available

Relative vapour density : No data available

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.

10.4 Conditions to avoid

Conditions to avoid : excessive heat
 Exposure to air.

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Exposure to sunlight.
Exposure to moisture

Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid : Acids
aluminum
aluminum chloride
Amines
Bases
Copper
Copper alloys
halogens
iron chloride
metal salts
nitrates
reducing agents
strong alkalis
Strong oxidizing agents
UV light.
Peroxides

10.6 Hazardous decomposition products

Hazardous decomposition products : aluminum oxides
Carbon monoxide
Carbon dioxide (CO₂)
Hydrocarbons
Acetone
Oxides of phosphorus

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.



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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

Components:

methyl methacrylate:

Acute oral toxicity : LD50 (Rat): 7.800 mg/kg

Acute inhalation toxicity : LC50 (Rat): 29,8 mg/l
 Exposure time: 4 h
 Test atmosphere: vapour

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

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

triethyl phosphate:

Acute oral toxicity : LD50 (Rat): 1.311 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 8,817 mg/l
 Exposure time: 4 h
 Test atmosphere: dust/mist
 Method: OECD Test Guideline 403

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Acute dermal toxicity : LD50 (Rabbit): > 20 g/kg

cobalt bis(2-ethylhexanoate):

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

Acute inhalation toxicity : LC50 (Rat): > 10 mg/l
Exposure time: 1 h
Test atmosphere: dust/mist
Assessment: The substance or mixture has no acute inhalation toxicity

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

maleic anhydride:

Acute oral toxicity : LD50 (Rat): 1.090 mg/kg

Acute toxicity estimate: 1.090 mg/kg
Method: Calculation method

Acute inhalation toxicity : LC50 (Rat): > 4,35 mg/l
Exposure time: 1 h
Test atmosphere: dust/mist
Assessment: The substance or mixture has no acute inhalation toxicity

Assessment: Corrosive to the respiratory tract.

Acute dermal toxicity : LD50 (Rabbit): 2.620 mg/kg

Skin corrosion/irritation

Causes skin irritation.

Product:

Remarks : May cause skin irritation and/or dermatitis.

Components:

methyl methacrylate:

Result : Irritating to skin.

Styrene:

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Species : Rabbit
Result : Irritating to skin.

Species : human skin
Result : No skin irritation

triethyl phosphate:

Species : Rabbit
Method : OECD Test Guideline 404
Result : No skin irritation

cobalt bis(2-ethylhexanoate):

Result : No skin irritation

maleic anhydride:

Result : Corrosive after 3 minutes to 1 hour of exposure

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:

methyl methacrylate:

Result : Slight, transient irritation

Styrene:

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

triethyl phosphate:

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

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cobalt bis(2-ethylhexanoate):

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

maleic anhydride:

Result : Corrosive

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified based on available information.

Product:

Remarks : May cause allergic skin reaction.

Components:

methyl methacrylate:

Test Type : Local lymph node assay
Species : Mouse
Method : OECD Test Guideline 429
Result : The product is a skin sensitiser, sub-category 1B.

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

cobalt bis(2-ethylhexanoate):

Test Type : Local lymph node assay
Species : Mouse
Assessment : The product is a skin sensitiser, sub-category 1A.

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Method : OECD Test Guideline 429
Remarks : Information given is based on data obtained from similar substances.

maleic anhydride:

Test Type : Buehler Test
Exposure routes : Skin contact
Species : Guinea pig
Assessment : The product is a skin sensitiser, sub-category 1A.
Result : positive

Test Type : Local lymph node assay
Exposure routes : Skin contact
Species : Mouse
Assessment : The product is a skin sensitiser, sub-category 1A.
Result : May cause sensitisation by skin contact.

Exposure routes : Skin contact
Species : Humans
Result : Causes sensitisation.

Exposure routes : inhalation (dust/mist/fume)
Species : Rat
Assessment : May cause sensitisation by inhalation.
Result : Causes sensitisation.

Exposure routes : inhalation (dust/mist/fume)
Species : Humans
Result : Causes sensitisation.

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

maleic anhydride:



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Genotoxicity in vitro : Test Type: Ames test
Metabolic activation: with and without metabolic activation
Result: negative

Test Type: In vitro mammalian cell gene mutation test
Metabolic activation: with and without metabolic activation
Result: negative

Genotoxicity in vivo : Test Type: Mammalian bone marrow sister chromatid exchange
Species: Rat (male and female)
Application Route: Inhalation
Result: negative

Carcinogenicity

Not classified based on available information.

Components:

maleic anhydride:

Species : Rat, male and female
Application Route : Oral
NOAEL : 100 mg/kg bw/day

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.

maleic anhydride:

Effects on fertility : Test Type: Two-generation study
Species: Rat, male and female
Application Route: Oral

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Fertility: NOAEL Mating/Fertility: 55 mg/kg body weight

Effects on foetal development : Test Type: Fertility/early embryonic development
Species: Rat, female
Application Route: Oral
Developmental Toxicity: NOAEL F1: 140 mg/kg body weight

STOT - single exposure

Not classified based on available information.

Components:

methyl methacrylate:

Target Organs : Upper respiratory tract
Assessment : May cause respiratory irritation.

Styrene:

Assessment : May cause respiratory irritation.

STOT - repeated exposure

May cause 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.

maleic anhydride:

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

Exposure routes : Ingestion
Target Organs : Kidney
Assessment : May cause 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

maleic anhydride:

Species	:	Rat, male
NOAEL	:	40 mg/kg
Application Route	:	Oral
Exposure time	:	90-day
Species	:	Rat, male
LOAEL	:	100 mg/kg
Application Route	:	Oral
Exposure time	:	90-day
Species	:	Rat, male and female
NOAEL	:	10 mg/kg
Application Route	:	Oral
Exposure time	:	2 yr
Species	:	Rat, male and female
LOAEL	:	32 mg/kg
Application Route	:	Oral
Exposure time	:	2 yr
Species	:	Rat, male and female
NOAEL	:	0,0033 mg/l
Application Route	:	inhalation (vapour)
Exposure time	:	132 - 136 d
Species	:	Rat, male and female
LOAEL	:	0,0098 mg/l
Application Route	:	inhalation (vapour)
Exposure time	:	132 - 136 d

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Species : Rat, male and female
LOAEL : 0,0011 mg/l
Application Route : inhalation (vapour)
Exposure time : 132 - 136 d
Symptoms : Local irritation

Species : Hamster, male and female
NOAEL : 0,0098 mg/l
Application Route : inhalation (vapour)
Exposure time : 132 - 136 d

Species : Hamster, male and female
LOAEL : 0,0011 mg/l
Application Route : inhalation (vapour)
Exposure time : 132 - 136 d
Symptoms : Local irritation

Species : Monkey, male and female
NOAEL : 0,0098 mg/l
Application Route : inhalation (vapour)
Exposure time : 132 - 136 d

Species : Monkey, male and female
LOAEL : 0,0011 mg/l
Application Route : inhalation (vapour)
Exposure time : 132 - 136 d
Symptoms : Local irritation

Aspiration toxicity

Not classified based on available information.

Components:

Styrene:

May be fatal if swallowed and enters airways.

11.2 Information on other hazards

Endocrine disrupting properties

Product:

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

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levels of 0.1% or higher.

Further information

Product:

Remarks : Solvents may degrease the skin.

SECTION 12: Ecological information

12.1 Toxicity

Components:

methyl methacrylate:

Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 130 mg/l Exposure time: 96 h Method: static test
		LC50 (Oncorhynchus mykiss (rainbow trout)): > 79 mg/l Exposure time: 96 h Test Type: flow-through test
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 69 mg/l Exposure time: 48 h Test Type: flow-through test
Toxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapitata (algae)): > 110 mg/l Exposure time: 72 h Test Type: static test
Toxicity to fish (Chronic toxicity)	:	LC50: 33,7 mg/l Exposure time: 35 d Species: Danio rerio (zebra fish) Test Type: flow-through test Method: OECD Test Guideline 210
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC: 37 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Test Type: flow-through test Method: OECD Test Guideline 211

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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

triethyl phosphate:

- Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l
Exposure time: 96 h
Method: static test
Remarks: mortality
- Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia magna (Water flea)): > 100 mg/l
Exposure time: 96 h
Method: Static
Remarks: mortality

cobalt bis(2-ethylhexanoate):

- M-Factor (Acute aquatic toxicity) : 1

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Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

maleic anhydride:

Toxicity to fish : LC50 (Fish): 75 mg/l
Exposure time: 96 h
Method: static test
Remarks: mortality

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 43 mg/l
Exposure time: 48 h
Test Type: static test

Toxicity to algae/aquatic plants : EC10 (Pseudokirchneriella subcapitata (green algae)): 12 mg/l
Exposure time: 72 h
Test Type: Growth inhibition

EC50 (Pseudokirchneriella subcapitata (green algae)): 74 mg/l
Exposure time: 72 h
Test Type: Growth inhibition

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 10 mg/l
End point: Reproduction Test
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Test Type: semi-static test

12.2 Persistence and degradability

Components:

methyl methacrylate:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 94,3 %
Exposure time: 14 d
Method: OECD Test Guideline 301C

Styrene:

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

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cobalt bis(2-ethylhexanoate):

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

maleic anhydride:

Biodegradability : Test Type: aerobic
Inoculum: activated sludge
Result: Readily biodegradable.
Biodegradation: 81 %
Exposure time: 28 d
Method: OECD Test Guideline 301E

12.3 Bioaccumulative potential

Components:

methyl methacrylate:

Partition coefficient: n-octanol/water : log Pow: 1,38

Styrene:

Bioaccumulation : Bioconcentration factor (BCF): < 100

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

triethyl phosphate:

Partition coefficient: n-octanol/water : log Pow: 0,80

maleic anhydride:

Partition coefficient: n-octanol/water : Remarks: Not applicable

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12.4 Mobility in soil

Components:

Styrene:

Distribution among : Koc: 352
environmental compartments

12.5 Results of PBT and vPvB assessment

Product:

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

Components:

methyl methacrylate:

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

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

maleic anhydride:

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

12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according

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to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Harmful 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

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

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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: II

ADR: II

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: II

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: II

INTERNATIONAL MARITIME DANGEROUS GOODS: II

RID: II

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 IMO instruments

Ship Type: Not applicable

Hazard code(s): Not applicable

Pollutant Category: Not applicable

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

SECTION 15: Regulatory information

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

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	: Not applicable
REACH - List of substances subject to authorisation (Annex XIV)	: Not applicable
Regulation (EC) on substances that deplete the ozone layer	: Not applicable
Regulation (EC) No 850/2004 on persistent organic pollutants	: Not applicable
Regulation (EU) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals	: Not applicable
REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	: Conditions of restriction for the following entries should be considered: (75, 3) methyl methacrylate Styrene cobalt bis(2-ethylhexanoate) (30) xylene Turpentine, oil Hydroquinone (29, 28) 4-tert-butylpyrocatechol octamethylcyclotetrasiloxane (70, 30) 2-methoxypropyl acetate

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(30)

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

P5c	FLAMMABLE LIQUIDS	Quantity 1 5.000 t	Quantity 2 50.000 t
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General Assessment Methodology (GAM)

Aquatic harmfulness : B3 Hazardous for aquatic organisms.

Abatement effort : B Readily biodegradable aquatic harmful substances.

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.

Contains a substance which is subject to the SZW-list of reproductive toxic substances (Ministry of Social Affairs and Employment). styrene2-ethylhexanoic acid and its saltsxylene

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

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 Low volume exemption

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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

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Classification procedure:

H225	Highly flammable liquid and vapour.	Based on product data or assessment
H315	Causes skin irritation.	Calculation method
H319	Causes serious eye irritation.	Calculation method
H317	May cause an allergic skin reaction.	Calculation method
H361d	Suspected of damaging the unborn child.	Calculation method
H373	May cause damage to organs through prolonged or repeated exposure.	Calculation method

Full text of H-Statements

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
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.

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H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H360D	May damage 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.
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 ALTA's Environmental Health and Safety Department (+34 93 206 51 20 (in Spain)).

Sources of key data used to compile the Safety Data Sheet
ALTA 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

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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

NL / EN