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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 : Derakane Momentum™ 411-200

epoxy vinyl ester resin

™ Trademark, ALTA its subsidiaries, registered in various

countries

UFI: TUN1-10K8-V001-MDPS

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)

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

sds.composites@altapm.com

Product Information

+34 93 206 51 20 (in Spain)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 3 H226: Flammable liquid and vapour.

Skin irritation, Category 2 H315: Causes skin irritation.

Eye irritation, Category 2 H319: Causes serious eye irritation.

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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

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

Long-term (chronic) aquatic hazard, Category 3

H412: Harmful to aquatic life with long lasting

effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms







Signal word Danger

Hazard statements H226 Flammable liquid and vapour.

H315 Causes skin irritation.

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

H361d Suspected of damaging the unborn child. H372 Causes damage to organs through prolonged or

repeated exposure.

H412 Harmful to aquatic life with long lasting effects.

Prevention: Precautionary statements

> 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

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alcohol-resistant foam to extinguish.

Hazardous components which must be listed on the label:

Styrene

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)
Styrene	100-42-5 202-851-5 601-026-00-0 01-2119457861-32- xxxx	Flam. Liq. 3; H226 Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Repr. 2; H361d STOT SE 3; H335 (Respiratory system) STOT RE 1; H372 (hearing organs) Asp. Tox. 1; H304 Aquatic Chronic 3; H412	>= 40 - < 50
methacrylic acid	79-41-4	Acute Tox. 4; H302	>= 0,5 - < 1

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	201-204-4 607-088-00-5 01-2119463884-26- xxxx	Acute Tox. 4; H332 Acute Tox. 3; H311 Skin Corr. 1A; H314 Eye Dam. 1; H318 STOT SE 3; H335 (Respiratory system) ——— specific concentration limit STOT SE 3; H335 >= 1 %	
--	--	---	--

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

unwell.

Keep patient warm and at rest.

If unconscious, place in recovery position and seek medical

advice.

In case of skin contact : Remove contaminated clothing. If irritation develops, get

medical attention.

If on skin, rinse well with water.

Wash contaminated clothing before re-use.

If on clothes, remove clothes.

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

Remove contact lenses. Protect unharmed eye.

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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)

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

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

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

Burning produces noxious and toxic fumes.

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 : Do not use a solid water stream as it may scatter and spread

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

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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 : 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.

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

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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.

: Handle in accordance with good industrial hygiene and safety Hygiene measures

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

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

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

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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/IIntermittent 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

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.

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.

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

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state liquid

Colour light yellow

Odour aromatic

Odour Threshold No data available

Melting point/freezing point No data available

145 °C Boiling point/boiling range

Value for Component

Flammability May form combustible dust concentrations in air (during

processing).

Upper explosion limit / Upper

flammability limit

Upper flammability limit

6,1 %(V)

Value for Component

Lower explosion limit / Lower : Lower flammability limit

flammability limit

1,1 %(V)

Value for Component

29,4 °C Flash point

Method: ASTM D 56

Decomposition temperature No data available

рΗ Not applicable

Viscosity

Viscosity, dynamic No data available

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

Solubility(ies)

Water solubility : insoluble

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Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

: No data available

Vapour pressure : 6,67 hPa (20 °C)

Value for Component

Relative density : No data available

Density : 1,03 g/cm3 (68,00 °F)

Relative vapour density : > 1

(Air = 1.0)

9.2 Other information

Oxidizing properties : No data available

Self-ignition : 914 °F

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

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Conditions to avoid : excessive heat

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 Oxidizing agents Peroxides

10.6 Hazardous decomposition products

Hazardous decomposition

products

: Carbon monoxide Carbon dioxide (CO2)

Hydrocarbons Acetone

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Information on likely routes of : Inhalation

exposure Skin contact Eve Contact

Eye Contact Ingestion

Acute toxicity

Not classified based on available information.

Product:

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l

Exposure time: 4 h
Test atmosphere: vapour

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Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 2.000 mg/kg

Method: Calculation method

Components:

Styrene:

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

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

Exposure time: 4 h
Test atmosphere: vapour

No observed adverse effect level (Humans): 100 ppm

Exposure time: 7 h
Test atmosphere: vapour

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

Method: OECD Test Guideline 402

Assessment: The substance or mixture has no acute dermal

toxicity

methacrylic acid:

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

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

Acute inhalation toxicity : LC50 (Rat): 7,1 mg/l

Exposure time: 4 h
Test atmosphere: vapour

Method: OECD Test Guideline 403

Assessment: The component/mixture is classified as acute inhalation toxicity, category 4., The component/mixture is

moderately toxic after short term inhalation.

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

Skin corrosion/irritation

Causes skin irritation.

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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

methacrylic acid:

Method : OECD Test Guideline 404

Result : Corrosive after 3 minutes or less 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:

Styrene:

Result : Irritating to eyes.

Remarks : Vapour during processing may be irritating to the respiratory

tract and to the eyes.

methacrylic acid:

Result : Corrosive

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

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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

methacrylic acid:

Test Type : Buehler Test Species : Guinea pig

Assessment : Did not cause sensitisation on laboratory animals.

Method : OECD Test Guideline 406

Germ cell mutagenicity

Not classified based on available information.

Components:

methacrylic acid:

Genotoxicity in vitro : Test Type: Ames test

Method: OECD Test Guideline 471

Result: negative

Test Type: Chromosome aberration test in vitro

Method: OECD Test Guideline 487

Result: negative

Genotoxicity in vivo : Test Type: Mammalian bone marrow sister chromatid

exchange

Species: Rat (male)
Cell type: Bone marrow

Method: OECD Test Guideline 475

Result: negative

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Species: Mouse (male)

Method: OECD Test Guideline 478

Result: negative

Test Type: Micronucleus test Species: Mouse (male)

Cell type: peripheral blood cells Method: OECD Test Guideline 474

Result: negative

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.

methacrylic acid:

Effects on fertility : Species: Rat

Application Route: Oral

Fertility: NOAEL Mating/Fertility: 400 mg/kg body weight Symptoms: No effects on fertility, No effects on reproduction

parameters

Method: OECD Test Guideline 416

Effects on foetal : Species: Rabbit

development Application Route: Oral

Developmental Toxicity: NOAEL F1: 450 mg/kg body weight

Symptoms: No specific developmental abnormalities

Method: OECD Test Guideline 414

STOT - single exposure

May cause respiratory irritation.

Components:

Styrene:

Assessment : May cause respiratory irritation.

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methacrylic acid:

: Inhalation : Respiratory Tract Exposure routes Target Organs

Assessment : May cause respiratory irritation.

STOT - repeated exposure

Causes damage to organs through prolonged or repeated exposure.

Components:

Styrene:

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

exposure.

Repeated dose toxicity

Components:

Styrene:

Species : Human : 20 mg/l

Application Route Target Organs : inhalation (vapour)

: Auditory system (hearing)

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

methacrylic acid:

: Rat, male and female **Species**

Rat, male and female

352 mg/m3

Application Route

Exposure time

Control Group

Rat, male and female

inhalation (dust/mist/fume)

90 Days Control Group : yes

: Local irritation, Reduced body weight **Symptoms**

Aspiration toxicity

Not classified based on available information.

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Components:

Styrene:

May be fatal if swallowed and enters airways.

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment The substance/mixture does not contain components

> considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

Further information

Product:

Remarks Solvents may degrease the skin.

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

aquatic invertebrates

Toxicity to daphnia and other : 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

Exposure time: 72 h

EC10 (Pseudokirchneriella subcapitata (green algae)): 0,28

mg/l

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Exposure time: 96 h

Toxicity to microorganisms : EC50 (activated sludge): ca. 500 mg/l

Exposure time: 0,5 h

Toxicity to daphnia and other : NOEC: 1,01 mg/l

aquatic invertebrates

(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

methacrylic acid:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 85 mg/l

Exposure time: 96 h

Test Type: flow-through test

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 130 mg/l

Exposure time: 48 h

Test Type: flow-through test

Toxicity to algae/aquatic

plants

: EC50 (Pseudokirchneriella subcapitata (green algae)): 20 mg/l

End point: Biomass Exposure time: 72 h

Test Type: flow-through test Method: OECD Test Guideline 201

Toxicity to fish (Chronic

toxicity)

: NOEC: 10 mg/l

Exposure time: 35 d

Species: Danio rerio (zebra fish)
Test Type: flow-through test
Method: OECD Test Guideline 210

Toxicity to daphnia and other :

aquatic invertebrates (Chronic toxicity)

NOEC: 53 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea)

Test Type: flow-through test Method: OECD Test Guideline 211

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12.2 Persistence and degradability

Components:

Styrene:

Biodegradability : Result: Readily biodegradable.

Biodegradation: > 60 % Exposure time: 10 d

methacrylic acid:

Biodegradability : Inoculum: activated sludge

Result: Readily biodegradable.

Biodegradation: 87 % Exposure time: 28 d

12.3 Bioaccumulative potential

Components:

Styrene:

Bioaccumulation : Bioconcentration factor (BCF): < 100

Partition coefficient: n-

octanol/water

log Pow: 2,96 (25 °C)

methacrylic acid:

Bioaccumulation : Bioconcentration factor (BCF): 1,0

Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-

octanol/water

: log Pow: 0,93

12.4 Mobility in soil

Components:

Styrene:

Distribution among : Koc: 352

environmental compartments

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12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered

to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

0.1% or higher.

Components:

Styrene:

Assessment : Substance is not persistent, bioaccumulative, and toxic

(PBT).. Substance is not very persistent and very

bioaccumulative (vPvB).

methacrylic acid:

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 to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

12.7 Other adverse effects

Product:

Additional ecological

information

: An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Toxic to aquatic life.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

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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

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

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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 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

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

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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)Styrene

4-tert-butylpyrocatechol

toluene (48)

2,2' -Oxybisethanol

benzene (72, 5, 29, 28)

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

P₅c FLAMMABLE LIQUIDS 5.000 t 50.000 t

General Assessment Methodology (GAM)

Aquatic harmfulness B2 Toxic for aquatic organisms.

Abatement effort Readily biodegradable aquatic harmful substances. В

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).

styrene

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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

AllC On the inventory, or in compliance with the inventory

DSL This product contains one or several components that are not

on the Canadian DSL and have annual quantity limits.

ENCS Not in compliance with the inventory

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)

15.2 Chemical safety assessment

No data available

SECTION 16: Other information

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Classification procedure:

Flammable liquid and vapour.	Based on product data or assessment
Causes skin irritation.	Calculation method
Causes serious eye irritation.	Calculation method
Suspected of damaging the unborn child.	Calculation method
May cause respiratory irritation.	Calculation method
Causes damage to organs through prolonged or repeated exposure.	Calculation method
Harmful to aquatic life with long lasting effects.	Calculation method
	Causes skin irritation. Causes serious eye irritation. Suspected of damaging the unborn child. May cause respiratory irritation. Causes damage to organs through prolonged or repeated exposure. Harmful to aquatic life with long

Full text of H-Statements

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H361d	Suspected of damaging the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
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

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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

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

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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