

POLYESTER ISOPHTHALIC RESIN

Product Name:	Polyester Isophthalic Resin
	1570446 Rev. 0
Revision Date:	03-Sep-2024
	According to Regulation (EC) No. 1907/2006

Identification of the substance/mixture and of the company/undertaking

1.1. Product Identifier

Product Name: Polyester Isophthalic Resin

Product Description: Modified styrenic solution of the condensation

product of polycarboxylic acids / acid anhydrides

with a mixture of polyhydric alcohols.

Pure Substance/Mixture: Mixture

1.2. Product relevant identified uses of the substance or mixture and uses advised against

Main use category: Industrial use, Professional use

Industrial/Professional use spec: Production of mixtures, resin compositions,

mineral-resin compositions, articles

reinforced with fibre glass



1.3. Details of the supplier of the safety data sheet

Tricel Composites (GB) Limited Tricel Composites (NI) Limited

Unit A, Foxway, Unit 4, Milltown Ind. Estate, Greenan

Off Atkinson Street, Road. Warrenpoint, Newry

Leeds, West Yorkshire, Co. Down,

LS10 1PS. BT34 3FN.

Tel: +44 (0)113 270 3133 Tel: +44 (0)284 175 3738

1.4. Emergency Telephone Number

Emergency medical information: 8am-10pm (seven days) contact National Poisons

Information Centre, Beaumont Hospital, Dublin 9 DOV2NO, Ireland.

Telephone Number: +353 (0)1 809 2166

Leeds:	Newry:
Tel: +44 (0)113 270 3133	Tel: +44 (0)284 175 3738

1.4.1. Poison Information Centre Telephone Number

European emergency phone number: 112

UK: National Poisons Emergency Number: 0344 892 0111

Ireland: National Poisons Information Centre (NPIC) Telephone Healthcare

Professionals: +353 (01) 809 2566. (24 hour service) Telephone Members of

Public: +353 (01) 809 2166. (8.00 a.m. to 10.00 p.m. 7 days a week)



2. Hazards Identification

2.1. Classification of the substance or mixture

Classification of the substance or mixture - GHS/CLP (n° 1272/2008)

	T
Flam. Liq. 3	H226
Skin Irrit. 2	H315
Eye Irrit. 2	H319
Lyenni. 2	11010
Skin Sens. 1	H317
Repr. 2	H361d
STOT SE 3	H335
5151525	
OTOTOS!	11070
STOT RE 1	H372
Aquatic Chronic 3	H412
L	l .

Full text of hazard classes, H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

Flammable liquid and vapour. Suspected of damaging the unborn child. Causes damage to organs (hearing organs) through prolonged or repeated exposure (inhalation). May cause respiratory irritation. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation.

Harmful to aquatic life with long lasting effects.

2.2. Label elements









Signal Word: Danger

Contains: α -methylstyrene; maleic anhydride; styrene

2.2.1. Hazard Statements (CLP)

H226 - Flammable liquid and vapour.

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

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 (inhalation).

H412 - Harmful to aquatic life with long lasting effects.

2.2.2. Precautionary Statements (CLP)

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P261 - Avoid breathing spray, vapours.

P280 - Wear protective gloves, protective clothing, eye protection, face protection.

P302+P352 - IF ON SKIN: Wash with plenty of soap and water.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P273 - Avoid release to the environment.

2.3. Other Hazards

Other hazards which do not result in classification:

Vapour could form explosive mixture with air. The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in



Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1%.

The product does not meet the PBT and vPvB classification criteria

3. Composition/Information on Ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
styrene	(CAS-No.)100-42-5	30 – 50	Flam. Liq. 3, H226
	(EC-No.) 202-851-5		Acute Tox. 4
	(ECIndex-No.) 601-026-00-0		(Inhalation), H332 Skin
	(REACH-no) 01-2119457861-32- XXXX		Irrit. 2, H315
			Eye Irrit. 2, H319 Repr. 2,
			H361d STOT SE 3, H335
			STOT RE1, H372 Asp.
			Tox. 1, H304
			Aquatic Chronic 3, H412
α-methylstyrene	(CAS-No.) 98-83-9	0 - 2	Flam. Liq. 3, H226 Eye
substance with a Community work place exposure	(EC-No.) 202-705-0		Irrit. 2, H319 Skin Sens. 1,
limit	(ECIndex-No.) 601-027-00-6		H317 Repr. 2, H361 STOT
	(REACH-no) 01-2119472426-35- XXXX		SE 3, H335 Asp. Tox. 1,
			H304
			Aquatic Chronic 2, H411
maleic anhydride	(CAS-No.)108-31-6	≤ 0,02	Acute Tox. 4 (Oral),
	(EC-No.) 203-571-6		H302 Skin Corr. 1B, H314
	(ECIndex-No.) 607-096-00-9		Eye Dam. 1, H318 Resp.
	(REACH-no) 01-2119472428-31- XXXX		Sens. 1, H334 Skin Sens.
			1A, H317 STOT RE 1, H372

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Specific concentration limits:			
Name	Product identifier	Specific concentration limits	
α-methylstyrene	(CAS-No.) 98-83-9 (EC-No.) 202-705-0 (ECIndex-No.) 601-027-00-6 (REACH-no) 01-2119472426-35- XXXX	(25 ≤ C ≤ 100) STOT SE 3; H335	
maleic anhydride	(CAS-No.) 108-31-6 (EC-No.) 203-571-6 (EC Index-No.) 607-096-00-9 (REACH-no) 01-2119472428-31- XXXX	(0,001 ≤ C ≤ 100) Skin Sens. 1A; H317	

4. First Aid Measures

4.1. Description of First Aid Measures

First-aid measures general: IF exposed or concerned: Get medical

advice/attention.

First-aid measures after inhalation: Remove person to fresh air and keep

comfortable for breathing. Call a poison

center or a doctor if you feel unwell.

First-aid measures after skin contact: Rinse skin with water/shower. Take off

immediately all contaminated clothing. If

skin irritation or rash occurs: Get medical

advice/attention.

First-aid measures after eye contact: Rinse cautiously with water for several

minutes. Remove contact lenses, if present

and easy to do. Continue rinsing. If eye

irritation persists: Get medical

advice/attention.

First-aid measures after ingestion: Call a poison center or a doctor if you feel

unwell.



4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation: May cause respiratory irritation.

Symptoms/effects after skin contact: Irritation. May cause an allergic skin

reaction.

Symptoms/effects after eye contact: Eye irritation.

4.3. Indication of any immediate medical attention and special treatment

The decision on how to proceed with the rescue should be made by the doctor after careful assessment of the victim's condition. In case of severe poisoning, measures to prevent liver damage should be given; control the function of the heart and circulatory system. There is no antidote. Treat symptomatically.

5. Firefighting Measures

5.1. Extinguishing media

Suitable extinguishing media: Water spray. Dry powder. Foam. Carbon

dioxide.

Unsuitable extinguishing media: Do not use a heavy water stream.

5.2. Special Hazards arising from substance or mixture

Fire hazard: Flammable liquid and vapour.

Hazardous decomposition products in case of fire: During combustion, hazardous

vapors and gases containing thermal decomposition

products, carbon oxides and soot may be formed. Avoid



inhalation of combustion products, they may be hazardous to health

5.3. Advice for Firefighters

Protection during firefighting: General protection measures typical in

case of fire. Do not stay in the fire zone without appropriate clothing. Recommended personal protective equipment for emergency services: full protective suit, self-contained breathing apparatus.

Proceed with firefighting waters as in subsection 6.2. and

6. Accidental Release Measures

6.3.

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Protective equipment: See Section 8. For further information refer to section

8: "Exposure controls/personal protection". Wear recommended personal protective equipment.

Emergency procedures: Ventilate spillage area. No open flames, no sparks,

and no smoking. Do not breathe vapours, spray.

Avoid contact with skin and eyes.

For emergency responders

Protective equipment: For further information refer to section 8: "Exposure

controls/personal protection".



6.2. Environmental Precautions

Avoid release to the environment. Avoid the formation of vapors. In case of spillage, steps should be taken to prevent it from spreading into the environment – prevent it from reaching sewage systems, water reservoirs, rivers, groundwater and soil. Do not use open fire, avoid sparks, eliminate ignition sources. Notify the appropriate emergency services. Warn others about the danger. Similar precautions should also be taken in the event of fire water.

6.3. Methods and Material for Containment and Cleaning Up

For containment: Mark out the contaminated area with signs and

prevent access to unauthorized personnel.

Methods for cleaning up: Take up liquid spill into absorbent material. Notify

authorities if product enters sewers or public waters.

Other information: Proceed in accordance with the Environmental

Protection Law and the Waste Act. Dispose of

materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

7. Handling and Storage

7.1. Precautions for safe handling

Precautions for safe handling: Keep away from heat, hot surfaces, sparks, open

flames and other ignition sources. No smoking. Use

only non-sparking tools. Take precautionary



measures against static discharge. Use explosion-

proof equipment. Wear personal protective

equipment. Obtain special instructions before use.

Do not handle until all safety precautions have been

read and understood. Do not breathe vapours,

spray. Use only outdoors or in a well-ventilated area.

Avoid contact with skin and eyes.

Hygiene measures: Wash contaminated clothing before reuse.

Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after

handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a well-ventilated place. Keep cool. Keep

container tightly closed. Store locked up.

Storage temperature: ≤ 25 °C

7.3. Specific end use(s)

See Section 1.

8. Exposure Controls/Personal Protection

8.1. Exposure Controls

8.1.1. Appropriate Engineering Controls

Appropriate engineering controls:



Ensure adequate ventilation in confined areas. If ventilation is not sufficient, to keep vapour concentrations below the limit values use the appropriate respiratory protection. Personal protection equipment should be selected on the basis of substance concentrations at individual work stations, exposure time, operator functions and recommendations indicated by the supplier of the equipment. In explosion-risk areas, wear clothes, gloves and boots with electrostatic discharge protection function. Procedures for monitoring concentrations of hazardous components in the air and procedures for air cleanliness in the workplace should be applied – as long as they are available and justified at the workplace – in accordance with the relevant reference methods – standards in force in Poland. The mode, type and frequency of tests and measurements should meet the requirements of the Regulation of the Minister of Health of February 2, 2011 on tests and measurements of factors harmful to health in the work environment (Journal of Laws No. 33 item 166, as amended).

8.1.2. Personal protection equipment

Personal protective equipment symbol(s):









8.1.3. Eye and face protection

Eye protection:			
Safety glasses			
Туре	Field of application	Characteristics	Standard
Safety goggles, Face	Droplet	clear	EN ISO 16321-1
shield			



8.1.4. Skin protection

Skin and body protection:					
Wear suitab	ole protective clothing	l			
Hand proted	otion:				
Protective g	loves				
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Protective	Butyl rubber,	6 (> 480 minutes)	> 0,4 mm	3 (> 0.65)	EN ISO
gloves	Polyvinylchloride				374-1, EN
	(PVC),				ISO 21420
	Polyvinylalcohol				
	(PVA)				

Other skin protection		
Materials for protective cloth	ning:	
Use protective clothing. Safe	ety foot-wear	
Condition	Material	Standard
Indoor or outdoor use	Antistatic clothing, antistatic boots	EN ISO 13688, EN 14605, EN ISO 20346

8.1.5. Respiratory protection

Respiratory protection:	
In case of insufficient ventilation, wear suitable respiratory equipment	

Device	Filter type	Condition	Standard
Full face mask	ABEK	Vapour protection, Protection	EN 143, EN 149, EN 136
		for Liquid particles, If conc. in	
		air > exposure limit	



Reusable half mask	Туре Р2	Vapour protection, Short term	EN 143, EN 149
		exposure	

8.1.6. Thermal hazards

No additional information available

8.1.7. Environmental exposure controls

Environmental exposure controls:

In order to reduce the impact on the environment and human health, the recommendations contained in this safety data sheet should be followed. When carrying out operations with the product at elevated temperatures, use efficient ventilation systems equipped with devices preventing the emission of gases into the atmospheric air. Do not contaminate water with the product or its packaging. Prevent the product or its packaging from getting into the sewage system, water reservoirs, rivers, groundwater and soil. It is forbidden to recover or dispose of the product, packaging and packaging waste outside of the installations or devices intended for this purpose, meeting the requirements specified in the provisions of the Act on waste. Avoid release to the environment.

8.1.8. Other Information

in accordance with good industrial hygiene and safety procedures.

9. Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid



Colour : Various colours.

Odour : characteristic. Sweet. Aromatic.

Odour threshold : 0,1 ppm (for styrene)

Melting point : Not applicable

Freezing point : -31 °C (for styrene)

Boiling point : 143 °C

Flammability : Flammable liquid and vapour.

Explosive properties : Non-explosive.

Oxidising properties : Does not apply.

Explosive limits : Not available

Lower explosion limit : Not available

Upper explosion limit : Not available

Flash point : 33 °C

Auto-ignition temperature : 480 °C

Decomposition temperature : Not available

pH : Not available

Viscosity, kinematic :> 90 mm²/s (40°C)

Viscosity, dynamic : 190 - 1100 mPa·s (25°C)

Solubility : Soluble in acetone. Soluble in ethanol.

Partition coefficient n-octanol/water (Log Kow) : Not available

Partition coefficient n-octanol/water (Log Pow) : 2,95 (for styrene)

Vapour pressure : 8 kPa (50°C)

Vapour pressure at 50°C : Not available

Density : 1120 kg/m³ (25°C)

Relative density : Not available

Relative vapour density at 20°C : Not available

Particle size : Not applicable

Particle size distribution : Not applicable

Particle shape : Not applicable

Particle aspect ratio : Not applicable

Particle aggregation state : Not applicable



Particle agglomeration state : Not applicable

Particle specific surface area : Not applicable

Particle dustiness : Not applicable

9.2. Other Information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

Attempt to separate the solvent (height of the separated layer):

<3% For mixtures: : Polimal 122-1, Polimal 122-2, Polimal 1222, Polimal 122-2 U, Polimal 122-2 LP, Polimal 122-20, Polimal 122-20 P, Polimal 122-21, Polimal 122-21 AWTP, Polimal 122-22, Polimal 122-24, Polimal 122-25 TP, Polimal 122-26 X, Polimal 122-2 T, Polimal 122-2 P, Polimal 122-2 TP, Polimal 122-2 TP-2, Polimal 122-2 A, Polimal 122-2 AP, Polimal 122-2 AT, Polimal 122-2 ATP, Polimal 122-2 WTP, Polimal 122-2 WTP-2, Polimal 122-2 WTP-2, Polimal 122-2 KWTP, Polimal 122-28.</p>

Flow time from flow cup (ISO 2431:1993):

> 40 s (ø=6mm) For mixtures: : Polimal 122-1, Polimal 122-2, Polimal 1222, Polimal 122-2 U, Polimal 122-2 LP, Polimal 122-20, Polimal 122-20 P, Polimal 122-21, Polimal 122-21 AWTP, Polimal 122-22, Polimal 122-24, Polimal 122-25 TP, Polimal 122-26 X, Polimal 122-2 T, Polimal 122-2 P, Polimal 122-2 TP, Polimal 122-2 TP-2, Polimal 122-2 A, Polimal 122-2 AP, Polimal 122-2 AT, Polimal 122-2 ATP, Polimal 122-2 WTP, Polimal 122-2 WTP-2, Polimal 122-2 WTPS, Polimal 122-2 AWTP, Polimal 122-2 AWTP, Polimal 122-2 KWTP, Polimal 122-28



10. Stability and Reactivity

10.1. Reactivity

It undergoes radical polymerization initiated with organic peroxides or under the influence of thermal and photochemical factors and sunlight. Polymerization can be violent.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

Strong acids, strong bases and strong oxidants. copper. Brass. Aluminium chloride.

10.6. Hazardous decomposition Products

Under normal conditions of storage and use, hazardous decomposition products should not be produced

11. Toxicological Information

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



Acute toxicity (oral) : Not classified

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

α -methylstyrene (98-83-9)	
LD50 oral rat	≈ 4900 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: other:
LD50 dermal rabbit	≈ 14560 mg/kg bodyweight Animal: rabbit, Animal sex: male, Guideline: other:

maleic anhydride (108-31-6)	
LD50 dermal rabbit	2620 mg/kg bodyweight Animal: rabbit, Animal sex: female, Guideline:
	OECD Guideline 402 (Acute Dermal Toxicity)

styrene (100-42-5)	
LD50 oral	> 6000 mg/kg bodyweight Animal: hamster, Syrian, Animal sex: male
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402
	(Acute Dermal Toxicity)
LC50 Inhalation - Rat (Vapours)	11,8 mg/I/4h

Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitisation : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Suspected of damaging the unborn child.

STOT-single exposure : May cause respiratory irritation.

α-methylstyrene (98-83-9)	
STOT-single exposure	May cause respiratory irritation.

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styrene (100-42-5)	
STOT-single exposure	May cause respiratory irritation.

STOT-repeated exposure : Causes damage to organs (hearing organs) through prolonged or repeated exposure

(inhalation).

α-methylstyrene (98-83-9)	
LOAEL (oral, rat, 90 days)	200 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
NOAEC (inhalation, rat, gas, 90 days)	300 ppm Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90- Day Study)

maleic anhydride (108-31-6)	
NOAEL (oral, rat, 90 days)	≈ 10 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 452 (Chronic Toxicity Studies)
NOAEC (inhalation, rat, vapour, 90 days)	≈ 0,0033 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study)
STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure.

styrene (100-42-5)	
LOAEL (oral, rat, 90 days)	2000 mg/kg bodyweight Animal: rat
LOAEC (inhalation, rat, vapour, 90 days)	0,21 mg/l air Animal: rat, Guideline: OECD Guideline 453 (Combined
	Chronic Toxicity / Carcinogenicity Studies)
NOAEL (oral, rat, 90 days)	1000 mg/kg bodyweight Animal: rat
NOAEL (subchronic, oral, animal/male, 90 days)	10 mg/kg bodyweight Animal: mouse, Animal sex: male
STOT-repeated exposure	Causes damage to organs (hearing organs) through prolonged or repeated exposure.

Aspiration hazard : Not classified



POLIMAL® 122-1 POLIMAL® 122-2 and series	
Viscosity, kinematic	> 90 mm²/s (40°C)

11.2. Information on Other Hazards

11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties

11.2.2. Other information

12. Ecological Information

12.1. Toxicity

Ecology - general: Harmful to aquatic life with long lasting effects.

Hazardous to the aquatic environment, short-term (acute): Not classified

Hazardous to the aquatic environment, long-term (chronic): Harmful to aquatic life

with long lasting effects.

Not rapidly degradable

α -methylstyrene (98-83-9)	
	2,97 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 - Crustacea [1]	1645 mg/l Test organisms (species): Daphnia magna
NOEC (chronic)	0,401 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

maleic anhydride (108-31-6)	
LC50 - Fish [1]	75 mg/l Test organisms (species): Lepomis macrochirus
LC50 - Fish [2]	75 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	330 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	> 150 mg/l Test organisms (species): Pseudokirchneriella



subcapitata (previous names: Raphidocelis subcapitata,
Selenastrum capricornutum)

styrene (100-42-5)	
LC50 - Fish [1]	10 mg/l Test organisms (species): Pimephales promelas
EC50 - Crustacea [1]	4,7 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	4,9 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 96h - Algae [1]	6,3 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
LOEC (chronic)	2,06 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	1,01 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

12.2. Persistence and degradability

α -methylstyrene (98-83-9)	
Persistence and degradability	Not readily biodegradable.

maleic anhydride (108-31-6)	
Persistence and degradability	Readily biodegradable.

styrene (100-42-5)		
Persistence and degradability	Readily biodegradable.	
Biochemical oxygen demand (BOD)	1,96 g O₂/g substance	
Chemical oxygen demand (COD)	2,8 g O ₂ /g substance	
Biodegradation	70,9%	

12.3. Bioaccumulative potential

POLIMAL® 122-1 POLIMAL® 122-2 and series	
Partition coefficient n-octanol/water (Log Pow)	2,95 (for styrene)



α-methylstyrene (98-83-9)		
Bioaccumulative potential	Bioaccumulation unlikely.	
maleic anhydride (108-31-6)		
Bioaccumulative potential No bioaccumulation data available.		
styrene (100-42-5)		
Partition coefficient n-octanol/water (Log	2,95	
Pow)		
Bioaccumulative potential	Potential to bioaccumulate is low.	

12.4. Mobility in soil

α-methylstyrene (98-83-9)	
Ecology - soil	moderately.

maleic anhydride (108-31-6)	
Ecology - soil	No data available.

styrene (100-42-5)	
Organic Carbon Normalized Adsorption	352
Coefficient (Log Koc)	
Ecology - soil	moderately.

12.5. Results of PBT and vPvB

POLIMAL® 122-1 POLIMAL® 122-2 and series
The product does not meet the PBT and vPvB classification criteria



12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties: The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1%

12.7. Other Adverse Effects

No additional information available

13. Disposal Considerations

13.1. Waste Treatment Methods

Regional waste regulation:

Act of 14 December 2012 on waste (J.o.L. 2013, item 322 as amended; consolidated text J.o.L. 2020, item 797). Act of 13 June 2013 on the management of packaging and packaging waste (J.o.L. 2013, item 888 as amended; consolidated text J.o.L. 2020, item 1114). Regulation of the Minister of Climate of 2 January 2020 on the catalogue of waste (J.o. L 2020, article 10).

Waste treatment methods:

The holder of product waste and packaging waste is obliged to handle the waste in a manner consistent with the principles of waste management specified in the Act on the management of packaging and packaging waste, the Act on waste and environmental protection requirements. The resulting product waste and packaging waste should be stored, transported, collected and recovered, including



recycling or neutralization, in accordance with the provisions of the Act on waste and related regulations. Unused product as well as contaminated packaging should be sent to an entity authorized to collect hazardous waste. The waste classification should be applied, using the appropriate codes and names in accordance with the applicable waste catalog. The disposal of waste to soil and ground, sewage systems, rivers, water reservoirs is prohibited. Dispose of contents/container in accordance with licensed collector's sorting instructions.

14. Transport Information

ADR	IMDG	IATA	ADN	RID
14.1. UN	number or ID n	umber		
UN 1866	UN 1866	UN 1866	UN 1866	UN 1866
14.2. UN	proper shippin	g name		
RESIN SOLUTION	RESIN SOLUTION	Resinsolution	RESIN SOLUTION	RESIN SOLUTION
(flammable)	(flammable)	(flammable)	(flammable)	(flammable)
Transport document d	escription			
UN 1866 RESIN	UN 1866 RESIN	UN 1866 Resin	UN 1866 RESIN	UN 1866 RESIN
SOLUTION	SOLUTION (flammable),	solution	SOLUTION	SOLUTION
(flammable), 3, III,	3, III	(flammable), 3,	(flammable), 3, III	(flammable), 3, III
(D/E)		III		
14.3. Tra	nsport hazard	class(es)	,	
3	3	3	3	3
3	3	3	3	3
14.4. Pac	king group		,	
III	III	III	III	III
14.5. Env	vironmental ha	zards		
Dangerous for the	Dangerous for	Dangerous for the	Dangerous for the	Dangerous for the
environment: No	the environment	environment: No	environment:No	environment: No



	: No Marine		
	pollutant:No		
No supplementary info	rmation available		

14.6. Special precautions for user

ADR not applicable:

Mixtures:Polimal 122–1, Polimal 122–2, Polimal 1222, Polimal 122–2 U, Polimal 122–2 LP, Polimal 122–20, Polimal 122–20 P, Polimal 122–21, Polimal 122–21 AWTP, Polimal 122–22, Polimal 122–24, Polimal 122–25 TP, Polimal 122–26 X, Polimal 122–2 T, Polimal 122–2 P, Polimal 122–2 TP, Polimal 122–2 TP–2, Polimal 122–2 A, Polimal 122–2 AP, Polimal 122–2 AT, Polimal 122–2 ATP, Polimal 122–2 WTP, Polimal 122–2 WTP–2, Polimal 122–2 WTP–2, Polimal 122–2 WTPS, Polimal 122–2 AWTP, Polimal 122–2 AWTP, Polimal 122–2 KWTP, Polimal 122–28. packed in vessels with a capacity of not more than 450 litres are not subject to the ADR rules under clause 2.2.3.1.5 of the European ADR Agreement (see section 15.1 of this charter).

Overland transport

Transport regulations (ADR) : Transport in accordance with section

2.2.3.1.5 of the ADR (viscous substance) may

be applied

Classification code (ADR) : F1

Limited quantities (ADR) : 51

Excepted quantities (ADR) : E1

Packing instructions (ADR) : P001, IBC03, LP01, R001

Special packing provisions (ADR) : PP1

Mixed packing provisions (ADR) : MP19

Portable tank and bulk container

instructions (ADR) : T2

Portable tank and bulk container

special provisions (ADR) : TP1



Tank code (ADR) : LGBF

Vehicle for tank carriage : FL

Transport category (ADR) : 3

Special provisions for carriage - Packages (ADR) : V12 Special provisions for carriage - Operation (ADR) : S2

Hazard identification number (Kemler No.) : 30

Orange plates :

30 1866

Tunnel restriction code (ADR) : D/E

Transport by sea

Special provisions (IMDG) : 223, 955

Limited quantities (IMDG) : 5 L

Excepted quantities (IMDG) : E1

Packing instructions (IMDG) : P001, LP01

Special packing provisions (IMDG) : PP1

IBC packing instructions (IMDG) : IBC03

Tank instructions (IMDG) : T2

Tank special provisions (IMDG) : TP1

EmS-No. (Fire) : F-E

EmS-No. (Spillage) : S-E

Stowage category (IMDG) : A

Properties and observations (IMDG) : Miscibility with water depends upon the

composition.

Air transport

PCA Excepted quantities (IATA) : E1

PCA Limited quantities (IATA) : Y344

PCA limited quantity max net

quantity (IATA) : 10L



PCA packing instructions (IATA) : 355

PCA max net quantity (IATA) : 60L

CAO packing instructions (IATA) : 366

CAO max net quantity (IATA) : 220L

Special provisions (IATA) : A3

ERG code (IATA) : 3L

Inland waterway transport

Classification code (ADN) : F1
Limited quantities (ADN) : 5 L

Excepted quantities (ADN) : E1

Equipment required (ADN) : PP, EX, A

Ventilation (ADN) : VE01

Number of blue cones/lights (ADN) : 0

Rail transport

Classification code (RID) : F1
Limited quantities (RID) : 5L
Excepted quantities (RID) : E1

Packing instructions (RID) : P001, IBC03, LP01, R001

Special packing provisions (RID) : PP1

Mixed packing provisions (RID) : MP19

Portable tank and bulk container

instructions (RID) : T2

Portable tank and bulk container

special provisions (RID) : TP1
Tank codes for RID tanks (RID) : LGBF

Transport category (RID) : 3

Special provisions for carriage – Packages (RID) : W12

Colis express (express parcels) (RID) : CE4

Hazard identification number (RID) : 30



14.7. Maritime transport in bulk according to IMO instruments

Not applicable

15. Regulatory Information

15.1. Safety, Health And Environmental Regulations / Legislation Specific For The Substance Or Mixture

15.1.1. EU-Regulations

Listed on REACH A	, ,	
Reference code	Applicable on	Entry title or description
3(a)	POLIMAL® 122-1 POLIMAL® 122-2 and	Substances or mixtures fulfilling the criteria for any of the following
	series ; α -methylstyrene ; styrene	hazard classes or categories set out in Annex I to Regulation (EC) No
		1272/2008: Hazard classes
		2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and
		2,
		2.14 categories 1 and 2, 2.15 types A to F
3(b)	POLIMAL® 122-1 POLIMAL® 122-2 and	Substances or mixtures fulfilling the criteria for any of the following
, ,		hazard classes or categories set out in Annex I to Regulation (EC) No
		1272/2008: Hazard classes
		3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on
		development,
		3.8 effects other than narcotic effects, 3.9 and 3.10
3(c)	POLIMAL® 122-1 POLIMAL® 122-2 and	Substances or mixtures fulfilling the criteria for any of the following
	series ; α-methylstyrene ; styrene	hazard classes or categories set out in Annex I to Regulation (EC) No
		1272/2008: Hazard class 4.1
40.	α-methylstyrene; styrene	Substances classified as flammable gases category 1 or 2, flammable
		liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances
		and mixtures which, in contact with water, emit flammable gases,
		category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids



	category 1, regardless of whether they appear in Part 3 of Annex VI to
	Regulation (EC) No 1272/2008 or not.

Contains no substance(s) listed on the REACH Candidate List Contains no substance(s) listed on REACH Annex XIV (Authorisation List) Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals) Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

15.1.2. National regulations Poland

Polish National Regulations - Overwrite:

Regulation of the Minister of Climate of 2 January 2020 on the catalogue of waste(J.o. L 2020, article 10). Regulation of the Minister of Family, Labour and Social Policy of 12 June 2018 on the highest permissible concentration and intensity of noxious agents for health at work environment (J. o L. item 1286 as amended).

Regulation of the Minister of Health of 20 April 2012 on labelling of hazardous substances and hazardous mixtures and certain mixtures (consolidated text: J. o L. 2015, item 450). Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive



76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

The ADR Agreement - Annex to the J. o L. of 26 April 2019 Government Statement of 18 February 2019 on the entry into force of the amendments to Annex A and B to the European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), signed in Geneva on 30 September 1957 (J. o L. 2019, item 769).

Act of 19 August 2011 on the Carriage of Dangerous Goods (J. o L. 2011 No. 227, item 1367 as amended).

Act of 25 February 2011 on chemical substances and their mixtures (J. o L. No. 63, item 322 as amended).

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out

16. Other Information

Abbreviations and acronyms:		
ADN	European Agreement concerning the International Carriage of	
	Dangerous Goods by Inland Waterways	
ADR	European Agreement concerning the International Carriage of	
	Dangerous Goods by Road	
ATE	Acute Toxicity Estimate	
BCF	Bioconcentration factor	
BLV	Biological limit value	
BOD	Biochemical oxygen demand (BOD)	



COD	Chemical oxygen demand (COD)	
DMEL	Derived Minimal Effect level	
DNEL	Derived-No Effect Level	
EC-No.	European Community number	
EC50	Median effective concentration	
EN	European Standard	
IARC	International Agency for Research on Cancer	
IATA	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	
LC50	Median lethal concentration	
LD50	Median lethal dose	
LOAEL	Lowest Observed Adverse Effect Level	
NOAEC	No-Observed Adverse Effect Concentration	
NOAEL	No-Observed Adverse Effect Level	
NOEC	No-Observed Effect Concentration	
OECD	Organisation for Economic Co-operation and Development	
OEL	Occupational Exposure Limit	
PBT	Persistent Bioaccumulative Toxic	
PNEC	Predicted No-Effect Concentration	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
SDS	Safety Data Sheet	

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STP	Sewage treatment plant	
ThOD	Theoretical oxygen demand (ThOD)	
TLM	Median Tolerance Limit	
VOC	Volatile Organic Compounds	
CAS-No.	Chemical Abstract Service number	
N.O.S.	Not Otherwise Specified	
vPvB	Very Persistent and Very Bioaccumulative	
ED	Endocrine disruptor	

Data sources : ECHA (European Chemicals Agency). Own research of the

mixture. Safety data sheets of suppliers / producers of

mixture ingredients.

Training advice : Before starting work with the product, the user should read

this safety data sheet, the health and safety rules for

handling chemicals, and in particular, undergo appropriate

work place training pursuant to the provisions of the Act -

Labor Code.

Other information : The above information is based on the current data

characterizing the product as well as the experience and

knowledge of the manufacturer in this field. They do not

constitute a quality description of a product or a promise of

specific properties. They should be treated as an aid for

safe handling in transport, storage and use of the product.

This does not release the user from responsibility for the

improper use of the above information and from

compliance with all legal standards in this field.



Full text of H- and EUH-sta	tements:		
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4		
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4		
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard,		
	Category 2		
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard,		
	Category 3		
Asp. Tox. 1	Aspiration hazard, Category 1		
Eye Dam. 1	Serious eye damage/eye irritation, Category 1		
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2		
Flam. Liq. 3	Flammable liquids, Category 3		
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.		
H332	Harmful if inhaled.		
H334	May cause allergy or asthma symptoms or breathing difficulties		
	if inhaled.		
H335	May cause respiratory irritation.		

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H361	Suspected of damaging fertility or the unborn child.	
H361d	Suspected of damaging the unborn child.	
H372	Causes damage to organs through prolonged or repeated exposure.	
H411	Toxic to aquatic life with long lasting effects.	
H412	Harmful to aquatic life with long lasting effects.	
Repr. 2	Reproductive toxicity, Category 2	
Resp. Sens. 1	Respiratory sensitisation, Category 1	
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
Skin Sens. 1	Skin sensitisation, Category 1	
Skin Sens. 1A	Skin sensitisation, category 1A	
STOT RE 1	Specific target organ toxicity – Repeated exposure, Category 1	
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation	

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:		
Flam. Liq. 3	H226	On basis of test data
Skin Irrit. 2	H315	Calculation method
Eye Irrit. 2	H319	Calculation method
Skin Sens. 1	H317	Calculation method
Repr. 2	H361d	Calculation method

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STOT SE 3	Н335	Calculation method
STOT RE 1	H372	Calculation method
Aquatic Chronic 3	H412	Calculation method

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End of Safety Data Sheet