

Printing date 09.02.2023 Version number 6 (replaces version 5) Revision: 29.06.2022

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

1.1 Product identifier

Trade name MARISEAL 400

Safety data sheet no.: XXP016845

1.2 Relevant identified uses of the substance or mixture and uses advised against

The product is intended for industrial or professional use. **Application of the substance / the mixture** Coating material

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Manufacturer/Supplier:

MARIS POLYMERS S.M.S.A.

Industrial Area of Inofita, 32 011 Inofita, Greece

Tel.: +30 22620 32918-9

e-mail:marispolymers@saint-gobain.com

Distributor:

Saint-Gobain Construction Products Polska Sp. z o.o.

ul. Okrężna 16, 44-100 Gliwice

Phone: +48 41 35 69 317 (Mon-Fri 9.00-16.00)

e-mail: SDS.pl@saint-gobain.com

1.4 Emergency telephone number:

112 (emergency number), 999 (ambulance), 998 (fire department).

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008



GHS02 flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



GHS08 health hazard

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction. STOT SE 3 H335 May cause respiratory irritation.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

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2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms







GHS02 GHS07 GHS08

Signal word Danger

Hazard-determining components of labelling:

reaction mass of ethylbenzene and m-xylene and p-xylene

3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate homopolymer, isocyanurate type

1,6-hexanediyl-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl)ethyl)carbamate maleic anhydride

4,5-dichloro-2-octyl-2H-isothiazol-3-one

3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate

Addition reaction products of conjugated sunflower-oil fatty acids and tall-oil fatty acids with maleic anhydride

Hazard statements

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

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

H304 May be fatal if swallowed and enters airways.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

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

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

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

P331 Do NOT induce vomiting.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Additional information:

EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

As from 24 August 2023 adequate training is required before industrial or professional use.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Does not contain PBT substances. **vPvB:** Does not contain vPvB substances.

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Dangerous components:		
EC number: 905-562-9 Reg.nr.: 01-2119488216-32-xxxx	reaction mass of ethylbenzene and m-xylene and p-xylene Flam. Liq. 3, H226; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335; Aquatic Chronic 3, H412 Specific concentration limit: STOT RE 2; H373:C ≥ 10 %	≥30-<40%
CAS: 13463-67-7 EINECS: 236-675-5 Index number: 022-006-00-2 Reg.nr.: 01-2119489379-17-xxxx	titanium dioxide Carc. 2, H351	≥10-<20%
CAS: 108-65-6 EINECS: 203-603-9 Index number: 607-195-00-7 Reg.nr.: 01-2119475791-29-xxxx	2-methoxy-1-methylethyl acetate Flam. Liq. 3, H226	≥3-<5%
CAS: 53880-05-0 EC number: 931-312-3 Reg.nr.: 01-2119488734-24-xxxx	3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate homopolymer, isocyanurate type Acute Tox. 4, H332; Skin Sens. 1, H317; STOT SE 3, H335	≥3-<5%
CAS: 140921-24-0 ELINCS: 411-700-4 Index number: 616-079-00-5 Reg.nr.: 01-0000015906-63-xxxx	1,6-hexanediyl-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl)ethyl)carbamate Skin Sens. 1, H317	≥3-<5%
EC number: 701-043-4 Reg.nr.: 01-2119976378-19-xxxx	Addition reaction products of conjugated sunflower-oil fatty acids and tall-oil fatty acids with maleic anhydride Skin Irrit. 2, H315; Skin Sens. 1, H317	≥0.1-<1%



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EINECS: 223-861-6 Index number: 615-008-00-5 Reg.nr.: 01-2119490408-31-xxxx	3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate Acute Tox. 3, H331; Resp. Sens. 1, H334; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335, EUH204 Specific concentration limits: Resp. Sens. 1;H334: C ≥ 0.5 % Skin Sens. 1; H317: C ≥ 0.5 %	≥0.25-<0.5%
EINECS: 203-571-6 Index number: 607-096-00-9	maleic anhydride Resp. Sens. 1, H334; STOT RE 1, H372; Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Sens. 1A, H317 Specific concentration limit: Skin Sens. 1A;H317: C ≥ 0.001 %	≥0.001-<0.1%
EINECS: 264-843-8 Index number: 613-335-00-8	4,5-dichloro-2-octyl-2H-isothiazol-3-one	≥0.0025-<0.025%

SVHC Void

Additional information For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Take affected persons out into the fresh air.

Seek immediate medical advice

Immediately remove any clothing soiled by the product.

After inhalation

Supply fresh air and to be sure call for a doctor.

Seek medical treatment in case of complaints.

In case of unconsciousness place patient stably in side position for transportation.

After skin contact

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

After eye contact

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. Rinse liquid should be tempered (20-30°C).

Protect unharmed eye.

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Seek immediate medical advice.

After swallowing

Do not induce vomiting; call for medical help immediately.

Drink plenty of water and provide fresh air. Call for a doctor immediately.

Seek immediate medical advice.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents CO2, powder or water spray. Fight larger fires with water spray.

For safety reasons unsuitable extinguishing agents Water with full jet

5.2 Special hazards arising from the substance or mixture No further relevant information available.

5.3 Advice for firefighters

Protective equipment:

Wear fully protective suit.

Wear self-contained respiratory protective device.

Additional information

Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Mouth respiratory protective device.

Avoid inhalation of vapors.

Keep away from ignition sources

6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Ensure adequate ventilation.

Absorb liquid components with liquid-binding material.

6.4 Reference to other sections

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.

Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

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7.2 Conditions for safe storage, including any incompatibilities Storage

Requirements to be met by storerooms and receptacles:

Store in a cool location.

Provide ventilation for receptacles.

Information about storage in one common storage facility: Store away from foodstuffs.

Further information about storage conditions:

Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

reaction r	nass of ethylbenzene a	nd m-xylene and p-xylene
Oral	Derived No Effect Level	12.5 mg/kgxday (consumer systemic long term value)
Dermal	Derived No Effect Level	212 mg/kgxday (worker systemic long term value)
		125 mg/kgxday (consumer systemic long term value)
Inhalative	Derived No Effect Level	221 mg/m³ (worker systemic long term value)
		442 mg/m³ (worker systemic short term value)
		65.3 mg/m³ (consumer systemic long term value)
		260 mg/m³ (consumer systemic short term value)
CAS: 108-	-65-6 2-methoxy-1-meth	ylethyl acetate
Oral	Derived No Effect Level	36 mg/kgxday (consumer systemic long term value)
Dermal	Derived No Effect Level	796 mg/kgxday (worker systemic long term value)
		320 mg/kgxday (consumer systemic long term value)
Inhalative	Derived No Effect Level	275 mg/m³ (worker systemic long term value)
		33 mg/m³ (consumer systemic long term value)
		550 mg/m³ (worker local short term value)
		33 mg/m³ (consumer local long term value)
CAS: 538	80-05-0 3-Isocyanatom	ethyl-3,5,5-trimethylcyclohexyl isocyanate homopolym
	isocyanurate ty	pe
Inhalative	Derived No Effect Level	0.58 mg/m³ (worker local short term value)
		0.29 mg/m³ (worker local long term value)
Addition i		njugated sunflower-oil fatty acids and tall-oil fatty acids with
Oral	Derived No Effect Level	1.5 mg/kgxday (consumer systemic long term value)
Dermal	Derived No Effect Level	3 mg/kgxday (worker systemic long term value)
		1.5 mg/kgxday (consumer systemic long term value)

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040, 4000 74 0 0 1	arrange and the district of the second secon	(Contd. of pa
	cyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	
Inhalative Derived No	Effect Level 0.0453 mg/m³ (worker local short term value)	
	0.0453 mg/m³ (worker local long term value)	
PNECs		
	ylbenzene and m-xylene and p-xylene	
Predicted No-Effect Co	oncentration 0.327 mg/l (sea water rating factor)	
	0.327 mg/l (fresh water rating factor)	
CAS No. / Design	ation of material / % / Type / Value / Unit	
CAS: 13463-67-7 tital	nium dioxide	
AGW (Germany)	Long-term value: 1.25* 10** mg/m³	
21.75	2(II);*alveolengängig**einatembar; AGS, DFG, Y	
GV (Denmark)	Short-term value: 12 mg/m³ Long-term value: 6 mg/m³	
	K, som Ti	
LEP (Spain)	Long-term value: 10 mg/m³	
TWA (Italy)	Long-term value: 10 mg/m³	
	A4	
VLE (Portugal)	Long-term value: 10 mg/m³ A4; Irritação do TRI	
OEL (Sweden)	Long-term value: 5 mg/m³ totaldamm	
CAS: 108-65-6 2-met	noxy-1-methylethyl acetate	
IOELV (European Unio		
(Long-term value: 275 mg/m³, 50 ppm Skin	
AGW (Germany)	Long-term value: 270 mg/m³, 50 ppm 1(I);DFG, EU, Y	
GV (Denmark)	Short-term value: 550 mg/m³, 100 ppm Long-term value: 275 mg/m³, 50 ppm EH	
LEP (Spain)	Short-term value: 550 mg/m³, 100 ppm Long-term value: 275 mg/m³, 50 ppm vía dérmica, VLI	
VL (Italy)	Short-term value: 550 mg/m³, 100 ppm Long-term value: 275 mg/m³, 50 ppm Cute	
OEL (Sweden)	Short-term value: 550 mg/m³, 100 ppm Long-term value: 275 mg/m³, 50 ppm H	
HTP (Finland)	Short-term value: 550 mg/m³, 100 ppm Long-term value: 270 mg/m³, 50 ppm iho	



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CAS: 4098-71-9 3-iso	cyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	
AGW (Germany)	Long-term value: 0.046 mg/m³, 0.005 ppm 1;=2=(I);DFG, 11, 12, Sa	
GV (Denmark)	Short-term value: 0.090 mg/m³, 0.01 ppm Long-term value: 0.045 mg/m³, 0.005 ppm	
LEP (Spain)	Long-term value: 0.046 mg/m³, 0.005 ppm Sen	
TWA (Italy)	Long-term value: 0.045 mg/m³, 0.005 ppm	
VLE (Portugal)	Long-term value: 0.005 ppm Sensibilização respiratória	
OEL (Sweden)	Short-term value: 0.046 mg/m³, 0.005 ppm Long-term value: 0.018 mg/m³, 0.002 ppm M, S	
HTP (Finland)	Short-term value: 0.035 mg/m³ NCO	
CAS: 108-31-6 maleio	CAS: 108-31-6 maleic anhydride	
AGW (Germany)	Long-term value: 0.081 mg/m³, 0.02 ppm 1;=2.5=(I);DFG, Sah, Y, 11	
GV (Denmark)	Short-term value: 0.8 mg/m³, 0.2 ppm Long-term value: 0.4 mg/m³, 0.1 ppm	
LEP (Spain)	Long-term value: 0.4 mg/m³, 0.1 ppm FIV, Sen	
TWA (Italy)	Long-term value: 0.04 mg/m³, 0.01 ppm sen, A4 (i, h)	
VLE (Portugal)	Long-term value: 0.1 mg/m³ SC, SR; A4;Sensibilização respiratória	
OEL (Sweden)	Short-term value: 0.4 mg/m³, 0.1 ppm Long-term value: 0.2 mg/m³, 0.05 ppm M, S	
HTP (Finland)	Long-term value: 0.41 mg/m³, 0.1 ppm Ceiling limit: 0.81 mg/m³, 0.2 ppm	

8.2 Exposure controls

Individual protection measures, such as personal protective equipment General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Do not inhale gases / fumes / aerosols.

Use a moisturising skin cream after processing the product.

Respiratory protection:

Use suitable respiratory protective device in case of insufficient ventilation.

In case of brief exposure or low pollution use respiratory filter device.

In case of intensive or longer exposure use self-contained respiratory protective device.

Short term filter device:

Combination of charcoal filter and particulate filter A2-P2 (EN 529)

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Hand protection

The glove material has to be impermeable and resistant to the product/ the substance/ the mixture. Protective gloves against chemicals (standard EN 374-1)

Due to missing tests no recommendation to the glove material can be given for the product/ the mixture/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Fluorocarbon rubber (FKM-Viton)

Butyl rubber, BR

Recommended thickness of the material: > 0.5 (BR); 0.4 (Viton) mm

Recommendation: contaminated gloves should be disposed of.

Penetration time of glove material

The determined breakthrough times according to EN 16523-1:2015 are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the breakthrough time, is recommended.

For the mixture of chemicals mentioned below the breakthrough time has to be at least 480 minutes (Permeation according to EN 16523-1:2015: Level 6).

Eye/face protection

Tightly sealed goggles

Protective eyewear (standard EN 166)

Body protection:

Chemically resistant protective work clothing (EN 14605)

Boots

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Colour:Various coloursOdour:CharacteristicOdour threshold:Not determined.Melting point/freezing point:Undetermined.

Boiling point or initial boiling point and boiling

range 130 °C

Flammability Not applicable.

Lower and upper explosion limit

Lower: Not determined. Upper: 0.8 Vol %

Flash point: 27-32 °C (closed up, EC No. 905-562)

Ignition temperature:488 °C (xylene)Decomposition temperature:Not determined.pHNot applicable.

Viscosity:

Kinematic viscosity Not determined.

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dynamic at 20 °C: >40 mPas

Solubility

Water: Not miscible or difficult to mix

Partition coefficient n-octanol/water (log value) Not determined. Vapour pressure: Not determined.

Density and/or relative density

Density at 20 °C: 1.14 g/cm³ Relative density Not determined. **Bulk density:** Not applicable. Vapour density Not determined.

9.2 Other information No further relevant information available.

Appearance:

Form: Liquid

Important information on protection of health

and environment, and on safety.

Auto-ignition temperature: Product is not self-igniting.

Explosive properties: Product is not explosive. However, formation of

explosive air/vapour mixtures are possible.

Minimum ignition energy

Solvent separation test: Not determined EU-VOC (g/L) 460.0000 g/l

Change in condition Softening point/range

Oxidising properties Not considered as oxidising.

Evaporation rate Not determined.

Information with regard to physical hazard

classes

Explosives Void Flammable gases Void **Aerosols** Void Oxidising gases Void Gases under pressure Void

Flammable liquids

Flammable liquid and vapour.

Flammable solids Void Self-reactive substances and mixtures Void **Pyrophoric liquids** Void **Pyrophoric solids** Void Self-heating substances and mixtures Void

Substances and mixtures, which emit flammable gases in contact with water Void Oxidising liquids Void Oxidising solids Void Organic peroxides Void Corrosive to metals Void **Desensitised explosives** Void



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SECTION 10: Stability and reactivity

- 10.1 Reactivity No further relevant information available.
- 10.2 Chemical stability Stable at recommended storage conditions

Thermal decomposition / Conditions to be avoided: Stable at environment temperature.

- **10.3 Possibility of hazardous reactions** No dangerous reactions known
- 10.4 Conditions to avoid Avoid heat, sparkles, naked flame or other sources of ignition.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

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

Acute toxicity Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:

Compone		/ Type / Value / Species
Dermal	LD50	2,933 mg/kg (Calculation)
Inhalative	LC50/4 h	>28.2 mg/l (Calculation)
reaction r	nass of et	hylbenzene and m-xylene and p-xylene
Oral	LD50	>3,523 mg/kg (Rat)
Dermal	LD50	>12,126 mg/kg (Rabbit)
Inhalative	LC50/4 h	>27 mg/l (Rat)
CAS: 1340	63-67-7 tit	anium dioxide
Oral	LD50	>10,000 mg/kg (Rat)
CAS: 108-	65-6 2-me	thoxy-1-methylethyl acetate
Oral	LD50	>6,000 mg/kg (Rat)
Dermal	LD50	>2,000 mg/kg (Rat)
CAS: 5388		socyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate homopolyme
		ocyanurate type
Oral	LD50	14,000 mg/kg (Rat)
		>5 mg/l (Rat)
CAS: 1409		,6-hexanediyl-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl)ethyl)carbamate
Oral	LD50	>2,000 mg/kg (Rat)
Dermal	LD50	>2,000 mg/kg (Rat)
maleic an	hydride	roducts of conjugated sunflower-oil fatty acids and tall-oil fatty acids with
_	LD50	>2,000 mg/kg (Rat)
CAS: 4098		ocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate
Oral	LD50	4,814 mg/kg (Rat)
Dermal	LD50	7,000 mg/kg (Rat)
		>31 mg/l (Rat)
CAS: 643	59-81-5 4,	5-dichloro-2-octyl-2H-isothiazol-3-one



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Inhalative LC50/4 h 0.16 mg/l (ATE)

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 Based on available data, the classification criteria are not met.

Carcinogenicity Based on available data, the classification criteria are not met.

Reproductive toxicity Based on available data, the classification criteria are not met.

STOT-single exposure

May cause respiratory irritation.

STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard

May be fatal if swallowed and enters airways.

11.2 Information on other hazards

Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

12.1 Toxicity

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

Type of test	/ Effective concentration / Method / Assessment			
reaction ma	reaction mass of ethylbenzene and m-xylene and p-xylene			
LC50/96h	>2.6 mg/l (Fish)			
EC50/24h	96 mg/l (Activated sludge)			
EC50/72h	4.6-4.9 mg/l (Algae)			
NOEC (21d)	1.57 mg/l (Daphnia magna)			
CAS: 13463-	67-7 titanium dioxide			
LC50/48h	500 mg/l (Daphnia magna)			
EC50/72h	100 mg/l (Algae)			
NOEC (72h)	100 mg/l (Algae)			
NOEC (14d)	0.87-1.1 mg/l (Fish)			
NOEC (21d)	5 mg/l (Daphnia magna)			
CAS: 108-65	-6 2-methoxy-1-methylethyl acetate			
LC50/96h	161 mg/l (Pimephales promelas (Minnow))			
	140 mg/l (Fish)			
EC50/48h	>500 mg/l (Daphnia magna)			
CAS: 53880-	05-0 3-lsocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate homopolymer,			
	isocyanurate type			
EC50/48h	3.36 mg/l (Daphnia magna)			
EC50/72h	3.1 mg/l (Algae)			

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Addition rea maleic anhy	ction products of conjugated sunflower-oil fatty acids and tall-oil fatty acids with dride	
LC50/48h	150 mg/l (Fish)	
EC50/48h	100 mg/l (Daphnia magna)	
EC50/72h	100 mg/l (Algae)	
NOEC (72h)	100 mg/l (Algae)	
NOEC (21d)	10 mg/l (Daphnia magna)	
CAS: 4098-7	1-9 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	
LC50/96h	208 mg/l (Fish)	
EC50/72h	4.8 mg/l (Daphnia magna)	
	70 mg/l (Algae)	

12.2 Persistence and degradability No further relevant information available.

Behaviour in environmental systems:

Com	pon	ents:
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reaction mass of ethylbenzene and m-xylene and p-xylene

DT50-value (Degradation Half Time) 2 day

12.3 Bioaccumulative potential

CAS: 4098-71-9 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate

EBAB 4.7 log Pow (Bioaccumulation)

12.4 Mobility in soil No further relevant information available.

12.5 Results of PBT and vPvB assessment

PBT: Does not contain PBT substances.

vPvB: Does not contain vPvB substances.

12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects

Behaviour in sewage processing plants:

Type of test / Effective concentration / Method / Assessment

Addition reaction products of conjugated sunflower-oil fatty acids and tall-oil fatty acids with maleic anhydride

EC 50 (3h) 1,000 mg/l (Activated sludge)

Additional ecological information:

General notes:

Harmful to aquatic organisms

Do not allow product to reach ground water, water course or

sewage system, even in small quantities.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation

Dispose of the product in accordance with national and local regulations.

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

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European	European waste catalogue		
08 04 09*	waste adhesives and sealants containing organic solvents or other hazardous substances		
HP3	Flammable		
HP4	Irritant - skin irritation and eye damage		
HP5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity		
HP6	HP6 Acute Toxicity		
HP7 Carcinogenic			
HP14	Ecotoxic		

Uncleaned packaging:

Stowage Category

Recommendation: Disposal must be made according to official regulations.

14.1 UN number or ID number ADR, IMDG, IATA	UN1866
14.2 UN proper shipping name ADR IMDG, IATA	1866 RESIN SOLUTION RESIN SOLUTION
14.3 Transport hazard class(es)	
ADR	
Class	3 (F1) Flammable liquids.
Label	3
IMDG, IATA	
Class	3 Flammable liquids.
Label	3
14.4 Packing group ADR, IMDG, IATA	III
14.5 Environmental hazards:	Not applicable.
14.6 Special precautions for user	Warning: Flammable liquids.
Hazard identification number (Kemler o	
EMS Number:	F-E, <u>S-E</u>

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Safety Data Sheet

according to 1907/2006/EC, Article 31

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IMO instruments	Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 m
Transport category	3
Tunnel restriction code	D/E
IMDG	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 m
UN "Model Regulation":	UN 1866 RESIN SOLUTION, 3, III

SECTION 15: Regulatory information

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

Regulation (EC) No 1907/2006 (REACH) (Candidate List, Annexes XIV and XVII)

Regulation (EC) No 1272/2008 (CLP)

Regulation (EU) 2020/878 (amending REACH Annex II on the compilation of safety data sheets)

Directive 2004/42/CE (VOC), cf. section 9

Labelling according to Regulation (EC) No 1272/2008 cf. section 2

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed.

Seveso category P5c FLAMMABLE LIQUIDS

Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t

Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t

REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 74

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment - Annex II

None of the ingredients is listed.

REGULATION (EU) 2019/1148

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

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Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

	H226	Flammable	liquid	and va	apour.
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H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H330 Fatal if inhaled.

H331 Toxic if inhaled.

H332 Harmful if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

H351 Suspected of causing cancer.

H372 Causes damage to organs through prolonged or repeated exposure.

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

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

EUH071 Corrosive to the respiratory tract.

EUH204 Contains isocyanates. May produce an allergic reaction.

Classification according to Regulation (EC) No 1272/2008				
Flammable liquids	Bridging principles			
Skin corrosion/irritation Serious eye damage/irritation Skin sensitisation Specific target organ toxicity (single exposure) Specific target organ toxicity (repeated exposure) Hazardous to the aquatic environment - long-term (chronic) aquatic hazard	The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.			
Aspiration hazard	Expert judgement			

Department issuing SDS: SUSTCHEM S.A



Safety Data Sheet

according to 1907/2006/EC, Article 31

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Contact:

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Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organisation

GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern (REACH regulation)

vPvB: very Persistent and very Bioaccumulative Flam. Liq. 3: Flammable liquids - Category 3 Acute Tox. 4: Acute toxicity - Category 4 Acute Tox. 2: Acute toxicity - Category 2

Acute Tox. 3: Acute toxicity - Category 3

Skin Corr. 1: Skin corrosion/irritation - Category 1 Skin Corr. 1B: Skin corrosion/irritation - Category 1B Skin Irrit. 2: Skin corrosion/irritation - Category 2

Eye Dam. 1: Serious eye damage/eye irritation - Category 1 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Resp. Sens. 1: Respiratory sensitisation - Category 1

Skin Sens. 1: Skin sensitisation - Category 1 Skin Sens. 1A: Skin sensitisation - Category 1A

Carc. 2: Carcinogenicity - Category 2

STOT SE 3: Specific target organ toxicity (single exposure) - Category 3 STOT RE 1: Specific target organ toxicity (repeated exposure) - Category 1

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2 Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3

* Data compared to the previous version altered.

According to Annex II of the REACH regulation, the modified sections in this version of the Safety Data Sheet in comparison with the previous one are marked with asterisks.