Commercial Product Name: Sealoflex Endura Concrete Primer

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

1.1 Product identifier

Commercial Product Name Sealoflex Endura Concrete Primer

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

Relevant identified uses concrete priming

Recommended restrictions Reserved for industrial and professional use.

1.3 Details of the supplier of the safety data sheet

Company designation BMI Group Operations, SARL; LUXEMBOURG

Albert Borschette, 2B; P.O.Box 99137

1246 LUXEMBOURG Telephone: +33254737072

Marketer Necoflex Ltd, Matheson, Block A, Riverside IV

Sir John Rogerson's Quay 70 D0 2R296 Dublin 2 Dublin, Ireland Telephone: T +353 1 802 3333 FAX: bmi.sds@bmigroup.com

E-mail (competent person) bmi.sds@bmigroup.com

1.4 Emergency telephone number

Ireland NCEC +44 (0)1865 407 333 - English speaking (24 hours, 7 days)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation

(EC) No. 1272/2008

Flam. Liq. 2; H225 Skin Irrit. 2; H315 Skin Sens. 1; H317 STOT SE 3; H335

2.2 Label elements

Hazard pictogram



GHS07

Signal word Danger

Hazardous component(s) to be indi-

cated on label

methyl methacrylate, 1.4-Butandioldimethacrylate, ethyl methacrylate

H-statement(s) H225: Highly flammable liquid and vapour.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction. H335: May cause respiratory irritation.

P-statement(s) P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.

P264: Wash thoroughly after handling.

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P280: Wear protective gloves/protective clothing/eye protection/face protec-

tion/hearing protection.

P312: Call a POISON CENTER/doctor if you feel unwell.

P333+P313: If skin irritation or rash occurs: Get medical advice/attention. P362+P364: Take off contaminated clothing and wash it before reuse.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Version: 1.2/en

Hazardous ingredients

Ingredient	Numbers	Classification (EC) 1272/2008	Concentration
methyl methacrylate	CAS No.: 80-62-6 EC-No.: 201-297-1 Index-No.: 607-035-00-6 REACH No.: 01-2119452498-28-XXXX	Flam. Liq. 2; H225 STOT SE 3; H335 Skin Irrit. 2; H315 Skin Sens. 1; H317	65.0 - 70.0 % by weight
1,1`-(p-Tolylimino)dipropan-2-ol	CAS No.: 38668-48-3 EC-No.: 254-075-1 REACH No.: 01-2119980937-17-XXXX	Acute Tox. 2; H300 Eye Irrit. 2; H319 Aquatic Chronic 3; H412	1.0 - 5.0 % by weight
1.4-Butandioldimethacrylate	CAS No.: 2082-81-7 EC-No.: 218-218-1 REACH No.: 01-2119967415-30-XXXX	Skin Sens. 1; H317	1.0 - 5.0 % by weight
ethyl methacrylate	CAS No.: 97-63-2 EC-No.: 202-597-5 Index-No.: 607-071-00-2 REACH No.: 01-2119490215-40-XXXY	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H335 Skin Irrit. 2; H315 Skin Sens. 1; H317	0.1 - 1.0 % by weight

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice Move out of dangerous area. Take off all contaminated clothing immediately. Do

not leave the victim unattended. Show this safety data sheet to the doctor in at-

tendance.

If inhaled Move to fresh air. If symptoms persist, call a physician. Show this safety data

sheet to the doctor in attendance.

In case of skin contact Wash off immediately with soap and plenty of water while removing all contami-

nated clothes and shoes. If skin irritation occurs, seek medical advice/attention.

medical advice.

If swallowed Rinse mouth.Do NOT induce vomiting.Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms None known

4.3 Indication of any immediate medical attention and special treatment needed

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Carbon dioxide (CO2), Foam, Water spray, Dry powder

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Extinguishing media which must not

be used for safety reasons

High volume water jet

5.2 Special hazards arising from the substance or mixture

Special exposure hazards arising from the substance or preparation it

Violent polymerization may be caused by: Extremes of temperature and direct

sunlight.

Decomposition products not known in detail.

5.3 Advice for firefighters

Special protective equipment for fire-

fighting

In the event of fire, wear self-contained breathing apparatus.

Additional information on firefighting Fire residues and contaminated fire extinguishing water must be disposed of in

accordance with local regulations. Do not allow run-off from fire fighting to enter

drains or water courses.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions Use personal protective equipment.

Ensure adequate ventilation. Vapours are heavier than air and may spread along

floors.

6.2 Environmental precautions

Environmental precautions Prevent further leakage or spillage if safe to do so.Do not flush into surface water

or sanitary sewer system. Avoid subsoil penetration.

6.3 Methods and material for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal Methods for cleaning up

binder, sawdust). Clean contaminated surface thoroughly.

6.4 Reference to other sections

Reference to other sections Disposal considerations

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling Handle and open container with care. Avoid contact with skin and eyes.

Processing may lead to evolution of flammable volatiles. In case of insufficient ventilation, wear suitable respiratory equipment. Keep product and empty con-

tainer away from heat and sources of ignition.

Smoking, eating and drinking should be prohibited in the application area. For **Precautions**

personal protection see section 8. Observe label precautions.

7.2 Conditions for safe storage, including any incompatibilities

Storage space and container require-

ments

Keep in properly labelled containers. Containers which are opened must be care-

fully resealed and kept upright to prevent leakage.

Store in accordance with the particular national regulations. Keep in a cool, well-

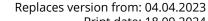
ventilated place.

TRGS 510

Recommended storage temperature Keep in a dry, cool place.

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Advice on protection against fire and

explosion

Take precautionary measures against static discharge. Vapours may form explo-

sive mixture with air. Use water spray to cool unopened containers.

7.3 Specific end use(s)

Protect from sunlight and store in well-ventilated place. Specific use(s)

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

methyl methacrylate

Ireland			
Long-term exposure value/	Short-term exposure value /	Remarks	Source
ppm	ppm		
50	100	IOELV, Sens.	Code of Practice for the Safe-
			ty Health and Welfare at
			Work (2011)

Europe			
Long-term exposure value/	Short-term exposure value /	Issuing date	Source
ppm	ppm		
50	100	2009/161	DIRECTIVE 2009/161/EU

DNEL	Target group	Exposure route	Exposure frequency	Source
	0 0 1	·		
210 mg/m ³	Workers	Inhalation	Long term effects Local	Company data
210 mg/m ³	Workers	Inhalation	Long term effects sys-	Company data
			temic	
1,5 mg/cm ²	Workers	Skin	Long term effects Local	Company data
13,67 mg/kg	Workers	Skin	Long term effects sys-	Company data
			temic	
105 mg/m ³	Consumers	Inhalation	Long term effects Local	Company data
74,3 mg/m ³	Consumers	Inhalation	Long term effects, sys-	Company data
			temic	
1,5 mg/cm ²	Consumers	Skin	Long term effects Local	Company data
8,2 mg/kg	Consumers	Skin	Long term effects sys-	Company data
			temic	
1,5 mg/cm ²	Consumers	Skin	Short-term effects Lo-	Company data
			cal	

PNEC	Exposure route	Source
0,94 mg/l	freshwater	Company data
0,094 mg/l	marine water	Company data
5,74 mg/kg	sediment	Company data
1,47 mg/kg	Soil	Company data

1,1`-(p-Tolylimino)dipropan-2-ol

DNEL	Target group	Exposure route	Exposure frequency	Source
2 mg/m ³	Workers	Inhalation	Long term effects	Company data
0,6 mg/kg	Workers	Skin	Long term effects	Company data

PNEC	Exposure route	Source
199,5 mg/l	Waste water treatment	Company data
0,0072 mg/kg	marine water	Company data

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	0,017 mg/l	freshwater	Company data
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1.4-Butandioldimethacrylate

DNEL	Target group	Exposure route	Exposure frequency	Source
14,5 mg/m ³	Workers	Inhalation	Long term effects sys-	Company data
			temic	
4,2 mg/kg	Workers	dermal exposure	Long term effects sys-	Company data
			temic	

8.2 Exposure controls

Use the indicated respiratory protection if the occupational exposure limit is ex-Respiratory protection

ceeded and/or in case of product release (dust).

Vapour during processing may be irritating to the respiratory tract and to the eyes. When workers are facing concentrations above the exposure limit they

must use appropriate certified respirators.

Recommended Filter type: A1, A2 (in case of higher concentration) Remarks

Hand protection Protective gloves complying with EN 374.Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the

gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

Unsuitable material woven fabric, Leather gloves, Nitrile rubber

Suitable material butyl-rubber Material thickness 0,7 mm Break through time 120 min

Eye protection Tightly fitting safety goggles

Skin and body protection Wear suitable protective equipment.Long sleeved clothing

General protective and hygiene mea-

sures

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feedingstuffs. Wash hands before breaks and at the end of workday. Use protective skin cream before handling the product. Avoid

contact with the skin and the eyes.

Ensure adequate ventilation, especially in confined areas. When workers are fac-Engineering measures

ing concentrations above the exposure limit they must use appropriate certified

respirators.

Other information (chapter 8.) Assumes a good basic standard of occupational hygiene is implemented.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state liquid Colour colourless

Odour smell of Methylmethacrylate

Melting point [°C] / Freezing point [°C] not determined

> 100 °C Boiling point [°C]

The product itself has not been tested. Explosion limits [Vol-%]

methyl methacrylate

1,7 vol. % Lower limit

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Upper limit 12,5 vol. % Flash point [°C] 10 °C

Ignition temperature [°C] not determined pH not applicable

Viscosity, kinematic [mm²/s] 51 mm²/s

Water solubility [g/l]

Remarks insoluble

Partition coefficient n-octanol /water

(log P O/W)

not determined

Vapour pressure [kPa] > 50 hPaDensity [g/cm³] $1,00 \text{ g/cm}^3$ Temperature [°C] 20 °C

Vapour density not determined

9.2 Other information

9.2.2 Other safety-related parameters

Evaporation rate [kg/(s*m²)] not determined Explosive properties Not relevant

In use, may form flammable/explosive vapour-air mixture.

Form Liquid
Flow time [s] 17 sec
Temperature [°C] 20 °C

Measuring method DIN cup 4 mm

SECTION 10: Stability and reactivity

10.1 Reactivity

Reactivity No decomposition if stored and applied as directed.

10.2 Chemical stability

Chemical stability The product is stable under the usual processing conditions

10.3 Possibility of hazardous reactions

Hazardous reactions The product is normally supplied in a stabilized form. If the permissible storage

period and/or storage temperature is noticeably exceeded, the product may poly-

merize with heat evolution. Risk of receptacle bursting.

10.4 Conditions to avoid

Conditions to avoid Extremes of temperature and direct sunlight.

10.5 Incompatible materials

Materials to avoid Reacts violently with peroxides. Reducing agents, Strong bases, Amines, Oxidizing

agents

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10.6 Hazardous decomposition products

Hazardous decomposition products Decomposition products not known in detail.

SECTION 11: Toxicological information

11.1 Information on the hazard classes within the meaning of Regulation (EU) No. 1272/2008

Oral toxicity [mg/kg]

Hazardous ingredients

methyl methacryl	ate			
Value	Test criterion	Test species	Measuring method	Source
>5001 mg/kg	LD50	rat	OECD Test Guideline 401	Company data

1,1 `-(p-Tolyliming)dipropan-2-ol			
Value	Test criterion	Test species	Measuring method	Source
26 mg/kg	LD50	rat	OECD Test Guideline 423	Company data

1.4-Butandioldimethacrylate					
Value	Test criterion	Test species	Measuring method	Source	
>5000 mg/kg	LD50	rat	OECD Test Guideline 401	Company data	

Dermal toxicity [mg/kg]

Hazardous ingredients

methyl methacrylate			
Value	Test criterion	Test species	Source
>5001 mg/kg	LD50	rabbit	Company data

	1,1 `-(p-Tolylimino)dipro	pan-2-ol		
	Value	Test criterion	Test species	Source
Ī	2001 mg/kg	LD50	rat	Company data

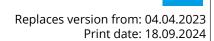
1.4-Butandioldimethacrylate				
Value	Test criterion	Test species	Remarks	Source
>3000 mg/kg	LD50	rabbit	* 1)	Company data

^{* 1):} The information is based on our own tests, on data from literature and information from protective glove producers or is based on data obtained from similar substances.

LC50 Inhalation 4h for vapours [mg/l]

methyl methacrylate			
Value	Test criterion	Test species	Source
29,8 mg/l	LC50	rat	Company data

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Irritant effect on skin

Hazardous ingredients

methyl methacrylate		
Value	Test species	Source
irritating	rabbit	Company data

1,1`-(p-Tolylimino)dipropan-2-ol	
Value	Source
No skin irritation	Company data

1.4-Butandioldimethacrylate	
Value	Source
No skin irritation	Company data

Irritant effect on eyes

Hazardous ingredients

methyl methacrylate		
Value	Test species	Source
Irritant	rabbit	Company data

1,1`-(p-Tolylimino)dipropan-2-ol	
Value	Source
Irritant	Company data

1.4-Butandioldimethacrylate	
Value	Source
No eye irritation	Company data

Sensitization

Hazardous ingredients

methyl methacrylate		
Value	Test species	Source
Skin sensitization	mouse	Company data

1,1`-(p-Tolylimino)dipropan-2-ol	
Value	Source
No sensitization responses were observed.	Company data

1.4-Butandioldimethacrylate		
Value	Test species	Source
sensitizing	mouse	Company data

Mutagenicity

ridzar dodo inglicarerito	
methyl methacrylate	
Value	Source
not mutagenic	Company data

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1,1`-(p-Tolylimino)dipropan-2-ol	
Value	Source
negative	Company data

1.4-Butandioldimethacrylate	
Value	Source
No known effect.	Company data

Carcinogenic effects

Hazardous ingredients

methyl methacrylate		
Value	Test species	Source
not a carcinogen	rat, mouse	Company data

1.4-Butandioldimethacrylate	
Value	Source
No known effect.	Company data

Reproduction toxicity Hazardous ingredients

methyl methacrylate	
Value	Source
not toxic to reproduction	Company data

1.4-Butandioldimethacrylate	
Value	Source
No known effect.	Company data

Specific target organ toxicity (single exposure) [mg/kg]

Hazardous ingredients

	riazaraous irigi calcinos	
	methyl methacrylate	
	Value	Source
Ì	Causes respiratory tract irritation.	Company data

1.4-Butandioldimethacrylate	
Value	Source
No known effect.	Company data

Specific target organ toxicity (repeated exposure) [mg/kg]

methyl methacrylate	
Value	Source
No known effect.	Company data

1.4-Butandioldimethacrylate	
Value	Source

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No known effect.	Company data

11.2 Information about other hazards

Experience in practice

Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Irritating to eyes, respiratory system and skin. Irritating to mucous membranes

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish [mg/l]

Hazardous ingredients

methyl metha	methyl methacrylate					
Value	Test criterion	Test species	Measuring method	Exposure du- ration [h]	Source	
191 mg/l	LC50	On- corhynchus mykiss (rain- bow trout)	OECD Test Guideline 203	96 h	Company da- ta	

1,1`-(p-Tolylimino	dipropan-2-ol			
Value	Test criterion	Test species	Exposure dura- tion [h]	Source
17 mg/l	LC50	Brachydanio re- rio (zebra fish)	96 h	Company data

1.4-Butandioldim	ethacrylate			
Value	Test criterion	Test species	Exposure dura- tion [h]	Source
32,5 mg/l	LC50	Leuciscus idus (Golden orfe)	48 h	Company data

Toxicity to daphnia [mg/l]

<u> </u>							
methyl metha	methyl methacrylate						
Value	Test criterion	Test species	Exposure du- ration [h]	Measuring method	Source		
69 mg/l	EC50	Daphnia magna (Wa- ter flea)	48 h	OECD Test Guideline 202	Company da- ta		

1,1`-(p-Tolylimino)dipropan-2-ol						
Value	Test criterion	Test species	Exposure dura- tion [h]	Source		
28,8 mg/l	EC50	Daphnia magna (Water flea)	18 h	Company data		

1.4-Butand		

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Value	Test criterion	Test species	Exposure dura- tion [h]	Source
7,51 mg/l	EC10	Daphnia magna (Water flea)	21 day(s)	Company data

Toxicity to algae [mg/l]

Hazardous ingredients

methyl metha	methyl methacrylate						
Value	Test criterion	Test species	Exposure du- ration [h]	Measuring method	Source		
>110 mg/l	EC50	Selenastrum capricornu- tum (green algae)	72 h	OECD Test Guideline 201	Company da- ta		

1,1`-(p-Tolylimino)dipropan-2-ol						
Value	Test criterion	Test species	Exposure dura- tion [h]	Source		
245 mg/l	EC50	Desmodesmus subspicatus	27 h	Company data		

1.4-Butandioldimethacrylate						
Value	Test criterion	Test species	Exposure dura- tion [h]	Source		
9,79 mg/l	EC50	Desmodesmus subspicatus	72 h	Company data		

NOEC (fish) [mg/l]

Hazardous ingredients

methyl methacrylate			
Value	Test species	Measuring method	Source
9,4 mg/l	Brachydanio rerio (ze- bra fish)	OECD Test Guideline 210	Company data

NOEC (daphnia) [mg/l]

Hazardous ingredients

methyl methacrylate			
Value	Test species	Measuring method	Source
37 mg/l	Daphnia magna (Wa- ter flea)	OECD Test Guideline 202	Company data

12.2 Persistence and degradability

Biodegradability

methyl methacrylate		
Value	Method of analysis	Source
Readily biodegradable.	OECD 301C/ ISO 9408/ EEC 92/69/V, C.4-F	Company data

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1,1`-(p-Tolylimino)dipropan-2-ol	
Value	Source
Poorly biodegradable.	Company data

1.4-Butandioldimethacrylate		
Value	Remarks	Source
Biodegradable. 84 %	Angabe des Herstellers	Company data

12.3 Bioaccumulative potential

Bioaccumulation

Hazardous ingredients

methyl methacrylate	
Value	Source
Does not bioaccumulate.	Company data

1,1`-(p-Tolylimino)dipropan-2-ol	
Value	Source
no data available	Company data

1.4-Butandioldimethacrylate	
Value	Source
Does not bioaccumulate.	Company data

12.4 Mobility in soil

Mobility

Hazardous ingredients

ridzar dodo ingrediento	
methyl methacrylate	
Mobility	Source
Terrestrial Compartment Not relevant	Company data

12.5 Results of PBT and vPvB assessment

Results of PBT characteristics determination

methyl methacrylate	
Value	Source
This substance is not considered to be persistent,	Company data
bioaccumulating nor toxic (PBT).	

1,1 `-(p-Tolylimino)dipropan-2-ol	
Value	Source
This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).	Company data

1.4-Butandioldimethacrylate	
Value	Source

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This substance is not considered to be persistent,	Company data
bioaccumulating nor toxic (PBT).	

12.6 Endocrine disrupting properties

Harmful effects on the environment No known effect.

12.7 Other harmful effects

Further information on ecology We have no quantitative data concerning the ecological effects of this product.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Disposal considerations According to the European Waste Catalogue, Waste Codes are not product specif-

ic, but application specific. The following Waste Codes are only suggestions:

Waste Code 08 01 11* waste paint and varnish containing organic solvents or other danger-

ous substances

Uncleaned empty packaging Empty containers should be taken for local recycling or waste disposal. Dispose

of in accordance with local regulations.

SECTION 14: Transport information

	Land transport ADR/RID	Marine transport IMDG	Air transport ICAO/IATA
14.1 UN-No	1263	1263	1263
14.2 Description of the	PAINT	PAINT	PAINT
goods			
14.3 Transport hazard	3	3	3
class(es)			
14.4 Packaging group	II	11	II
Labels	<u> </u>	8	8
	3	3	3
Risk No.	33		
Category	2		
Factor	3		
Classification Code	F1		
SP 640	640D		
Tunnel restriction code	D/E		
EmS		F-E;_S-E	
Stowage category		В	
UN proper shipping name	UN 1263 PAINT	UN 1263 PAINT	UN 1263 Paint

14.7 Bulk transport by sea according to IMO instruments

Transport in bulk according to Annex II of MARPOL and the IBC Code

Not relevant

SECTION 15: Regulatory information

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

Additional regulations Additionally, observe any national regulations!

Classification in compliance with the

Industrial Safety Regulation

highly flammable

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SECTION 16: Other information

Relevant H-phrases H225: Highly flammable liquid and vapour.

H300: Fatal if swallowed. H315: Causes skin irritation.

H317: May cause an allergic skin reaction. H319: Causes serious eye irritation. H335: May cause respiratory irritation.

H412: Harmful to aquatic life with long lasting effects.

Wording of the hazard classes Flam. Liq.: Flammable liquid

STOT SE: Specific target organ toxicity - single exposure

Skin Irrit.: Skin irritation
Skin Sens.: Skin sensitization
Acute Tox.: Acute toxicity
Eye Irrit.: Serious eye irritation

Aquatic Chronic: Hazardous to the aquatic environment

Classification for mixtures and used evaluation method according to r

Classification	Evaluation
Flam. Liq. 2; H225	Calculated
Skin Irrit. 2; H315	Calculated
Skin Sens. 1; H317	Calculated
STOT SE 3; H335	Calculated

Recommended restrictions Reserved for industrial and professional use.

This information is provided in accordance with the current status of our knowledge and experience. The Safety Data Sheet describes products with a view to relevant safety requirements. This information does not constitute a warranty of properties, features or qualities.