

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Kisling - 1644 - Component B 1645

Revision date: 21.03.2025

Product code: 1644

Page 1 of 20

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

1.1. Product identifier

Kisling - 1644 - Component B 1645

UFI: N5J4-80GV-F000-ADX1

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

Use of the substance/mixture

Adhesives and sealants

Uses advised against

No information available.

1.3. Details of the supplier of the safety data sheet

Manufacturer

Company name:	Kisling AG	
Street:	Motorenstrasse 102	
Place:	CH-8620 Wetzikon	
Telephone:	+41 58 272 0 272	
E-mail:	customerservice@kisling.com	
Contact person:	Product Compliance	Telephone: +49 7940 5096 143
E-mail:	compliance@kisling.com	
Internet:	www.kisling.com	

Supplier

Company name:	Kisling (Deutschland) GmbH	
Street:	Salzstraße 15	
Place:	D-74676 Niedernhall	
Telephone:	+49 7940 50961 61	
E-mail:	customerservice@kisling.com	
Contact person:	Product Compliance	Telephone: +49 7940 5096 143
E-mail:	compliance@kisling.com	
Internet:	www.kisling.com	

1.4. Emergency telephone number: 24 hr. emergency phone number +1 872 5888271 (KAR)
Medicines & Poisons Info Office +356 2545 6508

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Flam. Liq. 2; H225
Skin Irrit. 2; H315
Eye Irrit. 2; H319
Skin Sens. 1; H317
STOT SE 3; H335

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1272/2008

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Kisling - 1644 - Component B 1645

Revision date: 21.03.2025

Product code: 1644

Page 2 of 20

Hazard components for labelling

methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)
methacrylic acid; 2-methylpropenoic acid
Zinc methacrylate
1,3-bis[12-hydroxy-octadecamide-N-methylene]-benzene
Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine
Silicone acrylate

Signal word: Danger

Pictograms:



Hazard statements

H225 Highly 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.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280 Wear protective gloves and eye protection/face protection.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P403+P235 Store in a well-ventilated place. Keep cool.

Labelling of packages where the contents do not exceed 125 ml

Signal word: Danger

Pictograms:



Hazard statements

H317

Precautionary statements

P280-P333+P313

2.3. Other hazards

No data available

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixture of substances listed below with nonhazardous components.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Kisling - 1644 - Component B 1645

Revision date: 21.03.2025

Product code: 1644

Page 3 of 20

Relevant ingredients

CAS No	Chemical name	Quantity
	EC No	
	Index No	
	REACH No	
	Classification (Regulation (EC) No 1272/2008)	
80-62-6	methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate	50 - < 100 %
	201-297-1	607-035-00-6
	Flam. Liq. 2, Skin Irrit. 2, Skin Sens. 1, STOT SE 3; H225 H315 H317 H335	
82339-26-2	Poly(oxy-1,4-butanediyl), alpha-hydro-omega-hydroxy-, polymer with 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane, 2-hydroxyethyl methacrylate-blocked	5 - < 15 %
	817-894-0	
	Skin Irrit. 2, Eye Irrit. 2; H315 H319	
25068-38-6	reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)	1 - < 5 %
	500-033-5	603-074-00-8
	01-2119456619-26	
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, Aquatic Chronic 2; H315 H319 H317 H411	
79-41-4	methacrylic acid; 2-methylpropenoic acid	1 - < 5 %
	201-204-4	607-088-00-5
	01-2119463884-26	
	Acute Tox. 3, Acute Tox. 4, Acute Tox. 4, Skin Corr. 1A, Eye Dam. 1, STOT SE 3; H311 H332 H302 H314 H318 H335	
52628-03-2	2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, phosphate	1 - < 5 %
	258-053-2	
	Skin Irrit. 2, Eye Dam. 1; H315 H318	
142-90-5	dodecyl methacrylate	1 - < 5 %
	205-570-6	607-247-00-9
	STOT SE 3; H335	
13189-00-9	Zinc methacrylate	0.1 - < 1 %
	236-144-8	01-2119976363-30
	Acute Tox. 4, Eye Irrit. 2, Skin Sens. 1B, Aquatic Acute 1; H302 H319 H317 H400	
911674-82-3	1,3-bis[12-hydroxy-octadecamide-N-methylene]-benzene	0.1 - < 1 %
	423-300-7	01-0000016979-49
	Skin Sens. 1, Aquatic Chronic 4; H317 H413	
38668-48-3	1,1'-(p-tolylimino)dipropan-2-ol	0.1 - < 1 %
	254-075-1	01-2119980937-17
	Acute Tox. 2, Eye Irrit. 2, Aquatic Chronic 3; H300 H319 H412	
100545-48-0	Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	0.1 - < 1 %
	309-629-8	01-2119979085-27
	Skin Sens. 1, Aquatic Chronic 3; H317 H412	
125455-52-9	Silicone acrylate	0.1 - < 1 %
	603-070-6	
	Skin Sens. 1B; H317	
99-97-8	N,N-dimethyl-p-toluidine	0.1 - < 1 %
	202-805-4	612-056-00-9
	01-2119956633-31	
	Acute Tox. 3, Acute Tox. 3, Acute Tox. 3, STOT RE 2, Aquatic Chronic 3; H331 H311 H301 H373 H412	

Full text of H and EUH statements: see section 16.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Kisling - 1644 - Component B 1645

Revision date: 21.03.2025

Product code: 1644

Page 4 of 20

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
80-62-6	201-297-1	methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate	50 - < 100 %
		inhalation: LC50 = 29,8 mg/l (vapours); dermal: LD50 = > 5000 mg/kg; oral: LD50 = ca. 7900 mg/kg	
25068-38-6	500-033-5	reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)	1 - < 5 %
		Skin Irrit. 2; H315: >= 5 - 100 Eye Irrit. 2; H319: >= 5 - 100	
79-41-4	201-204-4	methacrylic acid; 2-methylpropenoic acid	1 - < 5 %
		inhalation: LC50 = 7,1 mg/l (vapours); inhalation: ATE = 1.5 mg/l (dusts or mists); dermal: LD50 = 500 mg/kg; oral: LD50 = 1320 mg/kg Eye Dam. 1; H318: >= 3 - 100 Eye Irrit. 2; H319: >= - < 3 STOT SE 3; H335: >= 1 - 100	
52628-03-2	258-053-2	2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, phosphate	1 - < 5 %
		oral: LD50 = > 2000 mg/kg	
142-90-5	205-570-6	dodecyl methacrylate	1 - < 5 %
		dermal: LD50 = > 3000 mg/kg; oral: LD50 = > 5000 mg/kg STOT SE 3; H335: >= 10 - 100	
13189-00-9	236-144-8	Zinc methacrylate	0.1 - < 1 %
		inhalation: LC50 = > 5.32 mg/l (dusts or mists); oral: LD50 = ca. 500 mg/kg Aquatic Acute 1; H400: M=1	
38668-48-3	254-075-1	1,1'-(p-tolylimino)dipropan-2-ol	0.1 - < 1 %
		dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 25 - < 200 mg/kg	
99-97-8	202-805-4	N,N-dimethyl-p-toluidine	0.1 - < 1 %
		inhalation: ATE = 3 mg/l (vapours); inhalation: ATE = 0.5 mg/l (dusts or mists); dermal: ATE = 300 mg/kg; oral: ATE = 100 mg/kg	

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

No special measures are necessary.

After inhalation

Provide fresh air.

After contact with skin

Gently wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.

After ingestion

Do NOT induce vomiting. Rinse mouth thoroughly with water. IF SWALLOWED: Immediately call a doctor.

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

Irritant — skin irritation and eye damage

May cause respiratory irritation. Dyspnoea.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

alcohol resistant foam, Carbon dioxide (CO₂), Dry extinguishing powder

Unsuitable extinguishing media

Full water jet.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Kisling - 1644 - Component B 1645

Revision date: 21.03.2025

Product code: 1644

Page 5 of 20

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products, Flammable vapours can accumulate in steam space of closed systems.

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information

Co-ordinate fire-fighting measures to the fire surroundings. Use water spray jet to protect personnel and to cool endangered containers. Evacuate area.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Use personal protection equipment. See protective measures under point 7 and 8.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

For containment

Prevent spread over a wide area (e.g. by containment or oil barriers). Retain contaminated washing water and dispose it. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

For cleaning up

Soak up inert absorbent and dispose as waste requiring special attention.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Use only in well-ventilated areas. Keep away from sources of ignition - No smoking.

Avoid contact with skin, eyes and clothes. People who suffer from skin sensitization problems, asthma, allergies, chronic or recurring respiratory illnesses should not be deployed in any process using this mixture.

Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff.

Further information on handling

Keep only in the original container in a cool, well-ventilated place.

Never use pressure to empty container. Do not allow to enter into surface water or drains.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed and in a well-ventilated place.

Hints on joint storage

No special measures are necessary.

Further information on storage conditions

No special measures are necessary.

SECTION 8: Exposure controls/personal protection

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Kisling - 1644 - Component B 1645

Revision date: 21.03.2025

Product code: 1644

Page 6 of 20

8.1. Control parameters

Occupational exposure limit values

CAS No	Name of agent	ppm	mg/m ³	fib/cm ³	Category	Origin
80-62-6	Methyl methacrylate	50	-		TWA (8 h)	
		100	-		STEL (15 min)	

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Kisling - 1644 - Component B 1645

Revision date: 21.03.2025

Product code: 1644

Page 7 of 20

DNEL/DMEL values

CAS No	Name of agent	Exposure route	Effect	Value
80-62-6	methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate			
Worker DNEL, long-term		inhalation	systemic	348,4 mg/m ³
Worker DNEL, long-term		inhalation	local	208 mg/m ³
Worker DNEL, acute		inhalation	local	416 mg/m ³
Worker DNEL, long-term		dermal	systemic	13,67 mg/kg bw/day
Worker DNEL, long-term		dermal	local	1,5 mg/cm ²
Worker DNEL, acute		dermal	local	1,5 mg/cm ²
Consumer DNEL, long-term		inhalation	systemic	74,3 mg/m ³
Consumer DNEL, long-term		inhalation	local	104 mg/m ³
Consumer DNEL, acute		inhalation	local	208 mg/m ³
Consumer DNEL, long-term		dermal	systemic	8,2 mg/kg bw/day
Consumer DNEL, long-term		dermal	local	1,5 mg/cm ²
Consumer DNEL, acute		dermal	local	1,5 mg/cm ²
Consumer DNEL, long-term		oral	systemic	8,2 mg/kg bw/day
79-41-4	methacrylic acid; 2-methylpropenoic acid			
Worker DNEL, long-term		inhalation	systemic	39,3 mg/m ³
Worker DNEL, long-term		inhalation	local	44 mg/m ³
Worker DNEL, long-term		dermal	systemic	4,25 mg/kg bw/day
Worker DNEL, long-term		dermal	local	0,38 mg/cm ²
Consumer DNEL, long-term		inhalation	systemic	11,7 mg/m ³
Consumer DNEL, long-term		inhalation	local	8,8 mg/m ³
Consumer DNEL, long-term		dermal	systemic	5,35 mg/kg bw/day
Consumer DNEL, long-term		dermal	local	0,23 mg/cm ²
Consumer DNEL, long-term		oral	systemic	5,35 mg/kg bw/day
52628-03-2	2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, phosphate			
Worker DNEL, long-term		inhalation	systemic	7,04 mg/m ³
Consumer DNEL, long-term		inhalation	systemic	1,74 mg/m ³
142-90-5	dodecyl methacrylate			
Worker DNEL, long-term		dermal	systemic	41.66 mg/kg bw/day
Consumer DNEL, long-term		dermal	systemic	25 mg/kg bw/day
13189-00-9	Zinc methacrylate			
Worker DNEL, long-term		inhalation	systemic	5.28 mg/m ³
Worker DNEL, long-term		dermal	systemic	0.749 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	0.931 mg/m ³
Consumer DNEL, long-term		dermal	systemic	0.268 mg/kg bw/day

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Kisling - 1644 - Component B 1645

Revision date: 21.03.2025

Product code: 1644

Page 8 of 20

Consumer DNEL, long-term	oral	systemic	0.268 mg/kg bw/day
38668-48-3	1,1'-(p-tolylimino)dipropan-2-ol		
Worker DNEL, long-term	inhalation	systemic	2.47 mg/m ³
Worker DNEL, long-term	dermal	systemic	0.7 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	0.25 mg/kg bw/day
100545-48-0	Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine		
Worker DNEL, long-term	inhalation	local	0.308 mg/m ³
Consumer DNEL, long-term	inhalation	local	0.055 mg/m ³
99-97-8	N,N-dimethyl-p-toluidine		
Worker DNEL, long-term	inhalation	systemic	0,128 mg/m ³
Worker DNEL, long-term	dermal	systemic	0,624 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	0,336 mg/m ³
Consumer DNEL, long-term	dermal	systemic	0,223 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	0,02 mg/kg bw/day

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Kisling - 1644 - Component B 1645

Revision date: 21.03.2025

Product code: 1644

Page 9 of 20

PNEC values

CAS No	Name of agent	Value
Environmental compartment		
80-62-6	methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate	
Freshwater		0,94 mg/l
Freshwater (intermittent releases)		0,69 mg/l
Marine water		0,094 mg/l
Freshwater sediment		10,2 mg/kg
Marine sediment		1,02 mg/kg
Micro-organisms in sewage treatment plants (STP)		10 mg/l
Soil		1,48 mg/kg
79-41-4	methacrylic acid; 2-methylpropenoic acid	
Freshwater		0,82 mg/l
Freshwater (intermittent releases)		0,45 mg/l
Marine water		0,082 mg/l
Freshwater sediment		3,09 mg/kg
Marine sediment		0,309 mg/kg
Micro-organisms in sewage treatment plants (STP)		100 mg/l
Soil		0,137 mg/kg
52628-03-2	2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, phosphate	
Freshwater		0,068 mg/l
Freshwater (intermittent releases)		0,68 mg/l
Marine water		0,007 mg/l
Freshwater sediment		0,481 mg/kg
Marine sediment		0,048 mg/kg
Micro-organisms in sewage treatment plants (STP)		0,546 mg/l
Soil		0,056 mg/kg
13189-00-9	Zinc methacrylate	
Freshwater		0.00056 mg/l
Freshwater (intermittent releases)		0.0056 mg/l
Freshwater sediment		6.14 mg/kg
Marine sediment		0.614 mg/kg
Micro-organisms in sewage treatment plants (STP)		10 mg/l
Soil		1.23 mg/kg
38668-48-3	1,1'-(p-tolylimino)dipropan-2-ol	
Freshwater		0.017 mg/l
Freshwater (intermittent releases)		0.17 mg/l
Marine water		0.002 mg/l
Freshwater sediment		0.163 mg/kg
Marine sediment		0.016 mg/kg
Micro-organisms in sewage treatment plants (STP)		199.5 mg/l
Soil		0.023 mg/kg
100545-48-0	Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Kisling - 1644 - Component B 1645

Revision date: 21.03.2025

Product code: 1644

Page 10 of 20

Freshwater sediment	0.058 mg/kg
Marine sediment	0.0058 mg/kg
Soil	0.484 mg/kg
99-97-8	N,N-dimethyl-p-toluidine
Freshwater	0,153 mg/l
Freshwater (intermittent releases)	0,153 mg/l
Marine water	0,015 mg/l
Freshwater sediment	45,378 mg/kg
Marine sediment	45,378 mg/kg
Micro-organisms in sewage treatment plants (STP)	4,286 mg/l
Soil	18,677 mg/kg

8.2. Exposure controls



Appropriate engineering controls

Provide adequate ventilation as well as local exhaust at critical locations.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear eye/face protection.

Hand protection

Wear protective gloves.

Breakthrough times and swelling properties of the material must be taken into consideration.

NBR (Nitrile rubber) 0,4 mm, Breakthrough time: 480 min

EN ISO 374

Skin protection

Avoid contact with skin, eyes and clothes.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls

Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	cream
Odour:	characteristic
Odour threshold:	not determined

Melting point/freezing point:	not determined	Test method
Boiling point or initial boiling point and boiling range:	> 100 °C	
Flammability:	not determined	not applicable
Lower explosion limits:	not determined	
Upper explosion limits:	not determined	

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Kisling - 1644 - Component B 1645

Revision date: 21.03.2025

Product code: 1644

Page 11 of 20

Flash point:	10 °C
Auto-ignition temperature:	not determined
Decomposition temperature:	not determined
pH-Value:	not determined
Viscosity / kinematic:	not determined
Water solubility:	practically insoluble
Solubility in other solvents:	not determined
Partition coefficient n-octanol/water:	not determined
Vapour pressure: (at 20 °C)	37 hPa
Density (at 20 °C):	1,03 g/cm ³
Relative density:	not determined
Relative vapour density:	not determined

9.2. Other information

Information with regard to physical hazard classes

Explosive properties

The product is not: Explosive.

Oxidizing properties

not determined

Other safety characteristics

Evaporation rate:

not determined

Solid content:

not determined

Viscosity / dynamic:

100.000 - 250.000 mPa·s

SECTION 10: Stability and reactivity

10.1. Reactivity

No known hazardous reactions.

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

Thermal decomposition can lead to the escape of irritating gases and vapours.

Vapours can form explosive mixtures with air.

10.4. Conditions to avoid

No information available.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

No known hazardous decomposition products.

Further information

No data available

SECTION 11: Toxicological information

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

Toxicokinetics, metabolism and distribution

No data available

Acute toxicity

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

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Kisling - 1644 - Component B 1645

Revision date: 21.03.2025

Product code: 1644

Page 12 of 20

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 5000 mg/kg; ATE (inhalation vapour) > 50 mg/l; ATE (inhalation dust/mist) > 12.5 mg/l

CAS No	Chemical name					
	Exposure route	Dose	Species	Source	Method	
80-62-6	methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate					
	oral	LD50 mg/kg	ca. 7900	Rat	J. Ind. Hyg. Toxicol. 23: 343-351 (1941)	Study to assess the acute oral toxicity
	dermal	LD50 mg/kg	> 5000	Rabbit	Study report (1982)	OECD Guideline 402
	inhalation (4 h) vapour	LC50	29,8 mg/l	Rat	J. Dent. Res. 59: 1074 (1980)	Study to assess the acute inhalative tox
79-41-4	methacrylic acid; 2-methylpropenoic acid					
	oral	LD50 mg/kg	1320	Rat	Study report (1977)	OECD Guideline 401
	dermal	LD50 mg/kg	500	Rabbit	Pre-supplier/manufacturer	
	inhalation (4 h) vapour	LC50	7,1 mg/l	Rat	Pre-supplier/manufacturer	OECD 403
	inhalation dust/mist	ATE	1.5 mg/l			
52628-03-2	2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, phosphate					
	oral	LD50 mg/kg	> 2000	Rat	Study report (2013)	OECD Guideline 425
142-90-5	dodecyl methacrylate					
	oral	LD50 mg/kg	> 5000	Rat	Study report (1988)	OECD Guideline 401
	dermal	LD50 mg/kg	> 3000	Rabbit	Study report (1973)	other: OSHA Toxicity Screening Test
13189-00-9	Zinc methacrylate					
	oral	LD50 mg/kg	ca. 500	Rat	Study report (2008)	OECD Guideline 423
	inhalation (4 h) dust/mist	LC50 mg/l	> 5.32	Rat	Study report (2013)	OECD Guideline 436
38668-48-3	1,1'-(p-tolylimino)dipropan-2-ol					
	oral	LD50 mg/kg	> 25 - < 200	Rat	Study report (2001)	OECD Guideline 423
	dermal	LD50 mg/kg	> 2000	Rat	Study report (2012)	OECD Guideline 402
99-97-8	N,N-dimethyl-p-toluidine					
	oral	ATE mg/kg	100			
	dermal	ATE mg/kg	300			
	inhalation vapour	ATE	3 mg/l			
	inhalation dust/mist	ATE	0.5 mg/l			

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Kisling - 1644 - Component B 1645

Revision date: 21.03.2025

Product code: 1644

Page 13 of 20

Irritation and corrosivity

Skin corrosion/irritation: Causes skin irritation. (On basis of test data)

Serious eye damage/eye irritation: Causes serious eye irritation. (On basis of test data)

Sensitising effects

May cause an allergic skin reaction. (methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight \leq 700); Zinc methacrylate; 1,3-bis[12-hydroxy-octadecamide-N-methylene]-benzene; Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine; Silicone acrylate)

Carcinogenic/mutagenic/toxic effects for reproduction

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. (methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methacrylic acid; 2-methylpropenoic acid)

STOT-repeated exposure

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

Aspiration hazard

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

Information on likely routes of exposure

No data available

Specific effects in experiment on an animal

No data available

Additional information on tests

No data available

Practical experience

May be harmful if swallowed, in contact with skin or if inhaled.

11.2. Information on other hazards

Other information

No data available

Further information

No data available

SECTION 12: Ecological information

12.1. Toxicity

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

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Kisling - 1644 - Component B 1645

Revision date: 21.03.2025

Product code: 1644

Page 14 of 20

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
80-62-6	methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate					
	Acute fish toxicity	LC50 > 79 mg/l	96 h	Oncorhynchus mykiss	REACH Registration Dossier	EPA OTS 797.1400
	Acute algae toxicity	ErC50 > 110 mg/l	72 h	Raphidocelis subcapitata	REACH Registration Dossier	OECD Guideline 201
	Acute crustacea toxicity	EC50 69 mg/l	48 h	Daphnia magna	REACH Registration Dossier	EPA OTS 797.1300
	Fish toxicity	NOEC 9,4 mg/l	35 d	Danio rerio	REACH Registration Dossier	OECD Guideline 210
	Crustacea toxicity	NOEC 37 mg/l	21 d	Daphnia magna	REACH Registration Dossier	OECD Guideline 211
	Acute bacteria toxicity	EC50 3162 mg/l ()	3 h	Activated sludge	Publication (2008)	ISO 8192
79-41-4	methacrylic acid; 2-methylpropenoic acid					
	Acute fish toxicity	LC50 85 mg/l	96 h	Oncorhynchus mykiss	REACH Registration Dossier	EPA OTS 797.1400
	Acute algae toxicity	ErC50 45 mg/l	72 h	Raphidocelis subcapitata	REACH Registration Dossier	OECD Guideline 201
	Acute crustacea toxicity	EC50 > 130 mg/l	48 h	Daphnia magna	REACH Registration Dossier	EPA OTS 797.1300
	Fish toxicity	NOEC 10 mg/l	35 d	Danio rerio	REACH Registration Dossier	OECD Guideline 210
	Crustacea toxicity	NOEC 53 mg/l	21 d	Daphnia magna	REACH Registration Dossier	OECD Guideline 211
	Acute bacteria toxicity	EC50 13500 mg/l ()	3 h	Activated sludge	Publication (2008)	ISO 8192
52628-03-2	2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, phosphate					
	Acute fish toxicity	LC50 > 112 mg/l	96 h	Oncorhynchus mykiss	Study report (2013)	OECD Guideline 203
	Acute algae toxicity	ErC50 > 120 mg/l	72 h	Raphidocelis subcapitata	Study report (2013)	OECD Guideline 201
142-90-5	dodecyl methacrylate					
	Acute fish toxicity	LC50 > 10000 mg/l	96 h	Danio rerio	REACH Registration Dossier	OECD Guideline 203
	Acute algae toxicity	ErC50 > 0.01 mg/l	72 h	Desmodesmus subspicatus	REACH Registration Dossier	OECD Guideline 201

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Kisling - 1644 - Component B 1645

Revision date: 21.03.2025

Product code: 1644

Page 15 of 20

	Crustacea toxicity	NOEC >= 0.00573 mg/l	21 d	Daphnia magna	REACH Registration Dossier	OECD Guideline 211
	Acute bacteria toxicity	EC50 mg/l () > 10000	3 h	Activated sludge	REACH Registration Dossier	OECD Guideline 209
13189-00-9	Zinc methacrylate					
	Acute fish toxicity	LC50 mg/l > 2.1	96 h	Oncorhynchus mykiss	REACH Registration Dossier	OECD Guideline 203
	Acute algae toxicity	ErC50 mg/l ca. 0.56	72 h	Raphidocelis subcapitata	REACH Registration Dossier	OECD Guideline 201
	Acute crustacea toxicity	EC50 mg/l ca. 8.7	48 h	Daphnia magna	REACH Registration Dossier	OECD Guideline 202
38668-48-3	1,1'-(p-tolylimino)dipropan-2-ol					
	Acute fish toxicity	LC50 17 mg/l	96 h	Danio rerio	Study report (1984)	other: Guideline F.1.1. of UBA
	Acute algae toxicity	ErC50 245 mg/l	72 h	Desmodesmus subspicatus	Study report (2012)	OECD Guideline 201
	Acute crustacea toxicity	EC50 mg/l 28.8	48 h	Daphnia magna	Study report (1999)	OECD Guideline 202
100545-48-0	Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine					
	Acute fish toxicity	LL50 mg/l > 10	96 h	Oncorhynchus mykiss	Study report (2013)	OECD Guideline 203
	Acute algae toxicity	ErC50 mg/l > 100	72 h	Raphidocelis subcapitata	Study report (2013)	EU Method C.3
	Acute crustacea toxicity	EL50 mg/l > 10	48 h	Daphnia magna	Study report (2013)	OECD Guideline 202
	Crustacea toxicity	NOEC mg/l >= 10	21 d	Daphnia magna	Study report (2018)	OECD Guideline 211
99-97-8	N,N-dimethyl-p-toluidine					
	Acute fish toxicity	LC50 mg/l 52,8	96 h	Pimephales promelas	REACH Registration Dossier	other: Standard test procedure ASTM, 198
	Acute algae toxicity	ErC50 mg/l 23,69	72 h	Raphidocelis subcapitata	REACH Registration Dossier	OECD Guideline 201
	Acute crustacea toxicity	EC50 mg/l 15,27	48 h	Daphnia magna	REACH Registration Dossier	other: Modeling database
	Acute bacteria toxicity	EC50 () 100 mg/l	3 h	WoE 2. domestic activated sludge, WoE 3. Pseudomon	REACH Registration Dossier	other: as mentioned below

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Kisling - 1644 - Component B 1645

Revision date: 21.03.2025

Product code: 1644

Page 16 of 20

No data available

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
80-62-6	methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate	1,38
79-41-4	methacrylic acid; 2-methylpropenoic acid	0,93
52628-03-2	2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, phosphate	1 - < 2,72
142-90-5	dodecyl methacrylate	6.68
13189-00-9	Zinc methacrylate	< 0.3
38668-48-3	1,1'-(p-tolylimino)dipropan-2-ol	2.1
100545-48-0	Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	>= 5.86
99-97-8	N,N-dimethyl-p-toluidine	2,81

BCF

CAS No	Chemical name	BCF	Species	Source
142-90-5	dodecyl methacrylate	37	Danio rerio	REACH Registration D
100545-48-0	Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	56.23	not specified	Other company data (
99-97-8	N,N-dimethyl-p-toluidine	33	Fish	REACH Registration D

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Dispose of waste according to applicable legislation.

List of Wastes Code - residues/unused products

080410 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants other than those mentioned in 08 04 09

List of Wastes Code - used product

080410 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants other than those mentioned in 08 04 09

List of Wastes Code - contaminated packaging

080410 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants other than those mentioned in 08 04 09

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Kisling - 1644 - Component B 1645

Revision date: 21.03.2025

Product code: 1644

Page 17 of 20

Contaminated packaging

Completely emptied packages can be recycled. Dispose of waste according to applicable legislation.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number: UN 1133
14.2. UN proper shipping name: ADHESIVES
14.3. Transport hazard class(es): 3
14.4. Packing group: II
Hazard label: 3



Classification code: F1
Special Provisions: 640D
Limited quantity: 5 L
Excepted quantity: E2
Transport category: 2
Hazard No: 33
Tunnel restriction code: D/E

Inland waterways transport (ADN)

14.1. UN number or ID number: UN 1133
14.2. UN proper shipping name: Adhesives
14.3. Transport hazard class(es): 3
14.4. Packing group: II
Hazard label: 3



Classification code: F1
Special Provisions: 640D
Limited quantity: 5 L
Excepted quantity: E2

Marine transport (IMDG)

14.1. UN number or ID number: UN 1133
14.2. UN proper shipping name: ADHESIVES
14.3. Transport hazard class(es): 3
14.4. Packing group: II
Hazard label: 3



Special Provisions: -
Limited quantity: 5 L
Excepted quantity: E2
EmS: F-E, S-D

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 1133
14.2. UN proper shipping name: ADHESIVES

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Kisling - 1644 - Component B 1645

Revision date: 21.03.2025

Product code: 1644

Page 18 of 20

14.3. Transport hazard class(es): 3

14.4. Packing group: II

Hazard label: 3



Special Provisions: A3

Limited quantity Passenger: 1 L

Passenger LQ: Y341

Excepted quantity: E2

IATA-packing instructions - Passenger: 353

IATA-max. quantity - Passenger: 5 L

IATA-packing instructions - Cargo: 364

IATA-max. quantity - Cargo: 60 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

Warning : Organic peroxides !

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40, Entry 75

Directive 2010/75/EU on industrial emissions: 80.46 % (828.738 g/l)

Information according to Directive

2012/18/EU (SEVESO III): P5c FLAMMABLE LIQUIDS

National regulatory information

National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Water hazard class (D): 2 - obviously hazardous to water

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Kisling - 1644 - Component B 1645

Revision date: 21.03.2025

Product code: 1644

Page 19 of 20

Abbreviations and acronyms

Flam. Liq: Flammable liquid
Acute Tox: Acute toxicity
Skin Corr: Skin corrosion
Skin Irrit: Skin irritation
Eye Dam: Eye damage
Eye Irrit: Eye irritation
Skin Sens: Skin sensitisation
STOT SE: Specific target organ toxicity - single exposure
STOT RE: Specific target organ toxicity - repeated exposure
Aquatic Acute: Acute aquatic hazard
Aquatic Chronic: Chronic aquatic hazard
CLP: Classification, labelling and Packaging
REACH: Registration, Evaluation and Authorization of Chemicals
GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals
UN: United Nations
CAS: Chemical Abstracts Service
DNEL: Derived No Effect Level
DMEL: Derived Minimal Effect Level
PNEC: Predicted No Effect Concentration
ATE: Acute toxicity estimate
LC50: Lethal concentration, 50%
LD50: Lethal dose, 50%
LL50: Lethal loading, 50%
EL50: Effect loading, 50%
EC50: Effective Concentration 50%
ErC50: Effective Concentration 50%, growth rate
NOEC: No Observed Effect Concentration
BCF: Bio-concentration factor
PBT: persistent, bioaccumulative, toxic
vPvB: very persistent, very bioaccumulative
ADR: Accord européen sur le transport des marchandises dangereuses par Route
(European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID: Regulations concerning the international carriage of dangerous goods by rail
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
(Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)
IMDG: International Maritime Code for Dangerous Goods
EmS: Emergency Schedules
MFAG: Medical First Aid Guide
IATA: International Air Transport Association
ICAO: International Civil Aviation Organization
MARPOL: International Convention for the Prevention of Marine Pollution from Ships
IBC: Intermediate Bulk Container
VOC: Volatile Organic Compounds
SVHC: Substance of Very High Concern

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Kisling - 1644 - Component B 1645

Revision date: 21.03.2025

Product code: 1644

Page 20 of 20

Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

Classification	Classification procedure
Flam. Liq. 2; H225	On basis of test data
Skin Irrit. 2; H315	On basis of test data
Eye Irrit. 2; H319	On basis of test data
Skin Sens. 1; H317	Calculation method
STOT SE 3; H335	Calculation method

Relevant H and EUH statements (number and full text)

H225	Highly flammable liquid and vapour.
H300	Fatal if swallowed.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic 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.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)