

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Kisling - 1914 - component B 1915

Revision date: 13.03.2024

Product code: 1914

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

1.1. Product identifier

Kisling - 1914 - component B 1915

UFI: MU50-R0MG-P00K-1GU1

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
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: Dr. Hans Götz 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. 3; H226
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

Hazard components for labelling

methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate
2-hydroxyethyl methacrylate
2-aminoethanol; ethanolamine
Phenothiazine
formaldehyde ... %

Signal word: Warning

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Pictograms:



Hazard statements

H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

Precautionary statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261	Avoid breathing Vapour.
P280	Wear protective gloves and eye/face protection.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P403+P235	Store in a well-ventilated place. Keep cool.

Labelling of packages where the contents do not exceed 125 ml

Signal word: Warning

Pictograms:



Hazard statements

H317

Precautionary statements

P261-P280-P333+P313-P362+P364

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixture of substances listed below with nonhazardous components.

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Hazardous components

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			30 - < 50 %
	201-297-1	607-035-00-6		
	Flam. Liq. 2, Skin Irrit. 2, Skin Sens. 1, STOT SE 3; H225 H315 H317 H335			
868-77-9	2-hydroxyethyl methacrylate			30 - < 50 %
	212-782-2	607-124-00-X	01-2119490169-29	
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1; H315 H319 H317			
79-41-4	methacrylic acid; 2-methylpropenoic acid			0.1 - < 1 %
	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			
141-43-5	2-aminoethanol; ethanolamine			0.1 - < 1 %
	205-483-3	603-030-00-8		
	Acute Tox. 4, Acute Tox. 4, Acute Tox. 4, Skin Corr. 1B, Skin Sens. 1; H332 H312 H302 H314 H317			
92-84-2	Phenothiazine			0.1 - < 1 %
	202-196-5		01-2119488529-19	
	Acute Tox. 4, Skin Sens. 1, STOT RE 2, Aquatic Chronic 1; H302 H317 H373 H410			
50-00-0	formaldehyde ... %			< 0.1 %
	200-001-8	605-001-00-5		
	Carc. 1B, Muta. 2, Acute Tox. 3, Acute Tox. 3, Acute Tox. 3, Skin Corr. 1B, Skin Sens. 1; H350 H341 H331 H311 H301 H314 H317			

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

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	30 - < 50 %
		inhalation: LC50 = 29,8 mg/l (vapours); dermal: LD50 = > 5000 mg/kg; oral: LD50 = ca. 7900 mg/kg	
868-77-9	212-782-2	2-hydroxyethyl methacrylate	30 - < 50 %
		dermal: LD50 = >3000 mg/kg; oral: LD50 = 5050 mg/kg	
79-41-4	201-204-4	methacrylic acid; 2-methylpropenoic acid	0.1 - < 1 %
		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	
141-43-5	205-483-3	2-aminoethanol; ethanolamine	0.1 - < 1 %
		inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1.5 mg/l (dusts or mists); dermal: LD50 = 1025 mg/kg; oral: LD50 = 1515 mg/kg STOT SE 3; H335: >= 5 - 100	
92-84-2	202-196-5	Phenothiazine	0.1 - < 1 %
		dermal: LD50 = > 2000 mg/kg; oral: LD50 = 1370 mg/kg	
50-00-0	200-001-8	formaldehyde ... %	< 0.1 %
		inhalation: LC50 = < 463 mg/l (vapours); inhalation: ATE = 0.5 mg/l (dusts or mists); dermal: ATE = 300 mg/kg; oral: LD50 = 460 mg/kg Skin Corr. 1B; H314: >= 25 - 100 Skin Irrit. 2; H315: >= 5 - < 25 Eye Irrit. 2; H319: >= 5 - < 25 Skin Sens. 1; H317: >= 0.2 - 100 STOT SE 3; H335: >= 5 - 100	

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SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Take off immediately all contaminated clothing.

After inhalation

Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. Medical treatment necessary. When in doubt or if symptoms are observed, get medical advice.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary. After contact with skin, wash immediately with plenty of water and soap. In case of skin irritation, consult a physician.

After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing.

After ingestion

Observe risk of aspiration if vomiting occurs. Rinse mouth immediately and drink 1 glass of water. Do NOT induce vomiting. Get immediate medical advice/attention.

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

Treat symptomatically. No further relevant information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO₂), Dry extinguishing powder, Foam.

Unsuitable extinguishing media

Full water jet.

5.2. Special hazards arising from the substance or mixture

In case of fire and/or explosion do not breathe fumes.

5.3. Advice for firefighters

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

Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Remove all sources of ignition.

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 cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

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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.

Advice on protection against fire and explosion

Take precautionary measures against static discharges.

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.

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

none

Further information on storage conditions

Keep away from heat.

7.3. Specific end use(s)

No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit values

CAS No	Name of agent	ppm	mg/m³	fib/cm³	Category	Origin
141-43-5	2-Aminoethanol	1	2.5		TWA (8 h)	
		3	7.6		STEL (15 min)	
50-00-0	Formaldehyde	0.3	0.37		TWA (8 h)	
		0.6	0.74		STEL (15 min)	
80-62-6	Methyl methacrylate	50	-		TWA (8 h)	
		100	-		STEL (15 min)	

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DNEL/DMEL values

CAS No	Name of agent		
DNEL type	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
92-84-2	Phenothiazine		
Worker DNEL, long-term	inhalation	systemic	0,53 mg/m ³
Worker DNEL, acute	inhalation	systemic	1,59 mg/m ³
Worker DNEL, long-term	dermal	systemic	0,15 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	0,13 mg/m ³
Consumer DNEL, acute	inhalation	systemic	0,39 mg/m ³
Consumer DNEL, long-term	dermal	systemic	0,08 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	0,08 mg/kg bw/day
Consumer DNEL, acute	oral	systemic	0,24 mg/kg bw/day
50-00-0	formaldehyde ... %		
Worker DNEL, long-term	inhalation	systemic	9 mg/m ³

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Worker DNEL, long-term	inhalation	local	0.375 mg/m ³
Worker DNEL, acute	inhalation	local	0.75 mg/m ³
Worker DNEL, long-term	dermal	systemic	240 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	3.2 mg/m ³
Consumer DNEL, long-term	inhalation	local	0.1 mg/m ³
Consumer DNEL, long-term	dermal	systemic	102 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	4.1 mg/kg bw/day

PNEC values

CAS No	Name of agent	
Environmental compartment		Value
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
92-84-2	Phenothiazine	
Freshwater		0 mg/l
Freshwater (intermittent releases)		0,002 mg/l
Marine water		0 mg/l
Freshwater sediment		0,019 mg/kg
Marine sediment		0,002 mg/kg
Micro-organisms in sewage treatment plants (STP)		0,054 mg/l
Soil		0,023 mg/kg

8.2. Exposure controls



Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

Individual protection measures, such as personal protective equipment

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Eye/face protection

Suitable eye protection: goggles.

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Tested protective gloves must be worn.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Skin protection

Wear suitable protective clothing. The type of personal protection equipment has to be chosen based on the concentration and amount of the dangerous substance at the workplace.

Respiratory protection

In case of inadequate ventilation wear respiratory protection. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Liquid	
Colour:	green	
Odour:	characteristic	
Odour threshold:	not determined	
Melting point/freezing point:		not determined
Boiling point or initial boiling point and boiling range:		>100 °C
Flammability:		not applicable
Lower explosion limits:		2.1 vol. %
Upper explosion limits:		12.5 vol. %
Flash point:		37 °C
Auto-ignition temperature:		438 °C
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:		not determined
Density (at 20 °C):		0.9-1.1 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

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Viscosity / dynamic:
(at 25 °C)

15000 mPa·s

SECTION 10: Stability and reactivity

10.1. Reactivity

No further relevant information available.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

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

10.5. Incompatible materials

No further relevant information available.

10.6. Hazardous decomposition products

No further relevant information 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.

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) 50505 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

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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
868-77-9	2-hydroxyethyl methacrylate				
	oral	LD50 mg/kg 5050	Rat	Pre-supplier/manufacturer	
	dermal	LD50 mg/kg >3000	Rabbit	Pre-supplier/manufacturer	
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			
141-43-5	2-aminoethanol; ethanolamine				
	oral	LD50 mg/kg 1515	Rat		
	dermal	LD50 mg/kg 1025	Rabbit	IUCLID	
	inhalation vapour	ATE 11 mg/l			
	inhalation dust/mist	ATE 1.5 mg/l			
92-84-2	Phenothiazine				
	oral	LD50 mg/kg 1370	Rat	Study report (1977)	other: As outlined in "Appraisal of the
	dermal	LD50 mg/kg > 2000	Rat	Study report (2010)	OECD Guideline 402
50-00-0	formaldehyde ... %				
	oral	LD50 mg/kg 460	Rat	Kefo J Med 24: 19-37 (1975)	OECD Guideline 401
	dermal	ATE mg/kg 300			
	inhalation (4 h) vapour	LC50 mg/l < 463	Rat	Study report (2015)	OECD Guideline 403
	inhalation dust/mist	ATE 0.5 mg/l			

Irritation and corrosivity

Causes skin irritation.

Causes serious eye irritation.

Sensitising effects

May cause an allergic skin reaction. (methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; 2-hydroxyethyl methacrylate; 2-aminoethanol; ethanolamine; Phenothiazine; formaldehyde ... %)

Carcinogenic/mutagenic/toxic effects for reproduction

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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)

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.

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

Further information

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

SECTION 12: Ecological information

12.1. Toxicity

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

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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 mg/l) 3162	3 h	Activated sludge	Publication (2008)	ISO 8192
868-77-9	2-hydroxyethyl methacrylate					
	Acute fish toxicity	LC50 227 mg/l	96 h	Pimephales promelas	Pre-supplier/manu facturer	
	Acute crustacea toxicity	EC50 >380 mg/l	48 h	Daphnia magna (Big water flea)	Pre-supplier/manu facturer	
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 mg/l) 13500	3 h	Activated sludge	Publication (2008)	ISO 8192
141-43-5	2-aminoethanol; ethanolamine					
	Acute fish toxicity	LC50 150 mg/l	96 h	Oncorhynchus mykiss	IUCLID	
	Acute algae toxicity	ErC50 22 mg/l	72 h	Desmodesmus subspicatus		
	Acute crustacea toxicity	EC50 65 mg/l	48 h	Daphnia magna		
92-84-2	Phenothiazine					
	Acute fish toxicity	LC50 70,7 mg/l	96 h	Oncorhynchus mykiss	Study report (2010)	OECD Guideline 203
	Acute algae toxicity	ErC50 > 100 mg/l	72 h	Desmodesmus subspicatus	Study report (2010)	OECD Guideline 201

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50-00-0	formaldehyde ... %						
	Acute fish toxicity	LC50	24.1	96 h	Pimephales promelas	Center for Lake Superior Environmental S	OECD Guideline 203
	Acute algae toxicity	ErC50	3.48	72 h	Desmodesmus subspicatus	Ecotoxicol Environ Safety 54: 346-354 (2	OECD Guideline 201
	Acute crustacea toxicity	EC50	5.8 mg/l	48 h	Daphnia pulex	REACH Registration Dossier	OECD Guideline 202
	Acute bacteria toxicity	(EC50	19 mg/l)	3 h	Activated sludge	Chemosphere 14, 1239-1251 (1985)	OECD Guideline 209

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

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
868-77-9	2-hydroxyethyl methacrylate	0,47
79-41-4	methacrylic acid; 2-methylpropenoic acid	0,93
141-43-5	2-aminoethanol; ethanolamine	-1,91 (25°C)
92-84-2	Phenothiazine	ca. 3,78
50-00-0	formaldehyde ... %	0.35

BCF

CAS No	Chemical name	BCF	Species	Source
92-84-2	Phenothiazine	>= 310	Cyprinus carpio	Study report (1983)
50-00-0	formaldehyde ... %	< 1	Paralichthys olivaceus and Sebastes schlegeli	Aquaculture 194, 253

12.4. Mobility in soil

No further relevant information 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

Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

List of Wastes Code - residues/unused products

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080409 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 containing organic solvents or other hazardous substances; hazardous waste

List of Wastes Code - used product

080409 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 containing organic solvents or other hazardous substances; hazardous waste

List of Wastes Code - contaminated packaging

080409 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 containing organic solvents or other hazardous substances; hazardous waste

Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

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: III
Hazard label: 3



Classification code: F1
Limited quantity: 5 L
Excepted quantity: E1
Transport category: 3
Hazard No: 30
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: III
Hazard label: 3



Classification code: F1
Limited quantity: 5 L
Excepted quantity: E1

Marine transport (IMDG)

14.1. UN number or ID number: UN 1133

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14.2. UN proper shipping name: ADHESIVES
14.3. Transport hazard class(es): 3
14.4. Packing group: III
Hazard label: 3



Special Provisions: 223 955
Limited quantity: 5 L
Excepted quantity: E1
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
14.3. Transport hazard class(es): 3
14.4. Packing group: III
Hazard label: 3



Special Provisions: A3
Limited quantity Passenger: 10 L
Passenger LQ: Y344
Excepted quantity: E1
IATA-packing instructions - Passenger: 355
IATA-max. quantity - Passenger: 60 L
IATA-packing instructions - Cargo: 366
IATA-max. quantity - Cargo: 220 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

No information available.

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 28, Entry 40, Entry 75

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): 3 - highly hazardous to water

15.2. Chemical safety assessment

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

SECTION 16: Other information

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Abbreviations and acronyms

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
For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).
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
Muta: Germ cell mutagenicity
Carc: Carcinogenicity
STOT SE: Specific target organ toxicity - single exposure
STOT RE: Specific target organ toxicity - repeated exposure
Aquatic Chronic: Chronic aquatic hazard

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

Classification	Classification procedure
Flam. Liq. 3; H226	On basis of test data
Skin Irrit. 2; H315	Calculation method
Eye Irrit. 2; H319	Calculation method
Skin Sens. 1; H317	Calculation method
STOT SE 3; H335	Calculation method

Relevant H and EUH statements (number and full text)

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
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.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H373	May cause damage to organs through prolonged or repeated exposure.
H410	Very toxic to aquatic life with long lasting effects.

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations. 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.

Identified uses

No	Short title	LCS	SU	PC	PROC	ERC	AC	TF	Specification
1	Adhesives and sealants	PW, C	6a, 6b, 12, 18, 19	1	11, 19	4, 8a, 8c, 8d	4e, 4g, 5c, 6g, 7c, 7g, 8, 10, 11, 13	110	K+D

LCS: Life cycle stages	SU: Sectors of use
PC: Product categories	PROC: Process categories
ERC: Environmental release categories	AC: Article categories
TF: Technical functions	

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