

Safety Data Sheet

according to Regulation (EC) No 1907/2006

7430 Epoxy adhesive - 7429 hardener

Revision: 27.01.2026

Product code: 7429

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

1.1. Product identifier

7430 Epoxy adhesive - 7429 hardener

Further trade names

Product 7430: 7428 resin + 7429 Hardener

Product group:

UFI: GUJN-80FD-900W-1908

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

Use of the substance/mixture

Adhesives and sealants Hardener

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 (Contact person): 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 Contact person: 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

Repr. 2; H361d
Skin Corr. 1A; H314
Eye Dam. 1; H318
Skin Sens. 1; H317

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1272/2008

Hazard components for labelling

2-methylpentane-2,4-diol
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine
3,3,5-trimethylhexylenediamine

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N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine
Amines, polyethylenepoly-, triethylenetetramine fraction

Signal word: Danger

Pictograms:



Hazard statements

- H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H361d Suspected of damaging the unborn child.

Precautionary statements

- P260 Do not breathe Vapour.
P264 Wash hands thoroughly after handling.
P280 Wear protective gloves and eye protection/face protection.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER/doctor.

2.3. Other hazards

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

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixtures

Relevant ingredients

CAS No	Chemical name	Quantity
	EC No	Index No
	REACH No	
	Classification (Regulation (EC) No 1272/2008)	
107-41-5	2-methylpentane-2,4-diol	5 - < 15 %
	203-489-0	603-053-00-3
	01-2119539582-35	
	Repr. 2, Skin Irrit. 2, Eye Irrit. 2; H361d H315 H319	
68082-29-1	Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	5 - < 15 %
	500-191-5	01-2119972320-44
	Skin Irrit. 2, Eye Dam. 1, Skin Sens. 1, Aquatic Chronic 2; H315 H318 H317 H411	
25513-64-8	3,3,5-trimethylhexylenediamine	1 - < 5 %
	247-063-2	01-2119560598-25
	Acute Tox. 4, Skin Corr. 1A, Eye Dam. 1, Skin Sens. 1A; H302 H314 H318 H317	
10563-29-8	N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine	1 - < 5 %
	234-148-4	01-2119970376-29
	Acute Tox. 4, Skin Corr. 1A, Eye Dam. 1, Skin Sens. 1B; H302 H314 H318 H317	
104-15-4	p-toluenesulphonic acid (containing a maximum of 5 % H2SO4)	1 - < 5 %
	203-180-0	016-030-00-2
	01-2119538811-39	
	Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3; H302 H315 H319 H335	

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CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
90640-67-8	Amines, polyethylenepoly-, triethylenetetramine fraction			0.1 - < 1 %
	292-588-2		01-2119487919-13	
	Acute Tox. 4, Acute Tox. 4, Skin Corr. 1B, Eye Dam. 1, Skin Sens. 1, Aquatic Chronic 3; H312 H302 H314 H318 H317 H412			

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	
107-41-5	203-489-0	2-methylpentane-2,4-diol	5 - < 15 %
		dermal: LD50 = 8000 mg/kg; oral: LD50 = 3700 mg/kg	
68082-29-1	500-191-5	Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	5 - < 15 %
		dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 2000 mg/kg	
25513-64-8	247-063-2	3,3,5-trimethylhexylenediamine	1 - < 5 %
		oral: LD50 = 910 mg/kg Skin Corr. 1A; H314: >= 50 - 100 Skin Corr. 1B; H314: >= 5 - < 50	
10563-29-8	234-148-4	N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine	1 - < 5 %
		oral: LD50 = 1669 mg/kg	
104-15-4	203-180-0	p-toluenesulphonic acid (containing a maximum of 5 % H2SO4)	1 - < 5 %
		dermal: LD50 = > 2000 mg/kg; oral: LD50 = ca. 1410 mg/kg STOT SE 3; H335: >= 20 - 100	
90640-67-8	292-588-2	Amines, polyethylenepoly-, triethylenetetramine fraction	0.1 - < 1 %
		dermal: LD50 = 1465.4 mg/kg; oral: LD50 = 1861.9 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.

5.2. Special hazards arising from the substance or mixture

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

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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.

Do not wash equipment or storage containers.

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

8.1. Control parameters

DNEL/DMEL values

CAS No	Name of agent	Exposure route	Effect	Value
DNEL type				

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DNEL/DMEL values

CAS No	Name of agent	Exposure route	Effect	Value
107-41-5	2-methylpentane-2,4-diol			
Worker DNEL, long-term		inhalation	systemic	44.43 mg/m ³
Worker DNEL, long-term		inhalation	local	49 mg/m ³
Worker DNEL, acute		inhalation	local	98 mg/m ³
Worker DNEL, long-term		dermal	systemic	63 mg/kg bw/day
Consumer DNEL, long-term		dermal	systemic	22.5 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	2.25 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	7.83 mg/m ³
Consumer DNEL, long-term		inhalation	local	25 mg/m ³
Consumer DNEL, acute		inhalation	local	49 mg/m ³
68082-29-1	Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine			
Worker DNEL, long-term		inhalation	systemic	0.952 mg/m ³
Worker DNEL, long-term		dermal	systemic	0.272 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	0.169 mg/m ³
Consumer DNEL, long-term		oral	systemic	0.0972 mg/kg bw/day
Consumer DNEL, long-term		dermal	systemic	0.0972 mg/kg bw/day
25513-64-8	3,3,5-trimethylhexylenediamine			
Consumer DNEL, long-term		oral	systemic	0.05 mg/kg bw/day
10563-29-8	N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine			
Consumer DNEL, long-term		inhalation	local	0.65 mg/m ³
Worker DNEL, long-term		dermal	systemic	0.67 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	0.65 mg/m ³
Consumer DNEL, long-term		oral	systemic	0.2 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	3.7 mg/m ³
Worker DNEL, acute		inhalation	systemic	7.5 mg/m ³
Worker DNEL, long-term		inhalation	local	3.7 mg/m ³
Worker DNEL, acute		inhalation	local	7.5 mg/m ³
104-15-4	p-toluenesulphonic acid (containing a maximum of 5 % H ₂ SO ₄)			
Worker DNEL, long-term		inhalation	systemic	24.7 mg/m ³
Worker DNEL, long-term		dermal	systemic	7 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	4.35 mg/m ³
Consumer DNEL, long-term		dermal	systemic	2.5 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	2.5 mg/kg bw/day
90640-67-8	Amines, polyethylenepoly-, triethylenetetramine fraction			
Worker DNEL, long-term		inhalation	systemic	0.54 mg/m ³
Consumer DNEL, long-term		inhalation	systemic	0.096 mg/m ³
Consumer DNEL, long-term		oral	systemic	0.14 mg/kg bw/day

PNEC values

CAS No	Name of agent	Value
	Environmental compartment	
107-41-5	2-methylpentane-2,4-diol	
Freshwater		0.429 mg/l
Freshwater (intermittent releases)		4.29 mg/l
Marine water		0.043 mg/l
Freshwater sediment		1.59 mg/kg
Marine sediment		0.159 mg/kg
Micro-organisms in sewage treatment plants (STP)		20 mg/l

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PNEC values

CAS No	Name of agent	Value
Environmental compartment		
Soil		0.066 mg/kg
68082-29-1	Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	
Freshwater		0.004 mg/l
Freshwater (intermittent releases)		0.043 mg/l
Marine water		0 mg/l
Freshwater sediment		434.02 mg/kg
Marine sediment		43.4 mg/kg
Micro-organisms in sewage treatment plants (STP)		3.84 mg/l
Soil		86.78 mg/kg
25513-64-8	3,3,5-trimethylhexylenediamine	
Freshwater		0.102 mg/l
Freshwater (intermittent releases)		0.315 mg/l
Marine water		0.01 mg/l
Freshwater sediment		0.622 mg/kg
Marine sediment		0.062 mg/kg
Micro-organisms in sewage treatment plants (STP)		72 mg/l
Soil		10 mg/kg
10563-29-8	N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine	
Freshwater		0.0092 mg/l
Freshwater (intermittent releases)		0.092 mg/l
Marine water		0.00092 mg/l
Freshwater sediment		0.034 mg/kg
Marine sediment		0.00336 mg/kg
Micro-organisms in sewage treatment plants (STP)		18.1 mg/l
Soil		0.00132 mg/kg
104-15-4	p-toluenesulphonic acid (containing a maximum of 5 % H ₂ SO ₄)	
Freshwater		0.073 mg/l
Freshwater (intermittent releases)		0.73 mg/l
Marine water		0.007 mg/l
Freshwater sediment		0.35 mg/kg
Marine sediment		0.035 mg/kg
Micro-organisms in sewage treatment plants (STP)		65 mg/l
Soil		0.028 mg/kg
90640-67-8	Amines, polyethylenepoly-, triethylenetetramine fraction	
Freshwater		0.027 mg/l
Freshwater (intermittent releases)		0.2 mg/l
Marine water		0.003 mg/l
Freshwater sediment		8.572 mg/kg
Marine sediment		0.857 mg/kg
Micro-organisms in sewage treatment plants (STP)		0.13 mg/l
Soil		1.25 mg/kg

Additional advice on limit values

To date, no national critical limit values exist.

8.2. Exposure controls



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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

Tested protective gloves must be worn (EN ISO 374)
Breakthrough times and swelling properties of the material must be taken into consideration.
NBR (Nitrile rubber) 0,4 mm, Breakthrough time: 480 min

Skin protection

Avoid contact with skin, eyes and clothes.

Respiratory protection

In case of inadequate ventilation wear respiratory protection. Filter type: A/P2

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:	Paste, solid
Colour:	black
Odour:	characteristic
Odour threshold:	not determined
Melting point/freezing point:	not determined
Boiling point or initial boiling point and boiling range:	>200 °C
Flammability:	not applicable
Lower explosion limits:	not determined
Upper explosion limits:	not determined
Flash point:	85 °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:	not determined
Density (at 20 °C):	1.24 g/cm ³
Relative density:	not determined
Relative vapour density:	not determined
Particle characteristics:	Ethene, homopolymer: < 5mm

9.2. Other information

Information with regard to physical hazard classes

Explosive properties

The product is not: Explosive.

Oxidizing properties

not determined

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Other safety characteristics

Evaporation rate:	not determined
Solid content:	not determined
Viscosity / dynamic (at 25 °C):	30.000 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

Toxicocinetics, metabolism and distribution

No data available

Acute toxicity

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

ATEmix calculated

ATE (oral) > 5000 mg/kg; ATE (dermal) > 2000 mg/kg

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
107-41-5	2-methylpentane-2,4-diol				
	oral	LD50 3700 mg/kg	Rat		
	dermal	LD50 8000 mg/kg	Rabbit		
68082-29-1	Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine				
	oral	LD50 > 2000 mg/kg	Rat	Study report (2012)	OECD Guideline 423
	dermal	LD50 > 2000 mg/kg	Rat	Study report (2013)	OECD Guideline 402
25513-64-8	3,3,5-trimethylhexylenediamine				
	oral	LD50 910 mg/kg	Rat	Study report (1965)	other: comparable to guideline study wit
10563-29-8	N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine				
	oral	LD50 1669 mg/kg	Rat	Study report (1991)	OECD Guideline 401

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CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
104-15-4	p-toluenesulphonic acid (containing a maximum of 5 % H ₂ SO ₄)				
	oral	LD50 ca. 1410 mg/kg	Rat	Study report (1988)	OECD Guideline 401
	dermal	LD50 > 2000 mg/kg	Rabbit	Study report (1981)	OECD Guideline 402
90640-67-8	Amines, polyethylenepoly-, triethylenetetramine fraction				
	oral	LD50 1861.9 mg/kg	Rat	Study report (1992)	other: EPA FR Vol.50, No. 188, September
	dermal	LD50 1465.4 mg/kg	Rabbit	Study report (1993)	OECD Guideline 402

Irritation and corrosivity

Skin corrosion/irritation: Causes severe skin burns and eye damage.

Serious eye damage/eye irritation: Causes serious eye damage.

Sensitising effects

May cause an allergic skin reaction. (Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine; 3,3,5-trimethylhexylenediamine; N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine; Amines, polyethylenepoly-, triethylenetetramine fraction)

Carcinogenic/mutagenic/toxic effects for reproduction

Suspected of damaging the unborn child. (2-methylpentane-2,4-diol)

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

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

STOT-single exposure

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

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.

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h][d]	Species	Source	Method
107-41-5	2-methylpentane-2,4-diol					
	Acute fish toxicity	LC50 8510 mg/l	96 h	Gambusia affinis		
	Acute crustacea toxicity	EC50 3200 mg/l	48 h	Daphnia magna		
68082-29-1	Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine					
	Acute fish toxicity	LC50 7.07 mg/l	96 h	Danio rerio	Study report (2013)	OECD Guideline 203
	Acute algae toxicity	ErC50 4.34 mg/l	72 h	Raphidocelis subcapitata	Study report (2013)	OECD Guideline 201
	Acute crustacea toxicity	EC50 9.72 mg/l	48 h		Pre-supplier/manufacturer	
	Fish toxicity	NOEC 5 mg/l	4 d		Pre-supplier/manufacturer	
	Acute bacteria toxicity	EC50 384 mg/l ()	3 h	activated sludge of a predominantly domestic sewage	Study report (2012)	OECD Guideline 209
25513-64-8	3,3,5-trimethylhexylenediamine					
	Acute algae toxicity	ErC50 43.5 mg/l	72 h	Raphidocelis subcapitata	REACH Registration Dossier	OECD Guideline 201
	Fish toxicity	NOEC >= 10.9 mg/l	30 d	Danio rerio	REACH Registration Dossier	OECD Guideline 210
	Crustacea toxicity	NOEC 1.02 mg/l	21 d	Daphnia magna	REACH Registration Dossier	OECD Guideline 211
10563-29-8	N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine					
	Acute fish toxicity	LC50 > 100 mg/l	96 h	Danio rerio	Study report (2009)	OECD Guideline 203
	Acute algae toxicity	ErC50 21 mg/l	72 h	Raphidocelis subcapitata	Study report (2004)	OECD Guideline 201
	Acute crustacea toxicity	EC50 9.22 mg/l	48 h	Daphnia magna	Study report (1992)	ISO 6341
104-15-4	p-toluenesulphonic acid (containing a maximum of 5 % H2SO4)					
	Acute fish toxicity	LC50 > 500 mg/l	96 h	Leuciscus idus melanotus	REACH Registration Dossier	OECD Guideline 203
	Acute algae toxicity	ErC50 ca. 310 mg/l	72 h	Desmodesmus subspicatus	Study report (1995)	EU Method C.3
	Acute crustacea toxicity	EC50 > 100 mg/l	48 h	Daphnia magna	Study report (1995)	OECD Guideline 202
	Acute bacteria toxicity	EC50 > 1000 mg/l ()	3 h	activated sludge of a predominantly domestic sewage	Study report (1989)	OECD Guideline 209

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h][d]	Species	Source	Method
90640-67-8	Amines, polyethylenepoly-, triethylenetetramine fraction					
	Acute fish toxicity	LC50 330 mg/l	96 h	Pimephales promelas	REACH Registration Dossier	other: U.S EPA-TSCA, 40 CFR Part 797 14
	Acute algae toxicity	ErC50 20 mg/l	72 h	Raphidocelis subcapitata	REACH Registration Dossier	OECD Guideline 201
	Acute crustacea toxicity	EC50 31.1 mg/l	48 h	Daphnia magna	REACH Registration Dossier	EU Method C.2
	Acute bacteria toxicity	EC50 800 mg/l ()		activated sludge, domestic	REACH Registration Dossier	other: EEC L133 1988 p 118-122

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
107-41-5	2-methylpentane-2,4-diol	0,58
68082-29-1	Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	10.34
25513-64-8	3,3,5-trimethylhexylenediamine	-0.3
10563-29-8	N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine	-0.56
104-15-4	p-toluenesulphonic acid (containing a maximum of 5 % H2SO4)	-0.96
90640-67-8	Amines, polyethylenepoly-, triethylenetetramine fraction	-2.9

BCF

CAS No	Chemical name	BCF	Species	Source
68082-29-1	Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	77.4	no data	(2013)

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 contents/container to industrial incineration plant.
 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

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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

Contaminated packaging

Do not wash with:
Transfer wash-downs in sealed containers.
Dispose of waste according to applicable legislation.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number: UN 3259
14.2. UN proper shipping name: AMINES, SOLID, CORROSIVE, N.O.S.
(TRIMETHYLHEXAMETHYLENEDIAMINES)
14.3. Transport hazard class(es): 8
14.4. Packing group: II
Hazard label: 8



Classification code: C8
Special Provisions: 274
Limited quantity: 1 kg
Excepted quantity: E2
Transport category: 2
Hazard No: 80
Tunnel restriction code: E

Inland waterways transport (ADN)

14.1. UN number or ID number: UN 3259
14.2. UN proper shipping name: AMINES, SOLID, CORROSIVE, N.O.S.
(TRIMETHYLHEXAMETHYLENEDIAMINES)
14.3. Transport hazard class(es): 8
14.4. Packing group: II
Hazard label: 8



Classification code: C8
Special Provisions: 274
Limited quantity: 1 kg
Excepted quantity: E2

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Marine transport (IMDG)

14.1. UN number or ID number: UN 3259
14.2. UN proper shipping name: AMINES, SOLID, CORROSIVE, N.O.S.
(TRIMETHYLHEXAMETHYLENEDIAMINES)
14.3. Transport hazard class(es): 8
14.4. Packing group: II
Hazard label: 8



Special Provisions: 274
Limited quantity: 1 kg
Excepted quantity: E2
EmS: F-A, S-B
Segregation group: 18 - alkalis

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 3259
14.2. UN proper shipping name: AMINES, SOLID, CORROSIVE, N.O.S.
(TRIMETHYLHEXAMETHYLENEDIAMINES)
14.3. Transport hazard class(es): 8
14.4. Packing group: II
Hazard label: 8



Special Provisions: A3 A803
Limited quantity Passenger: 5 kg
Passenger LQ: Y844
Excepted quantity: E2
IATA-packing instructions - Passenger: 859
IATA-max. quantity - Passenger: 15 kg
IATA-packing instructions - Cargo: 863
IATA-max. quantity - Cargo: 50 kg

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

No information available.

Other applicable information

No information available.

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 75, Entry 78

Directive 2010/75/EU on industrial 1.918 % (23.78 g/l)

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emissions:

Information according to Directive 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

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

(EU) EINECS/ELINCS/NLP: yes

(RC) TCSI: no

(NZ) NZIoC: yes

(USA) TSCA: yes

(CDN) DSL: no

(ROK) KECI/ECL: unknown

(RP) PICCS: unknown

(JP) MITI: unknown

(CHN) IECSC: yes

(AUS) AIIC: unknown

(CDN) NDSL: unknown

15.2. Chemical safety assessment

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

SECTION 16: Other information**Changes**

This data sheet contains changes from the previous version in section(s): 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16.

Abbreviations and acronyms

Acute Tox. 4: Acute toxicity, hazard category 4

Skin Corr. 1A: Skin corrosion, sub-category 1A

Skin Corr. 1B: Skin corrosion, sub-category 1B

Skin Irrit. 2: Skin irritation, hazard category 2

Eye Dam. 1: Serious eye damage, hazard category 1

Eye Irrit. 2: Eye irritation, hazard category 2

Skin Sens. 1: Skin sensitisation, hazard category 1

Skin Sens. 1A: Skin sensitisation, hazard category 1A

Skin Sens. 1B: Skin sensitisation, hazard category 1B

Repr. 2: Reproductive toxicity, hazard category 2

STOT SE 3: Specific target organ toxicity - single exposure, hazard category 3

Aquatic Chronic 2: Hazardous to the aquatic environment, long-term hazard category: Chronic 2

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

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

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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

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

Classification	Classification procedure
Repr. 2; H361d	Calculation method
Skin Corr. 1A; H314	Calculation method
Eye Dam. 1; H318	Calculation method
Skin Sens. 1; H317	Calculation method

Relevant H and EUH statements (number and full text)

H302	Harmful if swallowed.
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.
H335	May cause respiratory irritation.
H361d	Suspected of damaging the unborn child.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

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.)