

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### 7440 Epoxy adhesive - 7439 hardener

Revision: 27.01.2026

Product code: 7439

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

### 1.1. Product identifier

7440 Epoxy adhesive - 7439 hardener

#### Further trade names

Product 7440: 7438 resin + 7439 Hardener

Product group:

UFI: UHJ0-K0GG-A00V-0X2T

### 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

Skin Corr. 1B; H314  
Eye Dam. 1; H318  
Skin Sens. 1; H317  
Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

### 2.2. Label elements

#### Regulation (EC) No 1272/2008

#### Hazard components for labelling

1,3-Cyclohexanedimethanamine  
2-Propenenitrile, polymer with 1,3-butadiene,  
1-cyano-1-methyl-4-oxo-4-[[2-(1-piperazinyl)ethyl]amino]butyl-terminated

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Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia  
 N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine  
 Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine

**Signal word:** Danger

**Pictograms:**



#### Hazard statements

- H314 Causes severe skin burns and eye damage.  
 H317 May cause an allergic skin reaction.  
 H412 Harmful to aquatic life with long lasting effects.

#### 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.

#### Special labelling

The synthetic polymer microparticles supplied are subject to conditions laid down by entry 78 of Annex XVII to Regulation (EC) No 1907/2006 of the European Parliament and of the Council (contains 10 - 20% Polyamide).

#### 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)			
2579-20-6	1,3-Cyclohexanedimethanamine	15 - < 30 %		
	219-941-5		01-2119543741-41	
	Acute Tox. 4, Acute Tox. 4, Skin Corr. 1A, Eye Dam. 1, Aquatic Chronic 3; H312 H302 H314 H318 H412			
68683-29-4	2-Propenenitrile, polymer with 1,3-butadiene, 1-cyano-1-methyl-4-oxo-4-[[2-(1-piperazinyl)ethyl]amino]butyl-terminated	15 - < 30 %		
	614-706-7			
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1; H315 H319 H317			
9046-10-0	Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia	5 - < 15 %		
	618-561-0		01-2119557899-12	
	Skin Corr. 1C, Eye Dam. 1, Aquatic Chronic 3; H314 H318 H412			
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			

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CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
68082-29-1	Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine			1 - < 5 %
	500-191-5		01-2119972320-44	
	Skin Irrit. 2, Eye Dam. 1, Skin Sens. 1, Aquatic Chronic 2; H315 H318 H317 H411			
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol			1 - < 5 %
	202-013-9	603-069-00-0	01-2119560597-27	
	Acute Tox. 4, Skin Corr. 1C, Eye Dam. 1; H302 H314 H318			

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		
2579-20-6	219-941-5	1,3-Cyclohexanedimethanamine	15 - < 30 %
	dermal: ATE = 1100 mg/kg; oral: LD50 = > 300 - ca. 2000 mg/kg		
68683-29-4	614-706-7	2-Propenenitrile, polymer with 1,3-butadiene, 1-cyano-1-methyl-4-oxo-4-[[2-(1-piperazinyl)ethyl]amino]butyl-terminated	15 - < 30 %
	dermal: LD50 = 3000 mg/kg; oral: LD50 = 15400 mg/kg		
9046-10-0	618-561-0	Reaction products of di-, tri- and tetra-propoxylyated propane-1,2-diol with ammonia	5 - < 15 %
	dermal: LD50 = 2979,7 mg/kg; oral: LD50 = 2885,3 mg/kg		
10563-29-8	234-148-4	N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine	1 - < 5 %
	oral: LD50 = 1669 mg/kg		
68082-29-1	500-191-5	Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	1 - < 5 %
	dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 2000 mg/kg		
90-72-2	202-013-9	2,4,6-tris(dimethylaminomethyl)phenol	1 - < 5 %
	oral: LD50 = 2169 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.

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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

##### **Suitable extinguishing media**

alcohol resistant foam, Carbon dioxide (CO<sub>2</sub>), 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.

#### 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**

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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
2579-20-6	1,3-Cyclohexanedimethanamine			
Worker DNEL, long-term		dermal	systemic	0.1 mg/kg bw/day
Worker DNEL, acute		dermal	systemic	25.2 mg/kg bw/day
9046-10-0	Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia			
Worker DNEL, long-term		dermal	systemic	2,5 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	5,29 mg/m <sup>3</sup>
10563-29-8	N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine			
Consumer DNEL, long-term		inhalation	local	0.65 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	0.67 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	0.65 mg/m <sup>3</sup>
Consumer DNEL, long-term		oral	systemic	0.2 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	3.7 mg/m <sup>3</sup>
Worker DNEL, acute		inhalation	systemic	7.5 mg/m <sup>3</sup>
Worker DNEL, long-term		inhalation	local	3.7 mg/m <sup>3</sup>
Worker DNEL, acute		inhalation	local	7.5 mg/m <sup>3</sup>
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 <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	0.272 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	0.169 mg/m <sup>3</sup>
Consumer DNEL, long-term		oral	systemic	0.0972 mg/kg bw/day
Consumer DNEL, long-term		dermal	systemic	0.0972 mg/kg bw/day
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol			
Worker DNEL, long-term		inhalation	systemic	0.53 mg/m <sup>3</sup>
Worker DNEL, acute		inhalation	systemic	2.1 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	0.15 mg/kg bw/day
Worker DNEL, acute		dermal	systemic	0.6 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	0.13 mg/m <sup>3</sup>
Consumer DNEL, acute		inhalation	systemic	0.13 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	systemic	0.075 mg/kg bw/day
Consumer DNEL, acute		dermal	systemic	0.075 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	0.075 mg/kg bw/day

##### PNEC values

CAS No	Name of agent	Value
2579-20-6	1,3-Cyclohexanedimethanamine	
Environmental compartment		
Freshwater		0.033 mg/l
Freshwater (intermittent releases)		0.331 mg/l
Marine water		0.003 mg/l

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#### PNEC values

CAS No	Name of agent	Value
	Environmental compartment	
	Freshwater sediment	0.218 mg/kg
	Marine sediment	0.022 mg/kg
	Micro-organisms in sewage treatment plants (STP)	10 mg/l
	Soil	0.024 mg/kg
9046-10-0	Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia	
	Freshwater	0,015 mg/l
	Freshwater (intermittent releases)	0,15 mg/l
	Marine water	0,014 mg/l
	Freshwater sediment	0,132 mg/kg
	Marine sediment	0,125 mg/kg
	Secondary poisoning	6,93 mg/kg
	Micro-organisms in sewage treatment plants (STP)	7,5 mg/l
	Soil	0,018 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
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
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	
	Freshwater	0.046 mg/l
	Freshwater (intermittent releases)	0.46 mg/l
	Marine water	0.005 mg/l
	Freshwater sediment	0.262 mg/kg
	Marine sediment	0.026 mg/kg
	Micro-organisms in sewage treatment plants (STP)	0.2 mg/l
	Soil	0.025 mg/kg

#### Additional advice on limit values

To date, no national critical limit values exist.

#### 8.2. Exposure controls



#### Appropriate engineering controls

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

#### Individual protection measures, such as personal protective equipment

##### Eye/face protection

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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:	not determined
Flammability:	not applicable
Lower explosion limits:	not determined
Upper explosion limits:	not determined
Flash point:	> 100 °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):	1,18 g/cm <sup>3</sup>
Relative density:	not determined
Relative vapour density:	not determined
Particle characteristics:	*)

### 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 (at 25 °C): not determined

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#### Further Information

\*)  
Polyamide: < 5mm

### 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.

##### ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 5000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
2579-20-6	1,3-Cyclohexanedimethanamine				
	oral	LD50 > 300 - ca. 2000 mg/kg	Rat	Study report (2007)	OECD Guideline 423
	dermal	ATE 1100 mg/kg			
68683-29-4	2-Propenenitrile, polymer with 1,3-butadiene, 1-cyano-1-methyl-4-oxo-4-[[2-(1-piperazinyl)ethyl]amino]butyl-terminated				
	oral	LD50 15400 mg/kg	Rat	Pre-supplier/manufacturer	
	dermal	LD50 3000 mg/kg	Rabbit	Pre-supplier/manufacturer	
9046-10-0	Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia				
	oral	LD50 2885,3 mg/kg	Rat	Study report (1993)	OECD Guideline 401
	dermal	LD50 2979,7 mg/kg	Rabbit	Study report (1993)	OECD Guideline 402
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
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
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol				
	oral	LD50 2169 mg/kg	Rat	Study report (1992)	OECD Guideline 401

#### Irritation and corrosivity

Skin corrosion/irritation: Causes severe skin burns and eye damage. (On basis of test data)

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

#### Sensitising effects

May cause an allergic skin reaction. (2-Propenenitrile, polymer with 1,3-butadiene, 1-cyano-1-methyl-4-oxo-4-[[2-(1-piperaziny)ethyl]amino]butyl-terminated; N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine; Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine)

#### 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

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

Harmful to aquatic life with long lasting effects.

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h][d]	Species	Source	Method
2579-20-6	1,3-Cyclohexanedimethanamine					
	Acute fish toxicity	LC50 130 mg/l	96 h	Leuciscus idus	REACH Registration Dossier	OECD Guideline 203
	Acute algae toxicity	ErC50 56.7 mg/l	72 h	Raphidocelis subcapitata	REACH Registration Dossier	OECD Guideline 201
	Acute crustacea toxicity	EC50 33.1 mg/l	48 h	Daphnia magna	REACH Registration Dossier	EU Method C.2
	Acute bacteria toxicity	EC50 > 1000 mg/l ( )	3 h	activated sludge, domestic	REACH Registration Dossier	OECD Guideline 209
9046-10-0	Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia					
	Acute fish toxicity	LC50 772,14 mg/l	96 h	Cyprinodon variegatus	REACH Registration Dossier	OECD Guideline 203
	Acute algae toxicity	ErC50 15 mg/l	72 h	Raphidocelis subcapitata	REACH Registration Dossier	EU Method C.3
	Acute crustacea toxicity	EC50 80 mg/l	48 h	Daphnia magna	REACH Registration Dossier	OECD Guideline 202
	Acute bacteria toxicity	EC50 750 mg/l ( )	3 h	activated sludge of a predominantly domestic sewage	REACH Registration Dossier	OECD Guideline 209
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
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
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol					
	Acute fish toxicity	LC50 > 100 mg/l	96 h	Cyprinus carpio	REACH Registration Dossier	OECD Guideline 203
	Acute crustacea toxicity	EC50 > 100 mg/l	48 h	Daphnia magna	REACH Registration Dossier	OECD Guideline 202

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#### **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
2579-20-6	1,3-Cyclohexanedimethanamine	0.69
9046-10-0	Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia	1,34
10563-29-8	N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine	-0.56
68082-29-1	Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	10.34
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	>= 0.219

#### **BCF**

CAS No	Chemical name	BCF	Species	Source
9046-10-0	Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia	3,16		REACH Registration D
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 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

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#### 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. (CYCLOHEXANEDIMETHANAMINE)  
**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. (CYCLOHEXANEDIMETHANAMINE)  
**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

#### Marine transport (IMDG)

**14.1. UN number or ID number:** UN 3259  
**14.2. UN proper shipping name:** AMINES, SOLID, CORROSIVE, N.O.S. (CYCLOHEXANEDIMETHANAMINE)  
**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

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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. (CYCLOHEXANEDIMETHANAMINE)  
**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 emissions: 26.907 % (317.503 g/l)

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).

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

(EU) EINECS/ELINCS/NLP: yes

(RC) TCSI: yes

(NZ) NZIoC: no

(USA) TSCA: yes

(CDN) DSL: yes

(ROK) KECI/ECL: yes

(RP) PICCS: no

(JP) MITI: yes

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(CHN) IECSC: yes  
 (AUS) AIIC: yes  
 (CDN) NDSL: no

#### 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 Corr. 1C: Skin corrosion, sub-category 1C  
 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. 1B: Skin sensitisation, hazard category 1B  
 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  
 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
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**Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]**

Classification	Classification procedure
Skin Corr. 1B; H314	On basis of test data
Eye Dam. 1; H318	Calculation method
Skin Sens. 1; H317	Calculation method
Aquatic Chronic 3; H412	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.
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.

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