

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

**7610, 7611 Epoxy adhesive - 7609 hardener**

Revision: 28.01.2026

Product code: 7609

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

#### 1.1. Product identifier

7610, 7611 Epoxy adhesive - 7609 hardener

##### Further trade names

Product 7610: 7608 resin + 7609 Hardener, Product 7611: 7607 resin + 7609 Hardener

Product group:

UFI: WAF2-909E-400V-4S80

#### 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

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

@000000000849  
@000000000850**Signal word:** Danger

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**Pictograms:**

**Hazard statements**

- H317 May cause an allergic skin reaction.  
 H318 Causes serious eye damage.  
 H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements**

- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
 P280 Wear protective gloves and eye protection/face protection.  
 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.  
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
 P362+P364 Take off contaminated clothing and wash it before reuse.

**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)			
52338-87-1	1,3-bis[3-(dimethylamino)propyl]urea			5 - < 15 %
	257-861-2		01-2120781639-37	
	Skin Irrit. 2, Eye Dam. 1, Skin Sens. 1, Aquatic Chronic 3; H315 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		
52338-87-1	257-861-2	1,3-bis[3-(dimethylamino)propyl]urea	5 - < 15 %
	dermal: LD50 = ca. 2050 mg/kg; oral: LD50 = ca. 5126 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.

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### **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 (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.

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

#### 7.2. Conditions for safe storage, including any incompatibilities

##### Requirements for storage rooms and vessels

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

##### Hints on joint storage

No special measures are necessary.

##### Further information on storage conditions

No special measures are necessary.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### DNEL/DMEL values

CAS No	Name of agent	Exposure route	Effect	Value
52338-87-1	1,3-bis[3-(dimethylamino)propyl]urea			
Worker DNEL, long-term		inhalation	systemic	5.8 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	2.33 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	0.833 mg/kg bw/day

##### PNEC values

CAS No	Name of agent	Value
52338-87-1	1,3-bis[3-(dimethylamino)propyl]urea	
Environmental compartment		
Freshwater		0.093 mg/l
Freshwater (intermittent releases)		0.93 mg/l
Marine water		0.0093 mg/l
Freshwater sediment		0.372 mg/kg
Marine sediment		0.0372 mg/kg
Micro-organisms in sewage treatment plants (STP)		1.8 mg/l
Soil		0.0198 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

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

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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:	Liquid
Colour:	colourless
Odour:	characteristic
Odour threshold:	not determined
Melting point/freezing point:	not determined
Boiling point or initial boiling point and boiling range:	not determined
Flammability:	No data available
Lower explosion limits:	not determined
Upper explosion limits:	not determined
Flash point:	>93.3 °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):	1.12 g/cm <sup>3</sup>
Relative density:	not determined
Relative vapour density:	not determined
Particle characteristics:	not determined

**9.2. Other information****Information with regard to physical hazard classes**

Explosive properties

No data available

Oxidizing properties

No data available

**Other safety characteristics**

Evaporation rate: not determined

Solid content: not determined

Viscosity / dynamic (at 25 °C): not determined

**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.

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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) > 2000 mg/kg; ATE (dermal) > 2000 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
52338-87-1	1,3-bis[3-(dimethylamino)propyl]urea				
	oral	LD50 ca. 5126 mg/kg	Rat	Study report (1986)	EU Method B.1
	dermal	LD50 ca. 2050 mg/kg	Rat	Study report (1986)	EU Method B.3

##### **Irritation and corrosivity**

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

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

##### **Sensitising effects**

May cause an allergic skin reaction. (1,3-bis[3-(dimethylamino)propyl]urea)

##### **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.

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#### 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.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h][d]	Species	Source	Method
52338-87-1	1,3-bis[3-(dimethylamino)propyl]urea					
	Acute fish toxicity	LC50 > 1000 mg/l	96 h	Oryzias latipes	REACH Registration Dossier	OECD Guideline 203
	Acute algae toxicity	ErC50 > 100 mg/l	72 h	Raphidocelis subcapitata	REACH Registration Dossier	OECD Guideline 201
	Acute crustacea toxicity	EC50 93 mg/l	48 h	Daphnia magna	REACH Registration Dossier	OECD Guideline 202
	Acute bacteria toxicity	EC50 > 1000 mg/l ( )	3 h	activated sludge of a predominantly domestic sewage	REACH Registration Dossier	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
52338-87-1	1,3-bis[3-(dimethylamino)propyl]urea	ca. 0.817

#### BCF

CAS No	Chemical name	BCF	Species	Source
52338-87-1	1,3-bis[3-(dimethylamino)propyl]urea	>= 0.029 - < 2.3	Cyprinus carpio	Study report (2003)

#### 12.4. Mobility in soil

No data available

#### 12.5. Results of PBT and vPvB assessment

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

#### 12.6. Endocrine disrupting properties

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

#### 12.7. Other adverse effects

No data available

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

##### Disposal recommendations

Dispose of waste according to applicable legislation.

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#### List of Wastes Code - residues/unused products

- 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

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

### SECTION 14: Transport information

#### Land transport (ADR/RID)

- 14.1. UN number or ID number:** No dangerous good in sense of this transport regulation.  
**14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.  
**14.3. Transport hazard class(es):** No dangerous good in sense of this transport regulation.  
**14.4. Packing group:** No dangerous good in sense of this transport regulation.

#### Inland waterways transport (ADN)

- 14.1. UN number or ID number:** No dangerous good in sense of this transport regulation.  
**14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.  
**14.3. Transport hazard class(es):** No dangerous good in sense of this transport regulation.  
**14.4. Packing group:** No dangerous good in sense of this transport regulation.

#### Marine transport (IMDG)

- 14.1. UN number or ID number:** No dangerous good in sense of this transport regulation.  
**14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.  
**14.3. Transport hazard class(es):** No dangerous good in sense of this transport regulation.  
**14.4. Packing group:** No dangerous good in sense of this transport regulation.

#### Air transport (ICAO-TI/IATA-DGR)

- 14.1. UN number or ID number:** No dangerous good in sense of this transport regulation.  
**14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.  
**14.3. Transport hazard class(es):** No dangerous good in sense of this transport regulation.  
**14.4. Packing group:** No dangerous good in sense of this transport regulation.

#### 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

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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 3

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: unknown

(USA) TSCA: yes

(CDN) DSL: yes

(ROK) KECI/ECL: yes

(RP) PICCS: yes

(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

Skin Irrit. 2: Skin irritation, hazard category 2

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

Skin Sens. 1: Skin sensitisation, hazard category 1

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

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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
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)**

H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
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.)*