

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

- Product identifier

- Trade name: EDILON Dex-L 2K tix Component 1

- Relevant identified uses of the substance or mixture and uses advised against

- Sector of Use SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

- Product category PC1 Adhesives, sealants

- Environmental release category

ERC6a Industrial use resulting in manufacture of another substance (use of intermediates)

- Article category AC13 Plastic articles

- Application of the substance / the preparation Epoxy resin adhesive

- Details of the supplier of the safety data sheet

- Manufacturer/Supplier:

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- Emergency telephone number: Manufacturer / Supplier

2 Hazards identification

- Classification of the substance or mixture

- Classification according to Directive 67/548/EEC or Directive 1999/45/EC



Xi; Irritant

R36/38: Irritating to eyes and skin.



Xi; Sensitising

R43: May cause sensitisation by skin contact.



N; Dangerous for the environment

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

- Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

- Label elements

- Labelling according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

- Code letter and hazard designation of product:



Xi Irritant

N Dangerous for the environment

- Hazard-determining components of labelling:

Reactionproduct of Bisphenol F and epichlorohydrine

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700)

- Risk phrases:

36/38 Irritating to eyes and skin.

43 May cause sensitisation by skin contact.

51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

- Safety phrases:

24/25 Avoid contact with skin and eyes.

29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

- Special labelling of certain preparations:

Contains reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700), Reactionproduct of Bisphenol F and epichlorohydrine. May produce an allergic reaction.

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- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture of substances listed below with nonhazardous additions.

- Dangerous components:

	Reactionproduct of Bisphenol F and epichlorohydrine ☒ Xi R36/38; ☒ Xi R43; ☒ N R51/53	50-100%
CAS: 25068-38-6 NLP: 500-033-5	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700) ☒ Xi R36/38; ☒ Xi R43; ☒ N R51/53	25-50%

- **Additional information:** For the wording of the listed risk phrases refer to section 16.

4 First aid measures

- **Description of first aid measures**
- **After inhalation:**
Supply fresh air.
Seek immediate medical advice.
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:**
Immediately wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.
- **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**
Rinse out mouth and then drink plenty of water.
Do not induce vomiting; call for medical help immediately.

5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
Foam
Fire-extinguishing powder
Carbon dioxide
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture**
In case of fire, the following can be released:
Hydrogen chloride (HCl)
Nitrogen oxides (NOx)
Carbon monoxide (CO)
- **Advice for firefighters**
- **Protective equipment:**
Wear self-contained respiratory protective device.
Wear fully protective suit.
- **Additional information**
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
Collect contaminated fire fighting water separately. It must not enter the sewage system.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Wear protective clothing.

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- **Environmental precautions:**
Do not allow to enter sewers/ surface or ground water.
Inform respective authorities in case of seepage into water course or sewage system.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
- **Reference to other sections** See Section 8 for information on personal protection equipment.

7 Handling and storage

- **Handling:**
- **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.
- **Information about fire - and explosion protection:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:**
Protect from heat and direct sunlight.
Store in a cool place.

8 Exposure controls/personal protection

- **Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Avoid contact with the eyes and skin.
- **Respiratory protection:** Not necessary if room is well-ventilated.
- **Protection of hands:** Synthetic rubber gloves
- **Material of gloves** Synthetic rubber gloves
- **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Not suitable are gloves made of the following materials:** Fabric Gloves
- **Eye protection:**



Tightly sealed goggles

- **Body protection:** Protective work clothing

9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

Form:	Pasty
Colour:	White
Odour:	Characteristic

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- | | |
|---|---|
| - Change in condition
Boiling point/Boiling range: | > 200°C |
| - Flash point: | > 250°C |
| - Ignition temperature: | 460°C |
| - Danger of explosion: | Product does not present an explosion hazard. |
| - Density: | Not determined. |
| - Solubility in / Miscibility with water: | Not miscible or difficult to mix. |

10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
To avoid thermal decomposition do not overheat.
- **Possibility of hazardous reactions**
May produce violent reactions with bases and numerous organic substances including alcohols and amines.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Information on toxicological effects**
 - **Acute toxicity:**
- | | | |
|---|------|-----------------------|
| - LD/LC50 values relevant for classification: | | |
| 9003-36-5 Bisphenol F polymer with epichlorohydrin, mw ≤ 700 | | |
| Oral | LD50 | 23800 mg/kg (Rat) |
| Dermal | LD50 | > 2000 mg/kg (Rabbit) |
| 25068-38-6 reaction product: bisphenol-A-(epichlorohydrin) epoxy resin (number average molecular weight = 700) | | |
| Oral | LD50 | 11400 mg/kg (Rat) |
| Dermal | LD50 | > 2000 mg/kg (Rabbit) |
- **Primary irritant effect:**
 - **on the skin:** Irritant to skin and mucous membranes.
 - **on the eye:** Irritating effect.
 - **Sensitization:** Sensitization possible through skin contact.
 - **Additional toxicological information:**
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
Irritant
 - **Sensitisation** May cause sensitisation by skin contact.

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
Also poisonous for fish and plankton in water bodies.
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.

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- vPvB: Not applicable.

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13 Disposal considerations

- Waste treatment methods

- European waste catalogue

Cured product	Non dangerous waste	Code:-
Packaging with cured product	Non dangerous waste	Code:-
Packaging with Component 1	Dangerous waste	Code: 15 01 10
Packaging with uncured product	Dangerous waste	Code: 15 01 10

- Uncleaned packaging:

- Recommendation:

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning. Disposal must be made according to official regulations.

14 Transport information

- Land transport ADR/RID (cross-border)



- **ADR/RID class:** 9 Miscellaneous dangerous substances and articles.
- **Danger code (Kemler):** 90
- **UN-Number:** 3082
- **Packaging group:** III
- **Hazard label:** 9
- **Special marking:** Symbol (fish and tree)
- **UN proper shipping name:** 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol F polymer with epichlorohydrin, mw ≤ 700, reaction product: bisphenol-A-(epichlorohydrin) epoxy resin (number average molecular weight = 700))
- **Remarks:** LQ7: 5L - 30 kg

- Maritime transport IMDG:



- **IMDG Class:** 9
- **UN Number:** 3082
- **Label:** 9
- **Packaging group:** III
- **EMS Number:** F-A,S-F
- **Marine pollutant:** Yes
- **Proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol F polymer with epichlorohydrin, mw ≤ 700, reaction product: bisphenol-A-(epichlorohydrin) epoxy resin (number average molecular weight = 700))

- Air transport ICAO-TI and IATA-DGR:



- **ICAO/IATA Class:** 9
- **UN/ID Number:** 3082
- **Label:** 9
- **Special marking:** Symbol (fish and tree)

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Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 17.02.2011

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Trade name: EDILON Dex-L 2K tix Component 1

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- **Packaging group:** III
 - **Proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol F polymer with epichlorohydrin, mw ≤ 700, reaction product: bisphenol-A-(epichlorohydrin) epoxy resin (number average molecular weight = 700))

- **Special precautions for user** Warning: Miscellaneous dangerous substances and articles.

* **15 Regulatory information**

- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

* **16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**

R36/38 Irritating to eyes and skin.

R43 May cause sensitisation by skin contact.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

The R-sentences listed above are related to the dangerous substances which are given in Chapter 3: composition / information on ingredients.

As a product is a mixture of several ingredients, the product has a different classification and causes less danger as might be concluded from the R-sentences above.

- **Document Reference** 020474/2005-1201REC4/55 rev 12

- * **Data compared to the previous version altered.**

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

- Product identifier

- Trade name: EDILON Dex-L 2K tix Component 2

- Relevant identified uses of the substance or mixture and uses advised against

- Sector of Use SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

- Product category PC1 Adhesives, sealants

- Environmental release category

ERC6a Industrial use resulting in manufacture of another substance (use of intermediates)

- Article category AC13 Plastic articles

- Application of the substance / the preparation Epoxy resin adhesive

- Details of the supplier of the safety data sheet

- Manufacturer/Supplier:

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- Emergency telephone number: Manufacturer / Supplier

2 Hazards identification

- Classification of the substance or mixture

- Classification according to Directive 67/548/EEC or Directive 1999/45/EC



Xn; Harmful

R21: Harmful in contact with skin.



Xn; Sensitising

R42/43: May cause sensitisation by inhalation and skin contact.

- Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

- Label elements

- Labelling according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

- Code letter and hazard designation of product:



Xn Harmful

- Hazard-determining components of labelling:

piperazine (liquid)

- Risk phrases:

21 Harmful in contact with skin.

42/43 May cause sensitisation by inhalation and skin contact.

- Safety phrases:

23 Do not breathe fumes.

24 Avoid contact with skin.

36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

63 In case of accident by inhalation: remove casualty to fresh air and keep at rest.

- Special labelling of certain preparations:

Contains piperazine (liquid), N-Aminoethylpiperazine. May produce an allergic reaction.

- Other hazards

- Results of PBT and vPvB assessment

- PBT: Not applicable.

Trade name: EDILON Dex-L 2K tix Component 2

- vPvB: Not applicable.

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3 Composition/information on ingredients

- **Chemical characterization: Mixtures**

- **Description:** Mixture of substances listed below with nonhazardous additions.

- **Dangerous components:**

CAS: 68512-30-1	Phenol,methylstyrenated ☒ Xn R22	10-25%
CAS: 13531-52-7 EINECS: 236-882-0	N-(2-aminoethyl)-1.3-propanediamine ☒ T R24; ☒ C R34; ☒ Xn R22	2.5-10%
CAS: 110-85-0 EINECS: 203-808-3	piperazine (liquid) ☒ C R34; ☒ Xn R62-63; ☒ Xn R42/43	≤ 2.5%

- **Additional information:** For the wording of the listed risk phrases refer to section 16.

4 First aid measures

- **Description of first aid measures**

- **General information:** Immediately remove any clothing soiled by the product.

- **After inhalation:**

Supply fresh air.

Seek immediate medical advice.

In case of unconsciousness place patient stably in side position for transportation.

- **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

Cover wound with a sterile dressing.

If skin irritation continues, consult a doctor.

- **After eye contact:**

Rinse opened eye for several minutes under running water.

Seek immediate medical advice.

- **After swallowing:**

Do not induce vomiting; call for medical help immediately.

Drink plenty of water and provide fresh air. Call for a doctor immediately.

- **Information for doctor:**

- **Most important symptoms and effects, both acute and delayed** Allergic reactions

5 Firefighting measures

- **Extinguishing media**

- **Suitable extinguishing agents:**

Fire-extinguishing powder

Foam

Carbon dioxide

Water spray

- **For safety reasons unsuitable extinguishing agents:** Water with full jet

- **Special hazards arising from the substance or mixture**

In case of fire, the following can be released:

Nitrogen oxides (NO_x)

Carbon monoxide (CO)

- **Advice for firefighters**

- **Protective equipment:**

Wear self-contained respiratory protective device.

Wear fully protective suit.

- **Additional information**

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

Trade name: EDILON Dex-L 2K tix Component 2

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6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
- **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

- **Handling:**
- **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.
- **Information about fire - and explosion protection:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:**
Protect from heat and direct sunlight.
Store receptacle in fume cupboard.
Store in a cool place.

8 Exposure controls/personal protection

- **Control parameters**

- **Ingredients with limit values that require monitoring at the workplace:**

110-85-0 Piperazine

MEL	Short-term value: 0.3 mg/m ³
	Long-term value: 2 ppm
	New IOELV, Sk

- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Do not inhale gases / fumes / aerosols.
Avoid contact with the eyes and skin.
- **Respiratory protection:** Not necessary if room is well-ventilated.
- **Protection of hands:** Synthetic rubber gloves
- **Material of gloves** Synthetic rubber gloves
- **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Not suitable are gloves made of the following materials:** Strong material gloves
- **Eye protection:**



Tightly sealed goggles

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Trade name: EDILON Dex-L 2K tix Component 2

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- Body protection: Protective work clothing

9 Physical and chemical properties

- Information on basic physical and chemical properties

- General Information

- Appearance:

Form: Pasty
Colour: Black
- Odour: Amine-like

- pH-value at 20°C: >10.0

- Change in condition

Boiling point/Boiling range: > 220°C

- Flash point: 90°C

- Ignition temperature: 324°C

- Danger of explosion: Product does not present an explosion hazard.

- Vapour pressure at 20°C: - hPa

- Density at 20°C: - g/cm³

- Solubility in / Miscibility with

water: Not miscible or difficult to mix.

10 Stability and reactivity

- Reactivity

- Chemical stability

- Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.
To avoid thermal decomposition do not overheat.

- Possibility of hazardous reactions Strong exothermic reaction with acids.

- Hazardous decomposition products: Corrosive gases/vapours

11 Toxicological information

- Information on toxicological effects

- Acute toxicity:

- LD/LC50 values relevant for classification:

13531-52-7 N-(2-aminoethyl)-1.3-propanediamine

Oral	LD50	650 mg/kg (Rat)
Dermal	LD50	190 mg/kg (Rabbit)

- Primary irritant effect:

- on the skin: Caustic effect on skin and mucous membranes.

- on the eye: Strong caustic effect.

- Sensitization: Sensitization possible through skin contact.

- Additional toxicological information:

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

- Sensitisation May cause sensitisation by inhalation and skin contact.

12 Ecological information

- Toxicity

- Aquatic toxicity: No further relevant information available.

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Trade name: EDILON Dex-L 2K tix Component 2

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- **Additional ecological information:**
- **General notes:**
Do not allow product to reach ground water, water course or sewage system, even in small quantities.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

13 Disposal considerations

- **Waste treatment methods**
- **European waste catalogue**

Cured product	Non dangerous waste	Code:-
Packaging with cured product	Non dangerous waste	Code:-
Packaging with Component 2	Dangerous waste	Code: 15 01 10
Packaging with uncured product	Dangerous waste	Code: 15 01 10
- **Uncleaned packaging:**
- **Recommendation:**
Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning. Disposal must be made according to official regulations.

14 Transport information

- **Land transport ADR/RID (cross-border)**
- **ADR/RID class:** -
- **Maritime transport IMDG:**
- **IMDG Class:** -
- **Marine pollutant:** -
- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** -
- **Special precautions for user** Not applicable.

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **National regulations:**
- **Technical instructions (air):**

Class	Share in %
I	2,5-10
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**
 - R22 Harmful if swallowed.
 - R24 Toxic in contact with skin.
 - R34 Causes burns.
 - R42/43 May cause sensitisation by inhalation and skin contact.
 - R62 Possible risk of impaired fertility.
 - R63 Possible risk of harm to the unborn child.
- The R-sentences listed above are related to the dangerous substances which are given in Chapter 3: composition / information on ingredients.
As a product is a mixture of several ingredients, the product has a different classification and causes less danger as might be concluded from the R-sentences above.

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Safety data sheet
according to 1907/2006/EC, Article 31

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Trade name: EDILON Dex-L 2K tix Component 2

- **Document Reference** 020474/2005-1201REC4/56 rev 12
- * **Data compared to the previous version altered.**

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