

**Safety Data Sheet**  
according to Regulation (EG) No. 1907/2006 (REACH)  
according to Regulation (EU) No 453/2010

Article No.: F45.0003B Flexonal EP LR24H  
Print date: 25.02.2020 Revision date: 25.02.2020  
Version: 1-1 Issue date: 25.02.2020

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**SECTION 1: Identification of the substance/mixture and of the Company undertaking**

**1.1 Product identifiers**

Article No. (manufacturer/supplier): F45.0003B  
Identification of the substance or mixture: Flexonal EP LR24H

**1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.

**Application of the substance / the mixture:**

Epoxy resin hardening agent

**1.3 Details of the supplier of the safety data sheet**

**Manufacturer/Supplier:**

Bachmann Kunststoff Technologien GmbH

Rudolf-Diesel-Str. 2

D-63322 Rödermark

**Telefon: +49 6074 94394**

**Telefax: +49 6074 98544**

**Informing Department:**

Information Contact:

Mr. Julien

E-mail (competent person):

[service@bktgermany.com](mailto:service@bktgermany.com)

**1.4 Emergency Telephone Number:**

Telephone: +49 6074 94394  
Only available during office hours.

Poison Control Center Mainz - 24 h –  
Emergency Call: +49 6131 19240

**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

**Classification according to Regulation (EC) No.1272/2008 [CLP]**

Acute Tox. 4

H302 Harmful if swallowed.

Skin Corr. 1B

H314 Causes severe skin burns and eye damage.

Eye Dam. 1

H318 Causes serious eye damage.

Skin Sens. 1

H317 May cause an allergic skin reaction

Repr. 2

H361d Suspected of damaging the unborn child.

Aquatic Chronic 3

H412 Harmful to aquatic life with long lasting effects.

**2.2 Label Elements**

**Labelling according to Regulation (EG) No. 1272/2008 [CLP]**

The product is classified and labelled according to the CLP regulation.

**Hazard pictograms**



GHS05



GHS07



GHS08

**Signal word**

Danger

**Hazard statements**

H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.  
H361d Suspected of damaging the unborn child.  
H412 Harmful to aquatic life with long lasting effects.

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**Precautionary statements**

P260 Do not breathe dusts or mists.  
P303+P361+P353 IF ON SKY (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.  
P321 Specific treatment (see on this label).  
P362+P364 Take off contaminated clothing and wash it before reuse.  
P405 Store locked up.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**Contains:** 3-aminomethyl-3,5,5-trimethylcyclohexylamine  
salicylic acid  
1,3-Benzoldimethanamine  
trimethylhexane-1,6-diamine  
Phenol, styrenated

**2.3 Other hazards**

This substance/mixture does not contain components classified as either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**SECTION 3: Composition/information on ingredients**

**3.1 Chemical characterisation:**

Mixtures  
Epoxy resin hardening agent, formulation on aliphatic polyamine basis

**Description**

**Dangerous components:**

Chemical Description	CAS-No. EG-No./List Registration-no. Indexno.	Classification (Regulation (EG) No. 1272/2008)	Concentration (%)
3-aminomethyl-3,5,5-trimethylcyclohexylamine	2855-13-2 220-666-8 01-2119514687-32-xxxx 612-067-00-9	Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1A, H317; Aquatic Chronic 3, H412	25-50%
1,3-Benzoldimethanamine	1477-55-0 216-032-5 01-2119480150-50-xxxx	Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Sens. 1, H317; Aquatic Chronic 3, H412	10-25%
Phenol, styrenated	61788-44-1 262-975-0 01-2119980970-27-xxxx	Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Skin Sens. 1, H317	10-25%
trimethylhexane-1,6-diamine	25513-64-8 247-063-2 01-2119560598-25-xxxx	Skin Corr. 1A, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Sens. 1A, H317	2.5-10%
salicylic acid	69-72-7 200-712-3 01-2119486984-17-xxxx 01-2119486984-17-0018 607-4732-00-5	Repr. 2, H361d; Eye Dam. 1, H318; Acute Tox. 4, H302	2.5-10%
Polyoxypropylenediamine	9046-10-0 01-2119557899-12-xxxx	Skin Corr. 1C, H314; Eye Dam. 1, H318; Aquatic Chronic 3, H412	2.5-10%

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

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#### SECTION 4: First aid measures

##### 4.1 Description of first aid measures General information

Instantly remove any clothing soiled by the product.

##### After inhalation

Take affected persons into the open air and position comfortably  
Seek medical treatment in case of complaints.

##### After skin contact

Instantly 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.  
Then consult doctor.

##### After swallowing

Drink copious amounts of water and provide fresh air. Instantly call for doctor.

##### 4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

##### Information for doctor

No particular measures are known - treat according to symptoms.

##### 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

#### SECTION 5: Firefighting measures

##### 5.1 Extinguishing media

Suitable extinguishing agents:

Carbon dioxide (CO<sub>2</sub>)  
extinguishing powder or  
water jet.  
Fight larger fires with water  
jet or alcohol-resistant  
foam.

For safety reasons unsuitable extinguishing agents:

Water with a full water jet

##### 5.2 Special hazards arising from the substance or mixture

Special hazards arising from the substance or mixture:

Formation of toxic gases is possible during heating or in case of fire.

##### 5.3 Advice for firefighters

Protective equipment:

Put on breathing apparatus.

Additional information:

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

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## SECTION 6: Accidental release measures

- 6.1 **Personal precautions, protective equipment and emergency procedures**  
Personal precautions: See protective measures under points 7 and 8.  
Wear protective clothing.
- 6.2 **Environmental precautions**  
Environmental precautions: Do not allow product to reach sewage system or water bodies.  
Do not allow to enter the ground/soil
- 6.3 **Methods and material for containment and cleaning up**  
Cleaning procedure: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose of contaminated materials as waste according to item 13.  
Ensure adequate ventilation.
- 6.4 **Reference to other sections**  
Clean the accident area carefully.

## SECTION 7: Handling and storage

- 7.1 **Precautions for safety handling**  
Notes on safe handling: The usual precautionary measures for handling chemicals must be observed..  
Ensure good ventilation/exhaustion at the workplace
- Notes on fire and explosion protection: No special measures required.
- 7.2 **Conditions for safety storage, including any incompatibilities Storage**  
Requirements to be met by storerooms and containers: Store only in the original container.  
Keep containers securely closed and dry, store frost-free.  
Provide floor trough without outlet.
- Information on storage in one common storage facility: Store away from foodstuffs.
- Further information about storage conditions: Keep container tightly sealed..
- 7.3 **Specific end use(s)**  
Specific end use(s): No further relevant information available.

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Ingredients	CAS-No.	Value type (type of exposure)	Parameters to be monitored	Basis
3-aminomethyl-3,5,5-trimethylcyclohexylamine	2855-13-2	Inhalative	0.073 mg/m <sup>3</sup>	DNEL
1,3-Benzoldimethanamine	1477-55-01	Dermal Inhalative	0.33 mg/kg / bw/d 1.2 mg/m <sup>3</sup>	DNEL
Phenol, styrenated	61788-44-1	Dermal Inhalative	2.1 mg/kg / bw/d 7.4 mg/m <sup>3</sup>	DNEL
salicylic acid	69-72-7	Dermal	2 mg/kg / bw/d	DNEL
Polyoxypropylenediamine	9046-10-0	Dermal Inhalative	2.5 mg/kg / bw/d 1.36 mg/m <sup>3</sup>	DNEL
3-aminomethyl-3,5,5-trimethylcyclohexylamine	2855-13-2		0.06 mg/l (freshwater) 0.006 mg/l (seawater)	PNEC
1,3-Benzoldimethanamine PNEC (predicted no effect concentration)	1477-55-0		0.094 mg/l (freshwater) 0.0094 mg/l (seawater)	PNEC
Phenol, styrenated	61788-44-1		0.03 mg/l (freshwater) 0.003 mg/l (seawater)	PNEC
trimethylhexane-1,6-diamine	25513-64-8		0.102 mg/l (freshwater) 0.01 mg/l (seawater)	PNEC
salicylic acid	69-72-7		0.2 mg/l (freshwater) 0.02 mg/l (seawater)	PNEC
Polyoxypropylenediamine	9046-10-0		0.015 mg/l (freshwater) 0.0142 mg/l (seawater)	PNEC

#### Additional information:

The lists that were valid during the compilation were used as basis.

### 8.2 Exposure controls

#### Technical protective measures

Effective suction  
 Efficient ventilation in all process areas.

#### Personel protective equipment

General protective and hygienic measures:

Keep away from foodstuffs, beverages and food.  
 Take off immediately all contaminated clothing.  
 Wash hands during breaks and at the end of the work.  
 Avoid contact with the eyes and skin.

Breathing equipment:  
 Recommended filter device for short term use:



Use breathing protection in case of insufficient ventilation.  
 Combination filter A-P2

Protection of hands:



Plastic gloves  
 Only use chemical-protective gloves with CE-labelling of category III.  
 To minimize the wetness in the glove due to perspiration changing of gloves during a shift is required.  
 Check the permeability prior to each a new use of the glove.  
 Preventive skin protection by use of skin-protecting agents is recommended.

#### Material of gloves

Nitrile rubber, NBR  
 Fluorocarbon rubber (Viton)  
 Recommended thickness of the material: ≥ 0.5 mm

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The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

**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 gloves  
Leather gloves

Eye protection:



Tightly sealed safety glasses

Body protection:

Protective work clothing.

**SECTION 9: Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

Appearance:	Fluid
Colour:	Yellowish
Odour:	Amine-like
Melting point / freezing point:	Not determined
Initial boiling point and boiling range:	>200 °C
Flash point:	>100 °C
Ignition temperature	365 °C
Self-inflammability:	Product is not selfigniting
Explosive properties:	Product is not explosive
Critical values for explosion	
Lower:	1.2 Vol %
Vapour pressure:	Not determined
Density:	1 g/cm <sup>3</sup> (23 °C) (ISO 2811-2)
Solubility in / Miscibility with Water:	Not miscible or difficult to mix
Viscosity dynamic::	100 mPa.s (25 °C) (ISO 3219)

**9.2 Other information**

No further relevant information available.

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**SECTION 10: Stability and reactivity**

- 10.1 **Reactivity**  
No further relevant information available.
- 10.2 **Chemical stability**  
No decomposition if used according to specifications.
- 10.3 **Possibility of hazardous reactions**  
No dangerous reactions known..
- 10.4 **Conditions of avoid**  
No further relevant information available.
- 10.5 **Incompatible materials**  
Substances to avoid: Strong oxidizing agents
- 10.6 **Hazardous decomposition products**  
In the event of fire: Poisonous gases/vapours  
Corrosive gases/vapours

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Acute oral toxicity Harmful if swallowed

LD/LC50 values that are relevant for classification:	
2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine	
Oral	1,030 mg/kg (rat)
Dermal	1,840 mg/kg (rab) >2,000 mg/kg (rat)
1477-55-0 1,3-Benzoldimethanamine	
Oral	1,180 mg/kg (mou)
Dermal	3,100 mg/kg (rab)
61788-44-1 Phenol, styrenated	
Oral	>2,000 mg/kg (rat)
Dermal	>2,000 mg/kg (rat)
25513-64-8 trimethylhexane-1,6-diamine	
Oral	910 mg/kg (rat)
69-72-7 salicylic acid	
Oral	891 mg/kg (rat)
Dermal	>2,000 mg/kg (rat)
9046-10-0 Polyoxypropylenediamine	
Oral	2,885 mg/kg (rat)
Dermal	2,980 mg/kg (rab)

#### Primary irritant effect

##### Skin corrosion/irritation:

In vitro membrane barrier test for skin corrosion leads the classification to subcategory 1B (dangerous goods packing group II) Causes severe skin burns and eye damage.

##### Serious eye damage/irritation:

Causes serious eye damage.

##### Respiratory or skin sensitisation:

May cause an allergic skin reaction.

##### CMR effects (carcinogeny, mutagenicity and toxic 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.

##### Reproduction toxicity:

Suspected of damaging the unborn child.

##### 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.



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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Aquatic Toxicity:

2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine	
Bakterien-Toxizität (Bacteria toxicity) Daphnientoxizität (Daphnia toxicity) Algentoxizität (Algae toxicity) Fischtoxizität (Fish toxicity)	1,120 mg/l (Pseudomonas putida) (EC10(18h)) 23 mg/l (Daphnia magna (Wasserfloh)) (EC50(48h)) >50 mg/l (Scenedesmus subspicatus) (ErC50(72h)) 110 mg/l (Leuciscus idus) (LC50(96h))
1477-55-0 1,3-Benzoldimethanamine	
Daphnientoxizität (Daphnia toxicity) Algentoxizität (Algae toxicity) Fischtoxizität (Fish toxicity)	15.2 mg/l (Daphnia magna (Wasserfloh)) (EC50(48h)) 33.3 mg/l (Pseudokirchnerilla subcapitata) (EC50(72h)) > 100 mg/l (Oncorhynchus mykiss (Regenbogenforelle)) (LC50(96h)) 87.6 mg/l (Orycias Latipes) (LC50(96h))
61788-44-1 Phenol, styrenated	
Daphnientoxizität (Daphnia toxicity) Algentoxizität (Algae toxicity) Fischtoxizität (Fish toxicity)	4.6 mg/l (Daphnia magna (Wasserfloh)) (EC50(48h)) 3.14 mg/l (Alge Scenedesmus sp.) (EL50(72h)) 14.8 mg/l (Fisch (fish)) (LL50(96h))
25513-64-8 trimethylhexane-1,6-diamine	
Bakterientoxizität (Bacteria toxicity) (static) Daphnientoxizität (Daphnia toxicity) Algentoxizität (Algae toxicity) Fischtoxizität (Fish toxicity)	89 mg/l (Pseudomonas putida) (EC50(17h)) 31.5 mg/l (Daphnia magna (Wasserfloh)) (EC50(24h)) 43.5 mg/l (Scenedesmus subspicatus) (ErC50(72h)) 174 mg/l (Leuciscus idus) (LC50(48h))
69-72-7 salicylic acid	
Daphnientoxizität (Daphnia toxicity) Algentoxizität (Algae toxicity) Fischtoxizität (Fish toxicity)	870 mg/l (Daphnia magna (Wasserfloh)) (EC50 (48h)) >100 mg/l (Desmodesmus subspicatus) (EC50 (72h)) 1,380 mg/l (Pimephales promelas) (LC50 (96h))
9046-10-0 Polyoxypropylenediamine	
Bakterientoxizität (Bacteria toxicity) (static) Daphnientoxizität (Daphnia toxicity) Algentoxizität (Algae toxicity) Fischtoxizität (Fish toxicity)	380 mg/l (Belebtschlamm (activated sludge)) (EC20(3h)) 80 mg/l (Daphnia magna (Wasserfloh)) (EC50(48h)) 15 mg/l (Pseudokirchnerilla subcapitata) (EC50(72h)) >15 mg/l (Oncorhynchus mykiss (Regenbogenforelle)) (LC50(96h))

### 12.2 Persistence and degradability

Biodegradability: No further relevant information available.

### 12.3 Bioaccumulative potential

Bioaccumulation: No further relevant information available.

### 12.4 Mobility in soil

Mobility in soil: No further relevant information available.

Ecotoxicological effects: Not determined

Remark: Harmful to fish.

Additional ecological information:

General notes: Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water.  
Do not allow product to reach ground water, water bodies or sewage system.  
Must not reach sewage water or drainage ditch undiluted or unneutralised.  
Danger to drinking water if even small quantities leak into soil.  
Harmful to aquatic organisms.

### 12.5 Results of PBT and vPvB assessment

PBT: Not applicable

vPvB: Not applicable

### 12.6 Other adverse effects

No further relevant information available.

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**SECTION 13: Disposal considerations**

13.1 **Waste treatment methods**

Recommendation:

For disposal, Local regulations issued by the authorities must be observed. Dispose of liquid components at a suitable incineration plant. After curing, the product can be disposed of with household waste.

European waste catalogue	
08 00 00	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
08 02 00	wastes from MFSU of other coatings (including ceramic materials)
08 02 99	wastes not otherwise specified

Uncleaned packagings:



Disposal must be made according to official regulations.

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**SECTION 14 Transport information**

14.1	<b>UN-Number</b> ADR/RID/ADN, IMG, IATA	UN2735
14.2	<b>UN proper shipping name</b> ADR/RID/ADN IMDG, IATA	2735 AMINES, LIQUID, CORROSIVE, N.O.S. (1,3- Benzoldimethanamine) AMINES, LIQUID, CORROSIVE, N.O.S. (1,3- Benzoldimethanamine)
14.3	<b>Transport hazard class(es)</b> ADR/RID/ADN	
		
	Class Label	8 (C7) Corrosive substances. 8
	IMDG, IATA	
		
	Class Label	8 (C7) Corrosive substances. 8
14.4	<b>Packing group</b> ADR/RID/ADN, IMDG, IATA	II
14.5	<b>Environmental hazards:</b> <b>Marine pollutant</b>	No
14.6	<b>Special precautions for user</b>	Warning: Corrosive substances.
	(Kemler Number): EMS-Number: Segregation group Stowage Category: Segregation Code:	80 F-A, S-B Alkalis A SG35 Stow "separated from" SGG1-acids
14.7	<b>Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable
	<b>Transport/ Additional information:</b>	
	ADR/RID/ADN Excepted quantities (EQ): Limited quantities Excepted quantities	E2 1L Code: E2 Maximum net quantity per inner packaging : 30 ml Maximum net quantity per outer packaging : 500 ml
	Transport category Tunnel restriction Code:	3 E
	IMDG Limited quantities (LQ) Excepted quantities (EQ)	1L Code : E2 Maximum net quantity per inner packaging : 30 ml Maximum net quantity per outer packaging : 500ml
	UN « Model Regulation » :	UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S. (1,3- Benzoldimethanamine), 8, II

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## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/ legislation specific for the substance or mixture

Directive 21012/18/EU

Named dangerous substances – ANNEX I

REGULATION (EC) No 1907/2006 ANNEX XVI

None of the ingredients is listed.

Conditions of restriction: 3

National regulations:

VOC -EU (Decopaint-Directive 2004/42/EG)
0.0 g/l

Water hazard class:

Water hazard class 2 (Self-assessment): hazardous for water.

### 15.2 Chemical safety assessment:

A Chemical Safety Assessment has not been carried out..

## SECTION 16: Other information

### Relevant Phrases

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.

H332

Harmful if inhaled.

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.

### Other information

Training information:

Ensure adequate information, instruction and training for users.

To the best of our knowledge, the information in this safety data sheet corresponds to our knowledge at the time of revision. The information is intended to provide guidance on the safe handling of the product specified in this safety data sheet during storage, processing, transport and disposal. The information is not transferable to other products. Insofar as the product mentioned in this safety data sheet is mixed, blended or processed with other materials or undergoes treatment, the information in this safety data sheet cannot be transferred to the new material thus produced, unless expressly stated otherwise.