

Safety Data Sheet has been compiled according to Regulation (EC) No 1907/2006 (REACH), Annex II

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## MATERIAL SAFETY DATA SHEET "EPOKATE LAKK-3" (A)

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

#### 1.1 Product identifier

EPOKATE LAKK-3 (A), molecular weight <700

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

Epokate LAKK-3 (A) is used in two-component epoxy-resin flooring systems. It is intended for professional use at construction sites and for conditions which need to endure heavy load of wearing or friction (e.g. production halls, warehouses, airplane hangars, garages, laboratories, farms).

Identified uses:

#### 1.3 Details of the supplier of the safety data sheet:

Manufacturer/Distributor: Epokate OÜ  
Address: Savimäe 5, Vahi küla, Tartu vald, 60534, Tartumaa, Estonia  
Telefoninumber: + 372 50 83 751  
E-posti aadress: info@epokate.ee

#### 1.4 Emergency telephone number:

Poisoning information centre: 16662 (24-hour emergency response hotline)  
Rescue: 112 (24-hour emergency response hotline)

### SECTION 2: Hazards identification

*Classification & labelling according to REGULATION (EC) No 1272/2008*

#### 2.1 Classification of the substance or mixture:

Skin Irrit. 2 ; H315  
Skin Sens. 1; H317  
Eye Irrit. 2 ; H319  
Aquatic Chronic 2; H411  
Acute Tox. 4; H312+H332

#### 2.2 Label elements:

Hazard pictograms:



Signal word:

**WARNING**

Hazard statements:

H315 - Causes skin irritation.  
H317 - May cause an allergic skin reaction.  
H319 - Causes serious eye irritation.  
H411 - Toxic to aquatic life with long lasting effects.  
H312 - Harmful in contact with skin.  
H332 - Harmful if inhaled.

**EUH210 - Safety data sheet available on request.**

Precautionary statements:

P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P302+P352 - IF ON SKIN: Wash with plenty of soap and water.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+P313 - If eye irritation persists: Get medical advice/attention.  
P273 - Avoid release to the environment.

P391 - Collect spillage.

P501 - Dispose of contents/container in accordance with local/regional/national/international regulations

*Full text of H-, P- and EUH phrases: see SECTION 16*

### 2.3 Other hazards:

The mixture does not contain PBT or vPvB substances according to REGULATION (EC) No 1907/2006 Annex XIII criteria

## SECTION 3: Composition/information on ingredients

**3.1 Substances:** not applicable, see point 3.2

### 3.2 Mixtures:

Description of the mixture: Mixture is used as component A for two-component epoxy flooring systems. Prior to use mix together with epoxy hardener (component B)

Hazardous ingredients:

Substance name	CAS no.	REACH registration number	Concentration %	Classification according to REGULATION (EC) No. 1272/2008	
Reaction product. bisphenol-A- (epichlorhydrin) and epoxy resin (number average molecular weight <= 700)	25068-38-6	01-2119456619-26	50-70	Skin Irrit. 2 Skin Sens. 1 Eye Irrit. 2 Aquatic Chronic 2	H315 H317 H319 H411
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	9003-36-5	01-2119454392-40	5-15	Skin Irrit. 2 Skin Sens. 1 Aquatic Chronic 2	H315 H317 H411
oxirane, mono [(C12-14-alkyloxy) methyl]derivs.	68609-97-2	01-2119485289-22	5-15	Skin Irrit. 2 Skin Sens. 1	H315 H317
1,4-bis(2,3 epoxypropoxy)butane butanedioldiglycidyl ether	2425-79-8	01-2119494060-45	5-15	Acute Tox. 4 Acute Tox. 4 Skin Irrit. 2 Skin Sens. 1 Eye Irrit. 2	H312 H332 H315 H317 H319
Benzyl alcohol	100-51-6	01-2119492630-38	<5	Acute Tox. 4 Acute Tox. 4	H302 H332

*Full text of H- and EUH-phrases: see SECTION 16*

*There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section. Occupational exposure limits, if available, are listed in SECTION 8.*

## SECTION 4: First aid measures

### 4.1 Description of first aid measures:

Inhalation:

Get medical attention if adverse health effects persist or are severe. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention if symptoms occur

Skin contact:

<u>Eye contact:</u>	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
<u>Ingestion:</u>	Do not induce vomiting unless directed to do so by medical personnel. Maintain an open airway. Seek immediate medical attention.
<u>Self-protection of the first aider:</u>	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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

<u>Eye contact:</u>	Irritating to eyes. Adverse symptoms may include irritation, watering, redness.
<u>Inhalation:</u>	No known significant effects or critical hazards. No specific data on symptoms.
<u>Skin contact:</u>	Irritating to skin. May cause sensitisation by skin contact. Adverse effects may include irritation, redness.
<u>Ingestion:</u>	Irritating to mouth, throat and stomach. No specific data on symptoms.

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

<u>Notes for the doctor:</u>	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
<u>Special treatment:</u>	No specific treatment.

### SECTION 5: Fire fighting measures

#### 5.1 Extinguishing media:

<u>Suitable extinguishing media:</u>	CO <sub>2</sub> , extinguishing powder or water spray (fog).
<u>Unsuitable extinguishing media:</u>	Water with a full water jet.

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

In a fire or if heated, the pressure increase may cause the container to burst. Decomposition product may include carbon dioxide, carbon monoxide, halogenated compounds.

#### 5.3 Advice for firefighters:

<u>Special protective actions for fire-fighter:</u>	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. This material is toxic to aquatic organisms. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
<u>Special protective equipment for fire-fighters:</u>	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

Additional information: In case of fire cool endangered containers with water.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures:**For non-emergency personnel:

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also Section 8 for additional information on hygiene measures.

**6.2 Environmental precautions:**

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

**6.3 Methods and materials for containment and cleaning up:**Small spill:

Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container.

Large spill:

Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with noncombustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13).

**6.4 References to other sections:**

See **Section 1** for emergency contact information. See **Section 8** for information on appropriate personal protective equipment. See **Section 13** for additional waste treatment information.

**SECTION 7: Handling and storage****7.1 Conditions for safe storage, including any incompatibilities**Protective measures:

Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Avoid release to the environment. Refer to special instructions/safety data sheet. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous.

Advice on general occupational hygiene:

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

## 7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

## 7.3 Special end use(s)

<u>Recommendations:</u>	Not available
<u>Industrial sector specific solutions:</u>	Not available

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

<u>Occupational exposure limits:</u>	No exposure limit value known. <b>Recommended monitoring procedures:</b> If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.
<u>Derived effect levels:</u>	No DELs available
<u>Predicted effect concentrations:</u>	No PECs available

### 8.2 Exposure controls

<u>Appropriate engineering controls:</u>	Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.
<u>Individual protection measures:</u>	
<u>Eye/face protection:</u>	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.
<u>Hygiene measures:</u>	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.
<u>Hand protection:</u>	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Reference number EN 374. Suitable for short time use or protection against splashes: Butyl rubber/nitrile rubber gloves. (0,4 mm), breakthrough time 30 min.

Body protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: Use barrier skin cream.

Other skin protection: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection: No special measures required

Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state	Liquid
Colour	Yellowish
Odour	Faint odour
Odour threshold	Not available
pH	Not available
Melting point/freezing point	Not available
Initial boiling point and boiling range	Not available
Flash point	>200°C
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Burning time	Not available
Burning rate	Not available
Upper/lower flammability or explosive limits	Not available
Vapour pressure	Not available
Vapour density	Not available
Density	1000 - 1200 kg/m <sup>3</sup> (25°C)
Relative density	Not available
Solubility(ies)	Not available
Partition coefficient: noctanol/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	0.4 - 1.0 Pa.s (+25°C)
Explosive properties	Not available
Oxidising properties	Not available

**9.2 Other information:**

No additional information

**SECTION 10: Stability and reactivity****10.1 Reactivity:**

No specific test data related to reactivity available for this product or its ingredients.

**10.2 Chemical stability:**

Product is stable at normal conditions.

**10.3 Possibility of hazardous reactions:**

Under normal conditions of storage and use, hazardous reactions will not occur.

**10.4 Conditions to avoid:**

No specific data.

**10.5 Incompatible materials:**

No specific data.

**10.6 Hazardous decomposition products:**

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

**SECTION 11: Toxicological information****11.1 Information on toxicological effects**reaction product. bisphenolA-(epichlorhydrin) and epoxy resin (number average molecular weight  $\leq$  700), LD50 Dermal  $>2000$  mg/kgAcute toxicity:reaction product. bisphenolA-(epichlorhydrin) and epoxy resin (number average molecular weight  $\leq$  700), LD50 Oral  $>2000$  mg/kgIrritation/Corrosion:

Long-term repeated contact may cause irritation

Sensitisation:

May cause allergic reactions

Mutagenicity:

Not available

Carcinogenicity:

Agency of Research on Cancer (IARC) has not identified DGEBA (Bisphenol A diglycidyl ether) as a carcinogen

Reproductive toxicity:

Not available

Information on the likely routes of exposure:

Not available

**11.2 Other information:**

Not available

**SECTION 12: Ecological information****12.1 Toxicity**

Toxic to aquatic organisms. The mixture has not been tested, statements are derived from similar products

reaction product. bisphenolA-(epichlorhydrin) and epoxy resin (number average molecular weight  $\leq$  700), LC50 fish  $\leq 10$  mg/lreaction product. bisphenolA-(epichlorhydrin) and epoxy resin (number average molecular weight  $\leq$  700), LC50 organisms in water treatment  $\leq 10$  mg/l**12.2 Persistence and degradability**

Not available

**12.3 Bioaccumulative potential**

Not available

**12.4 Mobility in soil**

Not available

**12.5 Results of PBT and vPvB assessment**

Not applicable

**12.6 Other adverse effects**

No known significant effects or critical hazards

**SECTION 13: Disposal considerations****13.1 Waste treatment methods**

<u>Methods of disposal:</u>	Before disposal see information in SECTION 7 and SECTION 8. The generation of waste should be avoided or minimised wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.
<u>Hazardous waste:</u>	Yes. Waste code 08 01 11* - waste paint and varnish containing organic solvents or other dangerous substances (EU waste catalogue)
<u>Packaging:</u>	Completely emptied packaging or practically empty packaging containing dried/cured residues, once relieved of all pressure can be disposed of as non-hazardous waste. Packaging may still contain hazardous residues and disposal should be undertaken by a licensed waste contractor. Any disposal practice must be in compliance with local and national laws and regulations.

**SECTION 14: Transport information**

<b>14.1 UN number:</b>	UN 3082
<b>14.2 UN proper shipping name:</b>	Environmentally hazardous substances, liquid, n.o.s. Epoxide resin
<b>14.3 Transport hazard class(es):</b>	9
<b>14.4 Packaging group:</b>	III
<b>14.5 Environmental hazards:</b>	see SECTION 6
<b>14.6 Special precautions for user:</b>	see SECTION 7 ja 8
<b>14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:</b>	Not applicable

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Regulation (EC) 1907/2006 on the Registration, Evaluation, Authorisation and Restriction of Chemicals - REACH

Annex XIV - List of substances subject to authorisation

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Regulation (EC) 1272/2008 on the classification, labelling and packaging (CLP) of substances and mixtures - CLP

Hazardous waste ja transport regulations



## 15.2 Chemical Safety Assessment

A chemicals Safety Assessment has not been done

## SECTION 16: Other information

### 16.1 Classification for mixtures and used evaluation method according to regulation (EC) 1207/2008:

Classification according to Regulation (EC) Nr 1207/2008	Classification procedure (Art. 9 CLP regulation)
Skin Irrit. 2 ; H315	Expert judgement
Skin Sens. 1; H317	Expert judgement
Eye Irrit. 2 ; H319	Expert judgement
Acute Tox. 4; H312+H332	On basis of test data
Aquatic Chronic 2; H411	Calculation method

### 16.2 Abbreviations and acronyms:

#### Pictograms:



GHS07



GHS09

#### H-phrases:

Skin Irritant Category 2 ; H315  
 Skin Sensitation Category 1; H317  
 Eye Irritatin Category 2 ; H319  
 Aquatic Chronic Category 2; H411  
 Acute Toxicity Category 4; H312+H332

H315 - Causes skin irritation.  
 H317 - May cause an allergic skin reaction.  
 H319 - Causes serious eye irritation.  
 H411 - Toxic to aquatic life with long lasting effects.  
 H312 -Harmful in contact with skin.  
 H332 - Harmful if inhaled.

**EUH210 - Safety data sheet available on request.**

#### P-phrases:

P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
 P302+P352 - IF ON SKIN: Wash with plenty of soap and water.  
 P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P337+P313 - If eye irritation persists: Get medical advice/attention.  
 P273 - Avoid release to the environment.  
 P391 - Collect spillage.  
 P501 - Dispose of contents/container in accordance with local/regional/national/international