

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

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Previous version: -  
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## MATERIAL SAFETY DATA SHEET "EPOKATE RAPID" (B)

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

#### 1.1 Product identifier

EPOKATE RAPID (B)

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

Identified uses:

Epokate RAPID (B) is used as hardener in two-component epoxy-resin flooring systems, mainly as coating material. 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).

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

Manufacturer/Distributor:

Address:

Telefoninumber:

E-posti address:

Epokate OÜ

Savimäe 5, Vahi küla, Tartu vald, 60534, Tartumaa, Estonia

+ 372 50 83 751

info@epokate.ee

#### 1.4 Emergency telephone number:

Poisoning information centre:

Rescue:

16662 (24-hour emergency response hotline)

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:

Acute Tox. 3; H301+311+H331

Skin Corr. 1B; H314

Eye Irrit. 1; H318

Skin Sens. 1B; H317

Muta. 2; H341

STOT RE 2; H373

Aquatic Acute 1; H400

Aquatic Chronic 1; H410

#### 2.2 Label elements:

Hazard pictograms:



Signal word:

**DANGER**

Hazard statements:

H301 - Toxic if swallowed.

H311 - Toxic in contact with skin.

H331 - Toxic if inhaled.

H314 - Causes severe skin burns and eye damage.

H318 - Causes serious eye damage.

H317 - May cause an allergic skin reaction.

H341 - Suspected of causing genetic defects.

H373 - May cause damage to organs

H400 - Very toxic to aquatic life.

H410 - Very toxic to aquatic life with long lasting effects.

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

Precautionary statements:

P260 - Do not breathe dust/fume/gas/mist/vapours/spray.  
 P263 - Wash contaminated clothing before reuse.  
 P264 - Wash hands thoroughly after handling.  
 P273 - Avoid release to the environment.  
 P391 - Collect spillage.  
 P201 - Obtain special instructions before use.  
 P202 - Do not handle until all safety precautions have been read and understood.  
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
 P281 - Use personal protective equipment as required.

P301+P330+P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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 or doctor/physician.  
 P405 - Store locked up.

P403+P233 - Store in a well-ventilated place. Keep container tightly closed.  
 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 B for two-component epoxy flooring systems. Prior to use mix together with epoxy resin (component A)

Hazardous ingredients:

Substance name	CAS no.	REACH registration number	Concentration %	Classification according to REGULATION (EC) No. 1272/2008	
m-phenylenebis(methylamine)	1477-55-0	01-2119480150-49	35-45	Acute Tox. 4 Skin Corr. 1B Skin Sens. 1B Acute Tox. 4 Aquatic Chronic 2	H302 H314 H317 H332 H411
Formaldehyde, oligomeric reaction products with phenol	57214-10-5	01-2119966906-20	35-45	Aquatic Acute 1 Aquatic Chronic 1	H400 H410

Phenol	108-95-2	01-2119560597-27	10-20 ** M-factors: Skin Irrit. 2; H315: 1% ≤ C < 3% Eye Irrit. 2; H319: 1% ≤ C < 3% Skin Corr. 1B; H314: C ≥ 3%	Acute Tox. 3 Acute Tox. 3 Acute Tox. 3 Skin Corr. 1B Muta. 2 STOT RE 2	H301 H311 H331 H314 H341 H373
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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:

<u>Inhalation:</u>	Supply fresh air and call for doctor for safety reasons. In case of unconsciousness bring patient into stable side position for transport.
<u>Skin contact:</u>	Instantly wash with water and soap and rinse thoroughly. Cover wound with a sterile dressing. If skin irritation continues, consult a doctor.
<u>Eye contact:</u>	Rinse opened eye for several minutes under running water. Then consult doctor. Continue to bathe eyes during transport to medical practitioner.
<u>Ingestion:</u>	Rinse out mouth and then drink plenty of water. Call a doctor immediately. 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>	Take affected persons out of danger area and instruct to lie down. Instantly remove any clothing soiled by the product. 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>	Corrosive to eyes. Symptoms may include pain, watering, redness.
<u>Inhalation:</u>	Harmful by inhalation. May give off gas, vapour or dust that is very irritating or corrosive to the respiratory system. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
<u>Skin contact:</u>	Corrosive to the skin. Causes burns. Harmful in contact with skin. May cause sensitization by skin contact. Adverse symptoms may include irritation or pain, redness, blistering may occur.
<u>Ingestion:</u>	Harmful if swallowed. May cause burns to mouth, throat and stomach. Adverse symptoms may include stomach pains.

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

<u>Notes for the doctor:</u>	Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
<u>Special treatment:</u>	No specific treatment.

## SECTION 5: Fire fighting measures

### 5.1 Extinguishing media:

Suitable extinguishing media: Use dry chemical. CO<sub>2</sub>, extinguishing powder or water spray (fog).

Unsuitable extinguishing media: 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, nitrogen oxides.

### 5.3 Advice for firefighters:

Special protective actions for fire-fighter: 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.

Special protective equipment for fire-fighters: 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)

Recommendations:

Not available

Industrial sector specific solutions:

Not available

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Occupational exposure limits:

No exposure limit value known. **Recommended monitoring procedures:** 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.

Derived effect levels:

No DELs available

Predicted effect concentrations:

No PECs available

## 8.2 Exposure controls

### Appropriate engineering controls:

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.

### Individual protection measures:

Eye/face protection: 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.

Hygiene measures: 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.

Hand protection : 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	Amine-like
Odour threshold	Not available
pH	11 (ISO 8975)
Melting point/freezing point	Not available
Initial boiling point and boiling range	Not available
Boiling point	Not available

Flash point	127 °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	Not available
Relative density	1,05
Solubility(ies)	Slightly soluble in water
Partition coefficient: noctanol/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	500-4000 cps (25°C)
Explosive properties	Not explosive
Oxidising properties	Not available

## 9.2 Other information:

No additional information

## SECTION 10: Stability and reactivity

### 10.1 Reactivity:

Dangerous reactions Strong exothermic reaction with acids

### 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**

	Oral: 1477-55-0: LD50 980mg/kg (Female), 1090mg/kg (male) Rat (OECD 401) 108-95-2 : LD50 670mg/kg Rat; LD50 270mg/kg Mouse
<u>Acute toxicity:</u>	Skin: 1477-55-0: LD50 2,000mg/kg Rabbit 108-95-2 : LD50 670mg/kg Rat
<u>Irritation/Corrosion:</u>	Inhalation: 1477-55-0 : LC50 2,800ppm 4hr Rat; LC50 0.8mg/L (Female), > 1.42mg/L (male) 4hr Rat 108-95-2 : LC50 (Dust) 0.316mg/L 4hr Rat Corrosive
<u>Sensitisation:</u>	Long-term exposure may cause skin burns and allergic reactions.
<u>Mutagenicity:</u>	Not available
<u>Carcinogenicity:</u>	108-95-2: suspected to cause genetic defects. Possible carcinogen.
<u>Reproductive toxicity:</u>	Not available
<u>Information on the likely routes of exposure:</u>	Not available

**11.2 Other information:**

Not available

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

Product has not been tested. Data is taken from properties of similar products. Harmful to fish. Harmful to aquatic organisms. May cause long-term adverse effects in the water environment. Do not allow product to reach ground water, water bodies or sewage system.

**1477-55-0** (toxicity to fish):

LC50 87.6mg/L 96hr *Oryzias latipes* (OECD TG 203)

LC50 75mg/L 96hr Golden Orfe (OECD TG 203)

LC50 > 100mg/L 96hr Rainbow trout (OECD TG 203)

**108-95-2** (toxicity to fish):

LC50 10.9 - 12.3mg/L 96hr *oncorhynchus mykiss*

LC50 0.08mg/L 30day *oncorhynchus mykiss*

**1477-55-0** (toxicity to aquatic organisms):

ErC50 14mg/L 72hr *Selenastrum capricornutum* (OECD TG 201)

**108-95-2** (toxicity to aquatic organisms):

EC50 150mg/L 96hr *Selenastrum capricornutum* (OECD TG 201)

**12.2 Persistence and degradability**

Not available

**12.3 Bioaccumulative potential**

Not applicable

**12.4 Mobility in soil**

Not available

**12.5 Results of PBT and vPvB assessment**

Not available



## 12.6 Other adverse effects

No known significant effects or critical hazards

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Methods of disposal:

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.

Hazardous waste:

Yes. Waste code 08 01 11\* - waste paint and varnish containing organic solvents or other dangerous substances (EU waste catalogue)

Packaging:

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

14.1 UN number:	UN 2735
14.2 UN proper shipping name:	Polyamines, liquid, Corrosive, n.o.s. (TeTa, EpoCure)
14.3 Transport hazard class(es):	8
14.4 Packaging group:	III
14.5 Environmental hazards:	see SECTION 6
14.6 Special precautions for user:	see SECTION 7 ja 8
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:	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)
Acute Tox. 3; H301+311+H331	Expert judgement
Skin Corr. 1B; H314	Expert judgement
Eye Irrit. 1; H318	Expert judgement

Skin Sens. 1B; H317	Expert judgement
Muta. 2; H341	Expert judgement
STOT RE 2; H373	Expert judgement
Aquatic Acute 1; H400	Expert judgement
Aquatic Chronic 1; H410	Expert judgement

## 16.2 Abbreviations and acronyms:

### Pictograms:



GHS05



GHS06



GHS07



GHS09

### H-phrases:

Acute Toxicity Category 3; H301+311+H331  
 Skin Corrosive Category 1B; H314  
 Eye Irritant Category 1; H318  
 Skin Sensitation Category 1B; H317  
 Mutagenic Category 2; H341  
 Specific Target Organ Toxicity Repeated Exposure Category 2; H373  
 Aquatic Acute Toxicity Category 1; H400  
 Aquatic Chronic Toxicity Category 1; H410

H301 - Toxic if swallowed.  
 H311 - Toxic in contact with skin.  
 H331 - Toxic if inhaled.  
 H314 - Causes severe skin burns and eye damage.  
 H318 - Causes serious eye damage.  
 H317 - May cause an allergic skin reaction.  
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 H400 - Very toxic to aquatic life.  
 H410 - Very toxic to aquatic life with long lasting effects.

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

### P-phrases:

P260 - Do not breathe dust/fume/gas/mist/vapours/spray.  
 P363 - Wash contaminated clothing before reuse.  
 P264 - Wash hands thoroughly after handling.  
 P273 - Avoid release to the environment.  
 P391 - Collect spillage.  
 P201 - Obtain special instructions before use.  
 P202 - Do not handle until all safety precautions have been read and understood.  
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
 P281 - Use personal protective equipment as required.  
 P301+P330+P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
 P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact  
 P310 - Immediately call a POISON CENTER or doctor/physician.  
 P405 - Store locked up.  
 P403+P233 - Store in a well-ventilated place. Keep container tightly closed.  
 P501 - Dispose of contents/container in accordance with local/regional/national/international regulations