Mortar Fix 1kg (Comp. A)

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

1.1. Product identifier

Trade name/designation:

Mortar Fix 1kg (Comp. A)

Article No.:
T602710

UFI:
8EH2-GSCD-T60Q-2303

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

Use of the substance/mixture:
Construction and repair application

*

1.3. Details of the supplier of the safety data sheet

Supplier:

KANDO Service GmbH
Hartleitnerstraße 3
4653 Eberstalzell
Austria
Telephone: +43 (0) 7241 213 79
E-mail: msds@kando.eu

1.4. Emergency telephone number

Vergiftungsinformationszentrale (VIZ), Stubenring 6, 1010 Wien, 24h: 01 406 43 43, Montag - Freitag: 8 bis 16 Uhr, Tel.: 01 406 68 98 (keine medizinische Auskunft) (Only available during office hours.)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Hazard classes and hazard categories	Hazard statements	Classification procedure
flammable liquids *(Flam. Liq. 3)*	H226: Flammable liquid and vapour.	On basis of test data.
Skin corrosion/irritation *(Skin Irrit. 2)*	H315: Causes skin irritation.	Calculation method.
Serious eye damage/eye irritation *(Eye Irrit. 2)*	H319: Causes serious eye irritation.	Calculation method.
Reproductive toxicity *(Repr. 2)*	H361d: Suspected of damaging the unborn child.	Calculation method.
STOT-repeated exposure *(STOT RE 1)*	H372: Causes damage to organs through prolonged or repeated exposure.	Calculation method.

2.2. Label elements

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

Hazard pictograms:



GHS02
Flame



GHS07
Exclamation mark



GHS08
Health hazard

Signal word: Danger

Hazard components for labelling:
Styrene; 2,2,4-TRIMETHYL-1,3-PENTANEDIOL

Hazard statements for physical hazards	
H226	Flammable liquid and vapour.

Hazard statements for health hazards	
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H361d	Suspected of damaging the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.

Supplemental hazard information: none

Precautionary statements Prevention	
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof [electrical/ventilating/lighting] equipment.

2.3. Other hazards
No data available

SECTION 3: Composition/information on ingredients

3.2. Mixtures
Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 100-42-5 EC No.: 202-851-5 REACH No.: 01-2119457861-32	**Styrene** Acute Tox. 4 (H332), Eye Irrit. 2 (H319), Flam. Liq. 3 (H226), Repr. 2 (H361d), STOT RE 1 (H372), Skin Irrit. 2 (H315)  Danger **Acute Toxicity Estimate** ATE (oral) 5,000 mg/kg ATE (dermal) > 2,000 mg/kg ATE (inhalation, vapour) 11.8 mg/L	10 – ≤ 20 weight-%
CAS No.: 6846-50-0 EC No.: 229-934-9 REACH No.: 01-2119451093-47	**2,2,4-TRIMETHYL-1,3-PENTANEDIOL** Aquatic Chronic 3 (H412), Repr. 2 (H361d)  Warning **Acute Toxicity Estimate** ATE (oral) > 2,000 mg/kg ATE (dermal) > 2,000 mg/kg ATE (inhalation, vapour) 6.5 mg/L	< 1 weight-%

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures
General information:
In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. Remove contaminated, saturated clothing. If unconscious but breathing normally, place in recovery position and seek medical advice. Do not leave affected person unattended. Warning First aider: Pay attention to self-protection!

Following inhalation:
Provide fresh air. In case of respiratory tract irritation, consult a physician. Get medical advice/attention if you feel unwell.

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In case of skin contact:
After contact with skin, wash immediately with plenty of water and soap. If skin irritation or rash occurs: Get medical advice/attention. Remove/Take off immediately all contaminated clothing. Take off immediately all contaminated clothing.

After eye contact:
In case of contact with eyes, rinse immediately thoroughly with plenty of edible oil and consult an ophthalmologist.

Following ingestion:
Get medical advice/attention if you feel unwell. Seek medical advice immediately (poison centre). Rinse mouth. Let 1 glass of water be drunken in little sips (dilution effect).

Self-protection of the first aider:
Use personal protection equipment. No direct artificial respiration to be given by first aider.

4.2. Most important symptoms and effects, both acute and delayed
Following skin contact: Irritation
In case of eye contact: Causes eye irritation. Skin corrosion/irritation Serious eye damage/eye irritation

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:
Spray water, Dry extinguishing powder, Foam, CO2

5.2. Special hazards arising from the substance or mixture
Hazardous combustion products:
In case of fire: Gases/vapours, toxic

5.3. Advice for firefighters
Wear a self-contained breathing apparatus and chemical protective clothing.

5.4. Additional information
Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
6.1.1. For non-emergency personnel
Personal precautions:
Remove persons to safety.

Protective equipment:
Wear protective gloves/protective clothing/eye protection/face protection.

Emergency procedures:
Ventilate affected area. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with eyes and skin.

6.1.2. For emergency responders
Personal protection equipment:
Do not attempt to operate without suitable protective equipment. Personal protection equipment: see section 8

6.2. Environmental precautions
Avoid release to the environment. Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up
For containment:
Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

For cleaning up:
Solvents/Thinner

Other information:
In case of spillage into water or sewage system, inform the competent authorities. Dispose at an authorized site.

6.4. Reference to other sections
Disposal: see section 13 Safe handling: see section 7 Personal protection equipment: see section 8

6.5. Additional information
Use appropriate container to avoid environmental contamination.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:
Ensure good ventilation/extraction at the workplace. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground and bond container and receiving equipment. Only use non-sparking tools. Flammable vapours can accumulate in steam space of closed systems. Use personal protection equipment. Obtain special instructions before use. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with eyes and skin. Take precautionary measures against static discharge. Use explosion-proof equipment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protection equipment (refer to section 8). Avoid contact during pregnancy/while nursing.

Advices on general occupational hygiene
When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes. Wash contaminated clothing before reuse. Wash hands thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:
Keep container tightly closed in a cool, well-ventilated place. Ground/bond container and receiving equipment.

7.3. Specific end use(s)

Recommendation:
Building and construction work

SECTION 8: Exposure controls/personal protection

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8.1. Control parameters

8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
MAK (AT)	**Styrene** CAS No.: 100-42-5 EC No.: 202-851-5	② 80 ppm (340 mg/m³) ⑤ (max. 4x15 min./Schicht) d
MAK (AT)	**Styrene** CAS No.: 100-42-5 EC No.: 202-851-5	① 20 ppm (85 mg/m³) ⑤ d

8.1.2. Biological limit values
No data available

8.1.3. DNEL-/PNEC-values
No data available

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8.2. Exposure controls

8.2.1. Appropriate engineering controls

Ensure good ventilation/extraction at the workplace.

8.2.2. Personal protection equipment



Eye/face protection:

Safety goggles Eye glasses with side protection EN 166

Skin protection:

Wear suitable protective clothing when working.Wear gloves for protection against chemicals according to EN 374.
Suitable material: NBR (Nitrile rubber), Butyl caoutchouc (butyl rubber), Viton® II
Breakthrough time: 6 (>480 min), Thickness of the glove material: 0,4 mm
As the product is a preperation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. Tested protective gloves must be worn EN ISO 374 In the case of wanting to use the gloves again, clean them before taking off and air them well. Breakthrough times and swelling properties of the material must be taken into consideration.

Respiratory protection:

In case of inadequate ventilation wear respiratory protection. EN 141

8.2.3. Environmental exposure controls

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: Liquid
Colour: various
Odour: characteristic
flammability: No data available

Safety relevant basis data

Parameter	Value	① Method ② Remark
pH	*No data available*	
Melting point	*not applicable*	
Freezing point	*No data available*	
Initial boiling point and boiling range	*No data available*	
Flash point	32 °C	
Evaporation rate	*No data available*	
Auto-ignition temperature	*No data available*	
Upper/lower flammability or explosive limits	*No data available*	
Vapour pressure	*No data available*	
Vapour density	*No data available*	
Density	1.73 g/cm³	
Bulk density	*not applicable*	
Water solubility	practically insoluble	
Dynamic viscosity	*No data available*	
Kinematic viscosity	*No data available*	

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity
Flammable liquid and vapour.

10.2. Chemical stability
Stable under normal conditions.

10.3. Possibility of hazardous reactions
No dangerous reactions are known under normal use.

10.4. Conditions to avoid
Avoid contact with hot surfaces. Heat. No naked flames, no sparks. Remove all sources of ignition.

10.5. Incompatible materials
No data available

10.6. Hazardous decomposition products
No hazardous decomposition products if stored and used as directed.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Styrene CAS No.: 100-42-5 EC No.: 202-851-5	
LD_{50} oral: 5,000 mg/kg (Ratte)	
LD_{50} dermal: >2,000 mg/kg (Ratte)	
LC_{50} Acute inhalation toxicity (vapour): 11.8 mg/L (Ratte)	
2,2,4-TRIMETHYL-1,3-PENTANEDIOL CAS No.: 6846-50-0 EC No.: 229-934-9	
LD_{50} oral: >2,000 mg/kg (Ratte)	
LD_{50} dermal: >2,000 mg/kg (Kaninchen)	
LC_{50} Acute inhalation toxicity (vapour): 6.5 mg/L (Ratte)	

Acute oral toxicity:
Based on available data, the classification criteria are not met.

Acute dermal toxicity:
Based on available data, the classification criteria are not met.

Acute inhalation toxicity:
Based on available data, the classification criteria are not met.

Skin corrosion/irritation:
Causes skin irritation.

Serious eye damage/irritation:
Causes serious eye irritation.

Respiratory or skin sensitisation:
Based on available data, the classification criteria are not met.

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:
Suspected of damaging the unborn child.

STOT-single exposure:
Based on available data, the classification criteria are not met.

STOT-repeated exposure:
May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard:
Based on available data, the classification criteria are not met.

Additional information:
No data available

11.2. Information on other hazards
No data available

SECTION 12: Ecological information

12.1. Toxicity

2,2,4-TRIMETHYL-1,3-PENTANEDIOL CAS No.: 6846-50-0 EC No.: 229-934-9
EC_{50}: >1.46 mg/L (crustaceans, Daphnia magna)
EC_{50}: >7.49 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata)
NOEC: 0.7 mg/L 21 d (crustaceans, Daphnia magna)
LOEC: 1.3 mg/L 21 d (crustaceans, Daphnia magna)

12.2. Persistence and degradability
No data available

12.3. Bioaccumulative potential

2,2,4-TRIMETHYL-1,3-PENTANEDIOL CAS No.: 6846-50-0 EC No.: 229-934-9
Log K_{OW}: 2.95

12.4. Mobility in soil
No data available

12.5. Results of PBT and vPvB assessment

Styrene CAS No.: 100-42-5 EC No.: 202-851-5
Results of PBT and vPvB assessment: —
2,2,4-TRIMETHYL-1,3-PENTANEDIOL CAS No.: 6846-50-0 EC No.: 229-934-9
Results of PBT and vPvB assessment: —

12.6. Endocrine disrupting properties
No data available

12.7. Other adverse effects
No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Dispose of contents/container to an appropriate recycling or disposal facility. Flammable vapors can accumulate in the container.

Waste treatment options
Appropriate disposal / Product:
Consult the appropriate local waste disposal expert about waste disposal.

SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN number or ID number			
UN 3269	UN 3269	UN 3269	UN 3269
14.2. UN proper shipping name			
POLYESTER RESIN KIT	POLYESTER RESIN KIT	POLYESTER RESIN KIT	POLYESTER RESIN KIT
14.3. Transport hazard class(es)			
 3	 3	 3	 3
14.4. Packing group			
III	III	III	III

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.5. Environmental hazards			
No	No	No	No
14.6. Special precautions for user			
Special Provisions: 236, 340 **Limited quantity (LQ):** 5 L **Excepted Quantities (EQ):** E0 **Classification code:** F3 **Tunnel restriction code:** (E)	**Special Provisions:** 236, 340 **Limited quantity (LQ):** 5 L **Excepted Quantities (EQ):** E0 **Classification code:** F3	**Special Provisions:** 236, 340 **Limited quantity (LQ):** 5 L **EmS-No.:** F-E,S-D **Remark:** Polyester resin kits consist of two components: a base material (flammable liquid, packaging group II) and an activator (organic peroxide), each separately packed in an inner packaging.	**Special Provisions:** A66, A163 **Limited quantity (LQ):** Y370 **Excepted Quantities (EQ):** E0

14.7. Maritime transport in bulk according to IMO instruments

No data available

SECTION 15: Regulatory information

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

15.1.1. EU legislation

Restrictions on use:

Does not contain a substance subject to the restrictions of Annex XVII of REACH. Does not contain a REACH candidate substance. Does not contain a substance listed in REACH Annex XIV. Does not contain any substance subject to Regulation (EU) 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of dangerous chemicals. Does not contain any substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants. Does not contain any substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 concerning the placing on the market and use of precursors to explosives. Does not contain substance(s) included in the list of drug precursors (Regulation EC 273/2004 on drug precursors).

Other regulations (EU):

Hazard categories:
- P5a Flammable Liquids, Category 1 or 2
- P5b Flammable liquids
- P5c Flammable liquids of Categories 2 or 3, not covered by P5a and P5b

15.1.2. National regulations

No data available

15.2. Chemical Safety Assessment

No data available

SECTION 16: Other information

* **16.1. Indication of changes**

1.3.	Details of the supplier of the safety data sheet
8.1.	Control parameters
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture
16.1.	Indication of changes

16.2. Abbreviations and acronyms

ACGIH	American Conference of Governmental Industrial Hygienists
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
DIN	German Institute for Standardization / German Industrial Standard
DNEL	derived no-effect level
EC_{50}	Effective Concentration 50%
EN	European Standard
ES	Exposure scenario
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
ISO	International Standards Organisation
LC_{50}	Lethal (fatal) Concentration 50%
LD_{50}	Lethal (fatal) Dose 50%
MAK	Maximum concentration in the workplace air (CH)
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety & Health
NOEC	No Observed Effect Concentration
OEL	Threshold Limit Value
OSHA	Occupational Safety & Health Administration
PBT	persistent and bioaccumulative and toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation and Authorization of Chemicals
RID	Dangerous goods regulations for transport by rail
TRGS	Technische Regeln für Gefahrstoffe
UN	United Nations

16.3. Key literature references and sources for data

No data available

16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
flammable liquids *(Flam. Liq. 3)*	H226: Flammable liquid and vapour.	On basis of test data.
Skin corrosion/irritation *(Skin Irrit. 2)*	H315: Causes skin irritation.	Calculation method.
Serious eye damage/eye irritation *(Eye Irrit. 2)*	H319: Causes serious eye irritation.	Calculation method.
Reproductive toxicity *(Repr. 2)*	H361d: Suspected of damaging the unborn child.	Calculation method.
STOT-repeated exposure *(STOT RE 1)*	H372: Causes damage to organs through prolonged or repeated exposure.	Calculation method.

16.5. List of relevant hazard statements and/or precautionary statements from sections 2 to 15

Hazard statements	
H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H361d	Suspected of damaging the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

16.6. Training advice
No data available

16.7. Additional information
To the best of our knowledge, the information contained herein is accurate. However, neither the above-mentioned supplier nor its subsidiaries assume any liability with regard to the correctness or completeness of the information provided. A final determination of the suitability of individual materials is the sole responsibility of the user. All materials may involve unknown risks and should be used with caution. While certain risks are described herein, we cannot guarantee that these are the only possible risks.

* Data changed compared with the previous version.