Mortar Fix 1kg (Comp. B)

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

1.1. Product identifier

Trade name/designation:

Mortar Fix 1kg (Comp. B)

Article No.:
T602710

UFI:
SWTY-FTSD-7H01-351V

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

Use of the substance/mixture:
Chemical anchorage

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
Serious eye damage/eye irritation *(Eye Irrit. 2)*	H319: Causes serious eye irritation.	
Respiratory or skin sensitisation *(Skin Sens. 1)*	H317: May cause an allergic skin reaction.	
Organic peroxides *(Org. Perox. E)*	H242: Heating may cause a fire.	
Hazardous to the aquatic environment *(Aquatic Acute 1)*	H400: Very toxic to aquatic life.	
Hazardous to the aquatic environment *(Aquatic Chronic 1)*	H410: Very toxic to aquatic life with long lasting effects.	

2.2. Label elements

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

Hazard pictograms:



GHS02
Flame



GHS07
Exclamation mark



GHS09
Environment

Signal word: Warning

Hazard components for labelling:
Benzoylperoxid; ethane-1,2-diol

Hazard statements for physical hazards	
H242	Heating may cause a fire.

Hazard statements for health hazards	
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.

Hazard statements for environmental hazards	
H410	Very toxic to aquatic life with long lasting effects.

Supplemental hazard information: none

Precautionary statements Prevention	
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P234	Keep only in original packaging.
P240	Ground and bond container and receiving equipment.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash hands, forearms and the face thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.

2.3. Other hazards

Other adverse effects:
The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.

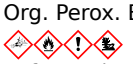
SECTION 3: Composition/information on ingredients

*

3.2. Mixtures

Additional information:
For full text of Hazard- and EU Hazard-statements: see SECTION 16.

Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 94-36-0 EC No.: 202-327-6 REACH No.: 01-2119511472-50	**Benzoylperoxid** Aquatic Acute 1 (H400), Aquatic Chronic 1 (H410), Eye Irrit. 2 (H319), Org. Perox. B (H241), Skin Sens. 1 (H317)  Danger M-factor (acute): 10 M-factor (chronic): 10 **Acute Toxicity Estimate** ATE (oral) > 2,000 mg/kg	50 weight-%
CAS No.: 107-21-1 EC No.: 203-473-3 REACH No.: 01-2119456816-28	**ethane-1,2-diol** Acute Tox. 4 (H302), STOT RE 2 (H373)  Warning **Acute Toxicity Estimate** ATE (oral) > 7,712 mg/kg ATE (dermal) 3,500 mg/kg	3 – < 10 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.

Following inhalation:
Remove person to fresh air and keep comfortable for breathing.

Mortar Fix 1kg (Comp. B)

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

After eye contact:
Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Following ingestion:
Get medical advice/attention if you feel unwell.

Self-protection of the first aider:
Use personal protection equipment.

4.2. Most important symptoms and effects, both acute and delayed
Following skin contact: May cause an allergic skin reaction.
In case of eye contact: Causes 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

5.2. Special hazards arising from the substance or mixture
Heating may cause a fire.
Possible release of toxic fumes. Combustible

Hazardous combustion products:
In case of fire: Gases/vapours, toxic

5.3. Advice for firefighters
Do not attempt to operate without suitable protective equipment. Self-contained respirator (breathing apparatus). Full protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
6.1.1. For non-emergency personnel
Personal precautions:
Ensure good ventilation/extraction at the workplace. Avoid contact with eyes and skin. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid breathing dust/ fume/gas/mist/vapours/spray.

6.1.2. For emergency responders
Personal protection equipment:
Do not attempt to operate without suitable protective equipment. Additional information: SECTION 8: Exposure controls/personal protection

6.2. Environmental precautions
Avoid release to the environment.

6.3. Methods and material for containment and cleaning up
For containment:
Collect spillage.

For cleaning up:
Take up mechanically. In case of spillage into water or sewage system, inform the competent authorities.

Other information:
Feed substances or residues in solid form to an approved facility.

6.4. Reference to other sections
For further information on disposal: see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:
Ensure good ventilation/extraction at the workplace. Avoid contact with eyes and skin. Avoid breathing dust/fume/gas/mist/vapours/spray. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use personal protection equipment.

Measures to prevent aerosol and dust generation:
Dust should be exhausted directly at the point of origin.

Advices on general occupational hygiene

Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:
Store separately. Avoid high temperatures or direct sunlight. Keep only in the original container in a cool, well-ventilated place.

Hints on storage assembly:
Keep away from flammable materials.

Storage class (TRGS 510, Germany): 13 – Non-combustible solids that cannot be assigned to any of the above storage classes

7.3. Specific end use(s)

Recommendation:
Building and construction work

SECTION 8: Exposure controls/personal protection

*

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)	**Benzoylperoxid** CAS No.: 94-36-0 EC No.: 202-327-6	② 10 mg/m³ ⑤ (einatembare Fraktion max. 8x5 min./Schicht, Momentanwert, Momentanwert) Sh
MAK (AT)	**Benzoylperoxid** CAS No.: 94-36-0 EC No.: 202-327-6	① 5 mg/m³ ⑤ (einatembare Fraktion) Sh
MAK (AT)	**ethane-1,2-diol** CAS No.: 107-21-1 EC No.: 203-473-3	① 10 ppm (26 mg/m³) ⑤ (kann über die Haut aufgenommen werden) H
MAK (AT)	**ethane-1,2-diol** CAS No.: 107-21-1 EC No.: 203-473-3	② 20 ppm (52 mg/m³) ⑤ (max. 8x5 min./Schicht, Momentanwert, kann über die Haut aufgenommen werden) H
IOELV (EU)	**ethane-1,2-diol** CAS No.: 107-21-1 EC No.: 203-473-3	① 20 ppm (52 mg/m³) ② 40 ppm (104 mg/m³) ⑤ (may be absorbed through the skin)

8.1.2. Biological limit values

No data available

8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
ethane-1,2-diol CAS No.: 107-21-1 EC No.: 203-473-3	35 mg/m³	① DNEL worker ② Long-term – inhalation, local effects
ethane-1,2-diol CAS No.: 107-21-1 EC No.: 203-473-3	7 mg/m³	① DNEL Consumer ② Long-term – inhalation, local effects
ethane-1,2-diol CAS No.: 107-21-1 EC No.: 203-473-3	106 mg/kg	① DNEL worker ② Long-term - dermal, systemic effects
ethane-1,2-diol CAS No.: 107-21-1 EC No.: 203-473-3	53 mg/kg	① DNEL Consumer ② Long-term - dermal, systemic effects

Substance name	PNEC Value	① PNEC type
ethane-1,2-diol CAS No.: 107-21-1 EC No.: 203-473-3	10 mg/L	① PNEC aquatic, freshwater
ethane-1,2-diol CAS No.: 107-21-1 EC No.: 203-473-3	1 mg/L	① PNEC aquatic, marine water
ethane-1,2-diol CAS No.: 107-21-1 EC No.: 203-473-3	37 mg/kg	① PNEC sediment, freshwater
ethane-1,2-diol CAS No.: 107-21-1 EC No.: 203-473-3	3.7 mg/kg	① PNEC sediment, marine water
ethane-1,2-diol CAS No.: 107-21-1 EC No.: 203-473-3	1.53 mg/kg	① PNEC soil
ethane-1,2-diol CAS No.: 107-21-1 EC No.: 203-473-3	10 mg/L	① PNEC aquatic, intermittent release

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

Skin protection:

Skin protection: Protective clothing.
Hand protection: Chemical protective gloves (according to European standard EN 374 or equivalent)
Type: Disposable gloves, Reusable gloves
Glove material: NBR (Nitrile rubber), Butyl caoutchouc (butyl rubber), Viton® II
Breakthrough time: 6 (> 480 min.)
Thickness of the glove material: 0,4mm; EN ISO 374
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.

Respiratory protection:

In case of inadequate ventilation wear respiratory protection. EN141

Thermal hazards:

No further relevant information available.

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: solid
Colour: white
Odour: characteristic
flammability: Yes

Safety relevant basis data

Parameter	Value	① Method ② Remark
pH	*No data available*	
Melting point	*No data available*	
Freezing point	*not applicable*	
Initial boiling point and boiling range	*No data available*	
Decomposition temperature	*No data available*	
Flash point	*not applicable*	
Evaporation rate	*No data available*	
Auto-ignition temperature	*not applicable*	
Upper/lower flammability or explosive limits	*not applicable*	
Vapour pressure	*No data available*	
Vapour density	*not applicable*	
Density	1.15 – 1.25 g/cm³	
Relative density		
Bulk density	*No data available*	
Water solubility	practically insoluble	
Kinematic viscosity	*not applicable*	

particle characteristics:
No data available

9.2. Other information
Self-accelerating decomposition temperature (SADT): 50°C

SECTION 10: Stability and reactivity

10.1. Reactivity
Heating may cause a fire.

10.2. Chemical stability
Chemically stable under conditions of storage, handling and use.

10.3. Possibility of hazardous reactions
No known hazardous reactions.

10.4. Conditions to avoid
Avoid contact with hot surfaces. Heat. No naked flames, no sparks. Keep away from sources of ignition - No smoking.

10.5. Incompatible materials
Combustible materials

10.6. Hazardous decomposition products
No known hazardous decomposition products.

Mortar Fix 1kg (Comp. B)

SECTION 11: Toxicological information

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

Benzoylperoxid CAS No.: 94-36-0 EC No.: 202-327-6
LD_{50} oral: >2,000 mg/kg (Rat)
ethane-1,2-diol CAS No.: 107-21-1 EC No.: 203-473-3
LD_{50} oral: >7,712 mg/kg (Rat)
LD_{50} dermal: 3,500 mg/kg

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

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

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

Skin corrosion/irritation:
Based on available data, the classification criteria are not met.

Serious eye damage/irritation:
Causes serious eye irritation.

Respiratory or skin sensitisation:
May cause an allergic skin reaction.

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

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.

Additional information:
No data available

11.2. Information on other hazards

Endocrine disrupting properties:
No further relevant information available.

SECTION 12: Ecological information

12.1. Toxicity

Benzoylperoxid CAS No.: 94-36-0 EC No.: 202-327-6
LC_{50}: 0.0602 mg/L (fish, Oncorhynchus mykiss)
EC_{50}: 0.11 mg/L (crustaceans, Daphnia magna)
ErC_{50}: 0.071 mg/L (Algae/water plant)

Mortar Fix 1kg (Comp. B)

ethane-1,2-diol CAS No.: 107-21-1 EC No.: 203-473-3
LC_{50}: >72,860 mg/L (fish, Pimephales promelas)
EC_{50}: >100 mg/L (crustaceans, Daphnia magna)
EC_{50}: 6,500 – 13,000 mg/L 4 d (Algae/water plant)
EC_{50}: 100 mg/L
NOEC: ≥1,000 mg/L 21 d (crustaceans, Americamysis bahia)
NOEC: 8,590 mg/L (crustaceans, Chronic Crustacea)
NOEC: 15,380 mg/L (fish)

Aquatic toxicity:
Very toxic to aquatic life with long lasting effects.

Assessment/classification:
Very toxic to aquatic life with long lasting effects.

12.2. Persistence and degradability

Benzoylperoxid CAS No.: 94-36-0 EC No.: 202-327-6
Biodegradation: not determined
Remark: IARC Group: 3 - Not classified
ethane-1,2-diol CAS No.: 107-21-1 EC No.: 203-473-3
Biodegradation: Yes, rapidly
Remark: Readily biodegradable (according to OECD criteria).

Additional information:
No further relevant information available.

12.3. Bioaccumulative potential

Benzoylperoxid CAS No.: 94-36-0 EC No.: 202-327-6
Log K_{OW}: 3.46
ethane-1,2-diol CAS No.: 107-21-1 EC No.: 203-473-3
Log K_{OW}: -1.36
Bioconcentration factor (BCF): 10

Accumulation / Evaluation:
No further relevant information available.

12.4. Mobility in soil
ethane-1,2-diol: 0,2

12.5. Results of PBT and vPvB assessment

Benzoylperoxid CAS No.: 94-36-0 EC No.: 202-327-6
Results of PBT and vPvB assessment: —
ethane-1,2-diol CAS No.: 107-21-1 EC No.: 203-473-3
Results of PBT and vPvB assessment: —

No further relevant information available.

12.6. Endocrine disrupting properties
No further relevant information available.

12.7. Other adverse effects
No further relevant information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Dispose at an authorized site.

Mortar Fix 1kg (Comp. B)

Waste treatment options

Appropriate disposal / Product:
Dispose of waste according to applicable legislation. Consult the appropriate local waste disposal expert about waste disposal.

Appropriate disposal / Package:
Dispose of waste according to applicable legislation.

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 3108	UN 3108	UN 3108	UN 3108
14.2. UN proper shipping name			
ORGANIC PEROXIDE TYPE E, SOLID	ORGANIC PEROXIDE TYPE E, SOLID	ORGANIC PEROXIDE TYPE E, SOLID	ORGANIC PEROXIDE TYPE E, SOLID
* **14.3. Transport hazard class(es)**			
 5.2	 5.2	 5.2	 5.2
14.4. Packing group			
		-	
14.5. Environmental hazards			
		 MARINE POLLUTANT	
14.6. Special precautions for user			
Special Provisions: 122, 274 **Limited quantity (LQ):** 500 g **Excepted Quantities (EQ):** E0 **Classification code:** P1 **Tunnel restriction code:** (D)	**Special Provisions:** 122, 274 **Limited quantity (LQ):** 500 g **Excepted Quantities (EQ):** E0 **Classification code:** P1	**Special Provisions:** 122, 274 **Limited quantity (LQ):** 500 g **Excepted Quantities (EQ):** E0 **EmS-No.:** F-J, S-R **Remark:** Decomposes at elevated temperatures or in a fire. Burns vigorously. Insoluble in water. Contact with the eyes and skin should be avoided. May evolve irritant or toxic fumes.	**Special Provisions:** A20, A802 **Excepted Quantities (EQ):** E0

14.7. Maritime transport in bulk according to IMO instruments
not applicable

SECTION 15: Regulatory information

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

15.1.1. EU legislation

Authorisations:
REACH Annex XVII (Restriction List): Does not contain any substance subject to the restrictions of Annex XVII of REACH.
REACH Annex XIV (Authorisation List): Does not contain any substance listed in REACH Annex XIV.

REACH Candidate List (SVHC): Does not contain a REACH candidate substance.
PIC Regulation (Prior Informed Consent): Does not contain any substances 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.
POPs Regulation (Persistent Organic Pollutants): Does not contain substances subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants.
Ozone Regulation (1005/2009): Contains no substance subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.
Explosives Precursors Regulation (2019/1148): Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.
Drug Precursors Regulation (273/2004): Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on drug precursors)

Other regulations (EU):

Hazard categories:

- P6b Self-reactive substances and mixtures, Type C, D, E or F, or organic peroxides, Type C, D, E or F
- E1 Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1

Directive 2004/42/EC on the limitation of emissions of volatile organic compounds:

Volatile organic compounds (VOC) content in percent by weight: 180 g/L

15.1.2. National regulations

No data available

15.2. Chemical Safety Assessment

A chemical safety assessment has not been carried out.

SECTION 16: Other information

* 16.1. Indication of changes

3.2.	Mixtures
8.1.	Control parameters
9.1.	Information on basic physical and chemical properties
14.3.	Transport hazard class(es)
16.1.	Indication of changes
16.2.	Abbreviations and acronyms

* 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
BCF	Bioconcentration Factor
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
IARC	International Agency for Research on Cancer
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
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
OECD	Organisation for Economic Cooperation and Development
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
VOC	Volatile organic compounds

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
Serious eye damage/eye irritation *(Eye Irrit. 2)*	H319: Causes serious eye irritation.	
Respiratory or skin sensitisation *(Skin Sens. 1)*	H317: May cause an allergic skin reaction.	
Organic peroxides *(Org. Perox. E)*	H242: Heating may cause a fire.	
Hazardous to the aquatic environment *(Aquatic Acute 1)*	H400: Very toxic to aquatic life.	
Hazardous to the aquatic environment *(Aquatic Chronic 1)*	H410: Very toxic to aquatic life with long lasting effects.	

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

Hazard statements	
H241	Heating may cause a fire or explosion.
H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic 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.