

SAFETY DATA SHEET LOKFIX E45T PART A

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

1.1. Product identifier

Product name LOKFIX E45T PART A

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

Identified uses Adhesive mortar for fastening elements. A-Component. For professional use.

1.3. Details of the supplier of the safety data sheet

Supplier Fosroc Sdn. Bhd.
 8, Jalan Trompet 33/8,
 Section 33, 40400, Shah Alam,
 Selangor Darul Ehsan,
 Malaysia.
 +603-51025660
 +603-51025668
 enquiry@malaysia.fosroc.com

1.4. Emergency telephone number

Emergency telephone +60126356730

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified
Health hazards Eye Irrit. 2 - H319 Skin Sens. 1 - H317
Environmental hazards Aquatic Chronic 3 - H412

2.2. Label elements

Hazard pictograms



Signal word Warning

Hazard statements H319 Causes serious eye irritation.
 H317 May cause an allergic skin reaction.
 H412 Harmful to aquatic life with long lasting effects.

Precautionary statements P261 Avoid breathing dust.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
 P302+P352 IF ON SKIN: Wash with plenty of water.
 P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.
 P337+P313 If eye irritation persists: Get medical advice/ attention.

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Contains TETRAMETHYLENE DIMETHACRYLATE, ETHYLENE DIMETHACRYLATE, VINYL TOLUENE, METHACRYLIC ACID, MONOESTER WITH PROPANE-1,2-DIOL, 2,2'-(4-METHYLPHENYLIMINO)DIETHANOL

Supplementary precautionary statements P264 Wash contaminated skin thoroughly after handling.
 P272 Contaminated work clothing should not be allowed out of the workplace.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P321 Specific treatment (see medical advice on this label).
 P362+P364 Take off contaminated clothing and wash it before reuse.
 P501 Dispose of contents/ container in accordance with national regulations.

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

TETRAMETHYLENE DIMETHACRYLATE 10-30%		
CAS number: 2082-81-7		
Classification		
Skin Sens. 1B - H317		
ETHYLENE DIMETHACRYLATE 1-5%		
CAS number: 97-90-5	EC number: 202-617-2	REACH registration number: 01-2119965172-38-XXXX
Classification		
Skin Sens. 1 - H317 STOT SE 3 - H335		
METHACRYLIC ACID, MONOESTER WITH PROPANE-1,2-DIOL 1-5%		
CAS number: 27813-02-1	EC number: 248-666-3	REACH registration number: 01-2119490226-37-XXXX
Classification		
Eye Irrit. 2 - H319 Skin Sens. 1B - H317		

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VINYLTOLUENE		1-5%
CAS number: 25013-15-4	EC number: 246-562-2	REACH registration number: 01-2119622074-50-XXXX
Classification Flam. Liq. 3 - H226 Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 STOT SE 3 - H335, H336 Asp. Tox. 1 - H304 Aquatic Chronic 2 - H411		
2,2'-(4-METHYLPHENYLIMINO)DIETHANOL		1-5%
CAS number: 3077-12-1	EC number: 221-359-1	REACH registration number: 01-2120791684-40-XXXX
Classification Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Dam. 1 - H318		
1,1'-(p-TOLYLIMINO)DIPROPAN-2-OL		<1%
CAS number: 38668-48-3	EC number: 254-075-1	REACH registration number: 01-2119980937-17-XXXX
Classification Acute Tox. 2 - H300 Aquatic Chronic 3 - H412		
1-ISOPROPYL-2,2-DIMETHYLTRIMETHYLENE DIISOBUTYRATE		<1%
CAS number: 6846-50-0	EC number: 229-934-9	REACH registration number: 01-2119451093-47-XXXX
Classification Repr. 2 - H361d Aquatic Chronic 3 - H412		

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1,4-NAPHTHOQUINONE			<1%
CAS number: 130-15-4	EC number: 204-977-6	REACH registration number: 01-2120760462-57-XXXX	
M factor (Acute) = 10	M factor (Chronic) = 10		
Classification			
Acute Tox. 3 - H301			
Acute Tox. 3 - H311			
Acute Tox. 2 - H330			
Skin Corr. 1C - H314			
Skin Sens. 1A - H317			
STOT SE 3 - H335			
Aquatic Acute 1 - H400			
Aquatic Chronic 1 - H410			

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information	Promptly remove any clothing that becomes contaminated. Get medical advice/attention if you feel unwell.
Inhalation	Move affected person to fresh air at once. If in doubt, get medical attention promptly.
Ingestion	Do not induce vomiting. Rinse mouth thoroughly with water. Get medical attention.
Skin contact	After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. Get medical attention. Wash contaminated clothing before reuse.
Eye contact	Rinse with water. Remove contact lenses, if present and easy to do. Continue rinsing. Continue to rinse for at least 15 minutes. Get medical attention.

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

Skin contact	Causes skin irritation. May cause skin sensitisation or allergic reactions in sensitive individuals.
Eye contact	Causes serious eye irritation.

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

Notes for the doctor	Treat symptomatically.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Extinguish with foam, carbon dioxide, dry powder or water fog.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products	Toxic pyrolysis products Carbon monoxide (CO).
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5.3. Advice for firefighters

Protective actions during firefighting	In case of fire and/or explosion do not breathe fumes. Use water spray to reduce vapours. Avoid the spillage or runoff entering drains, sewers or watercourses.
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Special protective equipment for firefighters Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Wear protective gloves, eye and face protection. Avoid contact with skin, eyes and clothing. Provide adequate ventilation.

6.2. Environmental precautions

Environmental precautions Avoid release to the environment. Avoid the spillage or runoff entering drains, sewers or watercourses.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Collect spillage. Absorb in vermiculite, dry sand or earth and place into containers. For waste disposal, see Section 13.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions For professional users only. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Take off contaminated clothing and wash it before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Keep only in the original container in a cool, well-ventilated place. Container must be kept tightly closed when not in use. Avoid contact with oxidising agents. Keep away from food, drink and animal feeding stuffs. Store at temperatures between 5°C and 25°C.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Ingredient comments No exposure limits known for ingredient(s).

TETRAMETHYLENE DIMETHACRYLATE (CAS: 2082-81-7)

DNEL Workers - Inhalation; Long term systemic effects: 14.5 mg/m³
Workers - Dermal; Long term systemic effects: 4.2 mg/kg/day

PNEC Fresh water; 0.087 mg/l
marine water; 0.0087 mg/l
Sediment (Freshwater); 3.12 mg/kg
Sediment (Marinewater); 0.312 mg/kg
STP; 20 mg/l
Soil; 0.573 mg/kg

METHACRYLIC ACID, MONOESTER WITH PROPANE-1,2-DIOL (CAS: 27813-02-1)

DNEL Workers - Inhalation; Long term systemic effects: 14.7 mg/m³
Workers - Dermal; Long term systemic effects: 4.2 mg/kg/day

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PNEC

Fresh water; 0.904 mg/l
 marine water; 0.904 mg/l
 Sediment (Freshwater); 6.28 mg/kg
 Sediment (Marinewater); 6.28 mg/kg
 STP; 10 mg/l
 Soil; 0.727 mg/kg

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate ventilation. Mechanical ventilation or local exhaust ventilation may be required.

Eye/face protection

Wear tight-fitting, chemical splash goggles or face shield.

Hand protection

To protect hands from chemicals, gloves should comply with European Standard EN374. It is recommended that gloves are made of the following material: Nitrile rubber. Thickness: > 0.2 mm

Other skin and body protection

Wear protective clothing.

Hygiene measures

Take off contaminated clothing and wash it before reuse. Wash contaminated skin thoroughly after handling. Wash after use and before eating, smoking and using the toilet. Do not eat, drink or smoke when using this product.

Respiratory protection

If ventilation is inadequate, suitable respiratory protection must be worn. Wear a respirator fitted with the following cartridge: Combination filter, type A2/P2.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Solid. Paste.
Colour	Beige.
Odour	Characteristic.
pH	Not determined.
Melting point	Not determined.
Initial boiling point and range	Not determined.
Flash point	Not applicable.
Evaporation rate	Not determined.
Flammability (solid, gas)	Not determined.
Upper/lower flammability or explosive limits	Not determined.
Vapour pressure	Not determined.
Relative density	1.72 @ 20°C
Solubility(ies)	Insoluble in water.
Partition coefficient	Not determined.

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Auto-ignition temperature	Not determined.
Decomposition Temperature	Not determined.
Explosive properties	Not considered to be explosive.
Oxidising properties	Does not meet the criteria for classification as oxidising.

9.2. Other information

Other information	No data available.
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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	Stable at normal ambient temperatures and when used as recommended.
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10.2. Chemical stability

Stability	Stable at normal ambient temperatures.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Strong oxidising agents.
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10.4. Conditions to avoid

Conditions to avoid	Avoid heat. Avoid exposure to high temperatures or direct sunlight.
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10.5. Incompatible materials

Materials to avoid	Oxidising agents.
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10.6. Hazardous decomposition products

Hazardous decomposition products	No known hazardous decomposition products.
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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

ATE oral (mg/kg)	2,814.74
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Acute toxicity - inhalation

ATE inhalation (vapours mg/l)	363.27
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Skin corrosion/irritation

Skin corrosion/irritation	Based on available data the classification criteria are not met.
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Serious eye damage/irritation

Serious eye damage/irritation	Causes serious eye irritation.
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Respiratory sensitisation

Respiratory sensitisation	Based on available data the classification criteria are not met.
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Skin sensitisation

Skin sensitisation	May cause an allergic skin reaction.
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Germ cell mutagenicity

Summary	Based on available data the classification criteria are not met.
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Carcinogenicity

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Carcinogenicity Based on available data the classification criteria are not met.

Reproductive toxicity

Summary Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

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

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Based on available data the classification criteria are not met.

Aspiration hazard

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

Toxicological information on ingredients.

TETRAMETHYLENE DIMETHACRYLATE

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ > 5000 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ > 3000 mg/kg, Dermal, Rabbit

ETHYLENE DIMETHACRYLATE

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ 8700 mg/kg, Oral, Rat

METHACRYLIC ACID, MONOESTER WITH PROPANE-1,2-DIOL

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ 11200 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ > 5000 mg/kg, Dermal, Rabbit

VINYLTOLUENE

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ 3275 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ >4450 mg/kg, Dermal, Rabbit

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ vapours mg/l) 17.8

Species Rat

Acute toxicity inhalation (LC₅₀ dust/mist mg/l) 1.5

ATE inhalation (vapours mg/l) 17.8

Carcinogenicity

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IARC carcinogenicity IARC Group 3 Not classifiable as to its carcinogenicity to humans.

2,2'-(4-METHYLPHENYLIMINO)DIETHANOL

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 300.0

Species Rat

ATE oral (mg/kg) 500.0

SECTION 12: Ecological information

Ecotoxicity Harmful to aquatic life with long lasting effects.

12.1. Toxicity

Ecological information on ingredients.

TETRAMETHYLENE DIMETHACRYLATE

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 32.5 mg/l,

Acute toxicity - aquatic invertebrates NOEC, 21 days: 5.09 mg/l,

Acute toxicity - aquatic plants NOEC, 3 days: 2.11 mg/l,

Acute toxicity - microorganisms NOEC, 28 days: 20 mg/l, Activated sludge

METHACRYLIC ACID, MONOESTER WITH PROPANE-1,2-DIOL

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 379 mg/l,

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: > 143 mg/l,
NOEC, 21 days: 45.2 mg/l,

Acute toxicity - aquatic plants EC₅₀, 72 hours: > 97.2 mg/l,

VINYLTOLUENE

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 5.2 mg/l, Pimephales promelas (Fat-head Minnow)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 1.3 mg/l, Daphnia magna

Acute toxicity - aquatic plants NOEC, 3 days: 1.6 mg/l, Algae

2,2'-(4-METHYLPHENYLIMINO)DIETHANOL

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 735 mg/l,

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Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 94.4 mg/l,

12.2. Persistence and degradability

Persistence and degradability The product contains persistent (not readily degradable) substances. The other substances in the product are expected to be readily biodegradable.

Ecological information on ingredients.

TETRAMETHYLENE DIMETHACRYLATE

Biodegradation OECD 310
- Degradation 84 %: 28 days

METHACRYLIC ACID, MONOESTER WITH PROPANE-1,2-DIOL

Biodegradation - Degradation 81 %: 28 days
OECD 310

12.3. Bioaccumulative potential

Bioaccumulative potential Not determined.

Partition coefficient Not determined.

Ecological information on ingredients.

TETRAMETHYLENE DIMETHACRYLATE

Partition coefficient log Pow: 3.1

VINYLTOLUENE

Bioaccumulative potential BCF: < 500,

Partition coefficient log Pow: 3.58

2,2'-(4-METHYLPHENYLIMINO)DIETHANOL

Partition coefficient log Pow: 1.09

12.4. Mobility in soil

Mobility Insoluble in water.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

Ecological information on ingredients.

VINYLTOLUENE

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

12.6. Other adverse effects

Other adverse effects None known.

SECTION 13: Disposal considerations

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13.1. Waste treatment methods

General information	Dispose of waste product or used containers in accordance with local regulations
Waste class	080409 150110

SECTION 14: Transport information

General	The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).
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14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Not applicable.

**Annex II of MARPOL 73/78
and the IBC Code**

SECTION 15: Regulatory information

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

National regulations Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013 (CLASS Regulations)

Guidance Industry Code of Practise on Chemical Classification and Hazard Communication 2014

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

General information	For professional use only. Only trained personnel should use this material.
Revision comments	This is the first issue.
Revision date	19/11/2021
Revision	1
SDS number	30346

LOKFIX E45T PART A

Hazard statements in full

H226 Flammable liquid and vapour.
H300 Fatal if swallowed.
H301 Toxic if swallowed.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H311 Toxic 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.
H319 Causes serious eye irritation.
H330 Fatal if inhaled.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H361d Suspected of damaging the unborn child.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

SAFETY DATA SHEET LOKFIX E45T PART B

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

1.1. Product identifier

Product name LOKFIX E45T PART B

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

Identified uses Adhesive mortar for fastening elements. B-Component. For professional use.

Uses advised against No specific uses advised against are identified.

1.3. Details of the supplier of the safety data sheet

Supplier Fosroc Sdn. Bhd.
 8, Jalan Trompet 33/8,
 Section 33, 40400, Shah Alam,
 Selangor Darul Ehsan,
 Malaysia.
 +603-51025660
 +603-51025668
 enquiry@malaysia.fosroc.com

1.4. Emergency telephone number

Emergency telephone +60126356730

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified

Health hazards Eye Irrit. 2 - H319 Skin Sens. 1 - H317

Environmental hazards Not Classified

2.2. Label elements

Hazard pictograms



Signal word Warning

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

Precautionary statements P261 Avoid breathing dust.
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
 P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.
 P337+P313 If eye irritation persists: Get medical advice/ attention.
 P362+P364 Take off contaminated clothing and wash it before reuse.
 P501 Dispose of contents/ container in accordance with national regulations.

LOKFIX E45T PART B

Contains DIBENZOYL PEROXIDE

Supplementary precautionary statements P264 Wash contaminated skin thoroughly after handling.
 P272 Contaminated work clothing should not be allowed out of the workplace.
 P302+P352 IF ON SKIN: Wash with plenty of 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.
 P321 Specific treatment (see medical advice on this label).
 P363 Wash contaminated clothing before reuse.

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

DIBENZOYL PEROXIDE		10 - <15 %
CAS number: 94-36-0	EC number: 202-327-6	REACH registration number: 01-2119511472-50-XXXX
M factor (Acute) = 10	M factor (Chronic) = 10	
Classification		
Org. Perox. B - H241		
Eye Irrit. 2 - H319		
Skin Sens. 1 - H317		
Aquatic Acute 1 - H400		
Aquatic Chronic 1 - H410		

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

Composition comments The product has been tested for aquatic toxicity. The test results show no need for classification of the product as toxic and harmful to aquatic life. Test reports are available.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation Move affected person to fresh air at once. If in doubt, get medical attention promptly.

Ingestion Rinse mouth thoroughly with water. Get medical attention.

Skin contact Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention. Wash contaminated clothing before reuse.

Eye contact Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Continue to rinse for at least 15 minutes. Get medical attention immediately.

Protection of first aiders Pay attention to self-protection. Take off immediately all contaminated clothing and wash it before reuse. Get medical advice/attention if you feel unwell.

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

Skin contact May cause skin sensitisation or allergic reactions in sensitive individuals.

Eye contact Causes serious eye irritation.

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

Notes for the doctor Treat symptomatically.

SECTION 5: Firefighting measures

LOKFIX E45T PART B

5.1. Extinguishing media

Suitable extinguishing media Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products Toxic pyrolysis products Carbon monoxide (CO).

5.3. Advice for firefighters

Protective actions during firefighting Use water spray to reduce vapours. Control run-off water by containing and keeping it out of sewers and watercourses.

Special protective equipment for firefighters Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Provide adequate ventilation. Avoid contact with skin, eyes and clothing.

6.2. Environmental precautions

Environmental precautions Avoid the spillage or runoff entering drains, sewers or watercourses.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Contain and absorb spillage with sand, earth or other non-combustible material. Collect and dispose of spillage as indicated in Section 13.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions For professional users only. Use only outdoors or in a well-ventilated area. Wear appropriate clothing to prevent skin contamination. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Remove contaminated clothing.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry, cool and well-ventilated place. Avoid contact with oxidising agents. Store at temperatures between 5°C and 25°C. Keep away from food, drink and animal feeding stuffs.

Storage class Chemical storage.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Occupational exposure limits

DIBENZOYL PEROXIDE

LOKFIX E45T PART B

Long-term exposure limit (8-hour TWA): WEL 5 mg/m³

Short-term exposure limit (15-minute): WEL

WEL = Workplace Exposure Limit.

DIBENZOYL PEROXIDE (CAS: 94-36-0)

DNEL	Workers - Inhalation; Long term systemic effects: 39 mg/m ³ Workers - Dermal; Long term systemic effects: 13.3 mg/m ³
PNEC	- Fresh water; 0.02 µg/l - marine water; 0.002 µg/l - STP; 0.35 mg/l - Sediment (Freshwater); 0.013 mg/kg - Sediment (Marinewater); 0.001 mg/kg Soil; 0.003 mg/kg

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate ventilation. Mechanical ventilation or local exhaust ventilation may be required.

Eye/face protection

Chemical splash goggles or face shield.

Hand protection

It is recommended that gloves are made of the following material: Nitrile rubber. Protective gloves should have a minimum thickness of 0.2 mm. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material.

Other skin and body protection

Wear appropriate clothing to prevent skin contamination.

Hygiene measures

Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Take off contaminated clothing and wash it before reuse.

Respiratory protection

If ventilation is inadequate, suitable respiratory protection must be worn. Wear a respirator fitted with the following cartridge: Combination filter, type A2/P2.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Paste.
Colour	Black.
Odour	Characteristic.
pH	Not applicable.
Melting point	Not determined.
Initial boiling point and range	Not determined.
Flash point	Not applicable.
Evaporation rate	Not determined.
Flammability (solid, gas)	Not determined.

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Upper/lower flammability or explosive limits	Not determined.
Vapour pressure	Not determined.
Vapour density	Not determined.
Relative density	1.59 @ 20°C
Solubility(ies)	Insoluble in water.
Partition coefficient	Not determined.
Auto-ignition temperature	Not determined.
Decomposition Temperature	Not determined.
Explosive properties	Not considered to be explosive.
Oxidising properties	Does not meet the criteria for classification as oxidising.
<u>9.2. Other information</u>	
Volatile organic compound	This product contains a maximum VOC content of 4.3 %.
Active oxygen content	<1%

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity See Section 10.3 (Possibility of hazardous reactions) for further information.

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions The following materials may react violently with the product: Oxidising agents.

10.4. Conditions to avoid

Conditions to avoid Keep at temperature not exceeding 25°C.

10.5. Incompatible materials

Materials to avoid Strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition products Benzoic acid. Benzene. Biphenyl.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects This product has low toxicity.

Skin corrosion/irritation

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

Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye irritation.

Respiratory sensitisation

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Respiratory sensitisation Based on available data the classification criteria are not met.

Skin sensitisation

Skin sensitisation May cause an allergic skin reaction.

Germ cell mutagenicity

Summary Based on available data the classification criteria are not met.

Carcinogenicity

Carcinogenicity Based on available data the classification criteria are not met.

Reproductive toxicity

Summary Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

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

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Based on available data the classification criteria are not met.

Aspiration hazard

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

Toxicological information on ingredients.

DIBENZOYL PEROXIDE

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ >5000 mg/kg, Oral, Rat

SECTION 12: Ecological information

Ecotoxicity The product is not expected to be toxic to aquatic organisms.

12.1. Toxicity

Toxicity This product is not ecotoxic.

Acute aquatic toxicity

Acute toxicity - fish NOEC, : 250 mg/l, Danio rerio
LC₅₀, : >500 mg/l, Danio rerio
LC₁₀₀, : >>500 mg/l, Danio rerio

Acute toxicity - aquatic invertebrates NOEC, 48 hours: 100 mg/l, Daphnia magna
EC₅₀, 48 hours: > 500 mg/l, Daphnia magna
EC₁₀₀, 48 hours: >> 500 mg/l, Daphnia magna

Acute toxicity - aquatic plants IC₁₀, 0 - 72 hours: 30 mg/l, Desmodium subspicatus
IC₅₀, 0 - 72 hours: 150 mg/l, Desmodium subspicatus

Ecological information on ingredients.

DIBENZOYL PEROXIDE

Acute aquatic toxicity

LE(C)₅₀ 0.01 < L(E)C₅₀ ≤ 0.1

M factor (Acute) 10

Acute toxicity - fish LC₅₀, 96 hours: 0.06 mg/l, Fish

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Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 0.11 mg/l, Daphnia magna
Acute toxicity - aquatic plants	ErC ₅₀ , 72 hours: 0.0711 mg/l, Pseudokirchneriella subcapitata NOEC, 3 days: 0.02 mg/l, Pseudokirchneriella subcapitata
Acute toxicity - microorganisms	EC ₅₀ , : 35 mg/l, Activated sludge
<u>Chronic aquatic toxicity</u>	
NOEC	0.0001 < NOEC ≤ 0.001
Degradability	Rapidly degradable
M factor (Chronic)	10

12.2. Persistence and degradability

Persistence and degradability There are no data on the degradability of this product.

Ecological information on ingredients.

DIBENZOYL PEROXIDE

Persistence and degradability	The product is biodegradable.
Biodegradation	OECD 301D - Degradation 71 %: 28 days

12.3. Bioaccumulative potential

Bioaccumulative potential No specific test data are available.

Partition coefficient Not determined.

Ecological information on ingredients.

DIBENZOYL PEROXIDE

Bioaccumulative potential	BCF: 66.6,
Partition coefficient	log Pow: 3.2

12.4. Mobility in soil

Mobility The product is insoluble in water.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

Other adverse effects None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information	Dispose of waste product or used containers in accordance with local regulations Avoid discharge into drains or watercourses or onto the ground.
Waste class	08 04 09 15 01 10

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SECTION 14: Transport information

General The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78

and the IBC Code

SECTION 15: Regulatory information

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

National regulations Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013 (CLASS Regulations)

Guidance Industry Code of Practise on Chemical Classification and Hazard Communication 2014

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

General information For professional use only. Only trained personnel should use this material.

Revision date 19/11/2021

Revision 1

SDS number 30347

Hazard statements in full H241 Heating may cause a fire or explosion.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

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This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.