

Safety Data Sheet

MAPEFLEX BLACKFILL

Safety Data Sheet dated 5/6/2015, version 1

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

1.1. Product identifier

Trade name: MAPEFLEX BLACKFILL

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

Recommended use:

Bituminous mastics solvent based

Uses advised against:

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1.3. Details of the supplier of the safety data sheet

Supplier:

MAPEI U.K. Ltd - Mapei House Steel Park Road

Halesowen - West Midlands B62 8HD

Competent person responsible for the safety data sheet:

sicurezza@mapei.it

1.4. Emergency telephone number

MAPEI U.K. Ltd - phone: +44(0)121 508 6970

fax: +44(0)121 5086 960

www.mapei.co.uk (office hours)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)

- ⚠ Warning, Flam. Liq. 3, Flammable liquid and vapour.
Aquatic Chronic 3, Harmful to aquatic life with long lasting effects.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Symbols:



Warning

Hazard Statements:

H226 Flammable liquid and vapour.

H412 Harmful to aquatic life with long lasting effects.

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Precautionary Statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 Keep container tightly closed.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P370+P378 In case of fire, use a dry powder fire extinguisher to extinguish.

Special Provisions:

None

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

2.3. Other hazards

vPvB Substances: None - PBT Substances: None

Other Hazards:

No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

>= 5% - < 10% hydrocarbons C9 aromatics

REACH No.: 01-2119455851-35-xxxx, EC: 918-668-5

⚠ 2.6/3 Flam. Liq. 3 H226

⚠ 4.1/C2 Aquatic Chronic 2 H411

⚠ 3.10/1 Asp. Tox. 1 H304

⚠ 3.8/3 STOT SE 3 H335

⚠ 3.8/3 STOT SE 3 H336

>= 1% - < 2.5% xylene

REACH No.: 01-2119488216-32-xxxx, Index number: 601-022-00-9, CAS: 1330-20-7, EC: 215-535-7

⚠ 2.6/3 Flam. Liq. 3 H226

⚠ 3.1/4/Inhal Acute Tox. 4 H332

⚠ 3.1/4/Dermal Acute Tox. 4 H312

⚠ 3.2/2 Skin Irrit. 2 H315

>= 0.1% - < 0.25% toluene

REACH No.: 01-2119471310-51-XXXX, Index number: 601-021-00-3, CAS: 108-88-3, EC: 203-625-9

⚠ 2.6/2 Flam. Liq. 2 H225

⚠ 3.7/2 Repr. 2 H361

⚠ 3.10/1 Asp. Tox. 1 H304

⚠ 3.9/2 STOT RE 2 H373

⚠ 3.2/2 Skin Irrit. 2 H315

⚠ 3.8/3 STOT SE 3 H336

>= 0.1% - < 0.25% heptane; n-heptane;

REACH No.: 01-2119475515-33-xxxx, Index number: 601-008-00-2, CAS: 142-82-5, EC: 205-563-8

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- ⚠ 2.6/2 Flam. Liq. 2 H225
- ⚠ 3.10/1 Asp. Tox. 1 H304
- ⚠ 3.2/2 Skin Irrit. 2 H315
- ⚠ 3.8/3 STOT SE 3 H336
- ⚠ 4.1/A1 Aquatic Acute 1 H400
- ⚠ 4.1/C1 Aquatic Chronic 1 H410

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Wash with plenty of water and soap.

In case of eyes contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Wash immediately with water for at least 10 minutes.

In case of Ingestion:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

A suspension of activated charcoal in water, or petroleum jelly may be administered.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

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

The product is a liquid that can catch fire at temperatures in excess of 21 C if exposed to an ignition source.

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

Treatment:

(see paragraph 4.1)

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

None in particular.

In case of fire, use CO₂, chemical powders or foam.

Extinguishing media which must not be used for safety reasons:

None in particular.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

The original ingredients or unidentified toxic and/or irritant compounds may be present in the combustion fumes.

5.3. Advice for firefighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove all sources of ignition.

Remove persons to safety.

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See protective measures under point 7 and 8.

6.2. Environmental precautions

Limit leakages with earth or sand.

Eliminate all unguarded flames and possible sources of ignition. Do not smoke.

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up

Suitable material for taking up: absorbing material, organic, sand

Wash with plenty of water.

Retain contaminated washing water and dispose it.

6.4. Reference to other sections

See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

Do not smoke while working.

See also section 8 for recommended protective equipment.

Fine dust may form explosive mixture with air. Keep away from open flames, heat and sparks.

Do not remove shrink film in hazardous locations (because of risk of static charging/discharge)

7.2. Conditions for safe storage, including any incompatibilities

Always keep the containers tightly closed.

Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Cool and adequately ventilated.

7.3. Specific end use(s)

None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

hydrocarbons C9 aromatics

ACGIH - LTE mg/m³(8h): 100 mg/m³, 19 ppm

xylene - CAS: 1330-20-7

SUVA - LTE mg/m³: 221 mg/m³, 50 ppm - STE mg/m³: 442 mg/m³, 100 ppm

NDS - LTE mg/m³: 100 mg/m³

AGW - LTE mg/m³: 100 ppm - STE mg/m³: 200 ppm

EU - LTE mg/m³(8h): 221 mg/m³, 50 ppm - STE mg/m³: 442 mg/m³, 100 ppm - Notes:

Bold-type: Indicative Occupational Exposure Limit Values [2,3] and Limit Values for Occupational Exposure [4] (for references see bibliography)

ACGIH - LTE mg/m³(8h): 100 ppm - STE mg/m³: 150 ppm - Notes: A4, BEI - URT and eye irr, CNS impair

toluene - CAS: 108-88-3

SUVA - LTE mg/m³: 190 mg/m³, 50 ppm - STE mg/m³: 760 mg/m³, 200 ppm

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NDS - LTE mg/m³: 100 mg/m³
NDSch - LTE mg/m³: 200 mg/m³
EU - LTE mg/m³(8h): 192 mg/m³, 50 ppm - STE mg/m³: 384 mg/m³, 100 ppm - Notes: Bold-type: Indicative Occupational Exposure Limit Values [2,3] and Limit Values for Occupational Exposure [4] (for references see bibliography)
ACGIH - LTE mg/m³(8h): 20 ppm - Notes: A4, BEI - Visual impair, female repro, pregnancy loss

heptane; n-heptane; - CAS: 142-82-5
NDS - LTE mg/m³: 1200 mg/m³
NDSch - LTE mg/m³: 2000 mg/m³
EU - LTE mg/m³(8h): 2085 mg/m³, 500 ppm - Notes: Bold-type: Indicative Occupational Exposure Limit Values [2,3] and Limit Values for Occupational Exposure [4] (for references see bibliography)
ACGIH - LTE mg/m³(8h): 400 ppm - STE mg/m³: 500 ppm - Notes: CNS impair, URT irr

DNEL Exposure Limit Values
hydrocarbons C9 aromatics
Consumer: 11 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects
Consumer: 32 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Worker Industry: 150 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Consumer: 11 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Worker Industry: 25 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

toluene - CAS: 108-88-3
Worker Industry: 384 mg/m³ - Consumer: 226 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Worker Industry: 192 mg/m³ - Consumer: 56.5 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Consumer: 8.13 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects
Consumer: 226 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

PNEC Exposure Limit Values
toluene - CAS: 108-88-3
Target: Freshwater sediments - Value: 16.39 mg/kg - Notes:: PNEC
Target: Soil (agricultural) - Value: 2.89 mg/kg - Notes:: PNEC
Target: Marine water sediments - Value: 16.39 mg/kg - Notes:: PNEC
Target: Fresh Water - Value: 0.68 mg/l - Notes:: PNEC
Target: Marine water - Value: 0.68 mg/l - Notes:: PNEC
Target: MAP2 - Value: 0.68 mg/l - Notes:: PNEC

8.2. Exposure controls
Eye protection:
Not needed for normal use. Anyway, operate according good working practices.
Protection for skin:
No special precaution must be adopted for normal use.
Protection for hands:
Respiratory protection:
Not needed for normal use.
In case of insufficient ventilation use mask with B type filters (EN 14387).
Personal Protective Equipment should comply with relevant CE standards (as EN 374 for gloves and EN 166 for goggles), correctly maintained and stored. Consult the supplier to check the suitability of equipment against specific chemicals and for user information.

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Thermal Hazards:
None
Environmental exposure controls:
None

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance:	paste
Colour:	black
Odour:	typical
Odour threshold:	N.A.
pH:	N.A.
Melting point / freezing point:	N.A.
Initial boiling point and boiling range:	N.A.
Solid/gas flammability:	N.A.
Upper/lower flammability or explosive limits:	N.A.
Vapour density:	N.A.
Flash point:	> 30 °C
Evaporation rate:	N.A.
Vapour pressure:	N.A.
Relative density:	1,44±0,04 g/cm ³ (23°C)
Vapour density (air=1):	N.A.
Solubility in water:	insoluble
Solubility in oil:	partly soluble
Viscosity:	N.A.
Viscosity mm ² /s :	>7
Auto-ignition temperature:	N.A.
Explosion limits(by volume):	N.A.
Decomposition temperature:	N.A.
Partition coefficient (n-octanol/water):	N.A.
Explosive properties:	N.A.
Oxidizing properties:	N.A.

9.2. Other information

Miscibility:	N.A.
Fat Solubility:	N.A.
Conductivity:	N.A.
Substance Groups relevant properties	N.A.

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

None

10.4. Conditions to avoid

Stable under normal conditions.

10.5. Incompatible materials

Avoid contact with combustible materials. The product could catch fire.

10.6. Hazardous decomposition products

None.

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Route(s) of entry:

Ingestion: Yes
Inhalation: Yes
Contact: No

Toxicological information related to the product:

There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.

Toxicological information on main components of the mixture:

Toxicological information of the mixture:

N.A.

Toxicological information of the main substances found in the mixture:

xylene - CAS: 1330-20-7

a) acute toxicity:

Test: LC50 - Route: Inhalation - Species: Rat 26 mg/l - Duration: 4h

Test: LD50 - Route: Oral - Species: Rat > 3523 mg/kg

Test: LD50 - Route: Skin - Species: Rat > 4350 mg/kg

toluene - CAS: 108-88-3

a) acute toxicity:

Test: LC50 - Route: Inhalation - Species: Mouse = 5320 Ppm

Test: LD50 - Route: Oral - Species: Rat = 5580 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit = 12124 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat 28.1 mg/l - Duration: 4h

Corrosive/Irritating Properties:

Eye:

The product can cause a temporary irritation by contact.

Sensitizing Properties:

No effects are known.

Carcinogenic Effects:

No effects are known.

Mutagenic Effects:

No effects are known.

Teratogenic Effects:

No effects are known.

If not differently specified, the information required in Regulation 453/2010/EC listed below must be considered as N.A.:

- a) acute toxicity
- b) skin corrosion/irritation
- c) serious eye damage/irritation
- d) respiratory or skin sensitisation
- e) germ cell mutagenicity
- f) carcinogenicity
- g) reproductive toxicity
- h) STOT-single exposure
- i) STOT-repeated exposure
- j) aspiration hazard

SECTION 12: Ecological information

12.1. Toxicity

Adopt good industrial practices, so that the product is not released into the environment.

Not available data on the mixture

Biodegradability: not readily biodegradable

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Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
hydrocarbons C9 aromatics

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish 9.2 mg/l - Duration h: 96

xylene - CAS: 1330-20-7

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 13.5 mg/l

toluene - CAS: 108-88-3

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Daphnia = 3.78 mg/l - Duration h: 48

Endpoint: EC50 - Species: Fish = 57.68 mg/l - Duration h: 96

Endpoint: EC50 - Species: Algae > 433 mg/l - Duration h: 96

heptane; n-heptane; - CAS: 142-82-5

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 375 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia = 82.5 mg/l - Duration h: 48

Endpoint: LC50 - Species: Algae = 1.5 mg/l - Duration h: 72

12.2. Persistence and degradability

N.A.

12.3. Bioaccumulative potential

N.A.

12.4. Mobility in soil

N.A.

12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

12.6. Other adverse effects

None

Not available data on the mixture

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover if possible. In so doing, comply with the local and national regulations currently in force.

This material and its container must be disposed of as hazardous waste.

91/156/EEC, 91/689/EEC, 94/62/EC and subsequent amendments.

SECTION 14: Transport information

14.1. UN number

UN Number: 1133

14.2. UN proper shipping name

ADR-Shipping Name: UN 1133 ADHESIVES

14.3. Transport hazard class(es)

Rail/Road(RID/ADR): 3,III

Transport in accordance with the paragraphs 2.2.3.1.5 ADR or 2.3.2.5 IMDG

ADR-Upper number: NA

Sea (IMO/IMDG): 3,III

LIMITED QUANTITY (3.4.6. ADR e 3.4.2. IMDG)

Dangerous goods in limited quantities

EMS no: F-E, S-D

14.4. Packing group

ADR-Packing Group: 3,III

14.5. Environmental hazards

Marine pollutant: No

14.6. Special precautions for user

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ADR-Tunnel Restriction Code: D/E

EMS no: F-E, S-D

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

N.A.

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SECTION 15: Regulatory information

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

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Dir. 2006/8/EC

Regulation (EC) n. 1907/2006 (REACH)

Regulation (EC) n. 1272/2008 (CLP)

Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013

Regulation (EU) n. 453/2010 (Annex I)

Regulation (EU) n. 286/2011 (ATP 2 CLP)

Regulation (EU) n. 618/2012 (ATP 3 CLP)

Regulation (EU) n. 487/2013 (ATP 4 CLP)

Regulation (EU) n. 944/2013 (ATP 5 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product:

Restriction 3

Restriction 40

Restrictions related to the substances contained:

Restriction 48

Legislative Decree no. 81 of the 9th of April 2008 Title XI "Dangerous substances - Chapter I - Protection against chemical agents"

Directive 2000/39/CE and s.m.i. (Professional threshold limit)

Legislative Decree no. 152 of the 3rd of April 2006 and subsequent modifications and additions. (Environmental regulations)

Directive 105/2003/CE (Seveso III): N.A.

ADR Agreement – IMDG Code – IATA Regulation

Wassergefährdungsklasse (WGK): 2

VOC (2004/42/EC) : N.A. g/l

15.2. Chemical safety assessment

No

SECTION 16: Other information

Text of phrases referred to under heading 3:

H226 Flammable liquid and vapour.

H411 Toxic to aquatic life with long lasting effects.

H304 May be fatal if swallowed and enters airways.

H335 May cause respiratory irritation.

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H336 May cause drowsiness or dizziness.
H332 Harmful if inhaled.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H225 Highly flammable liquid and vapour.
H361 Suspected of damaging fertility or the unborn child.
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.

This safety data sheet has been completely updated in compliance to Regulation 453/2010/EU.

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

NIOSH - Registry of toxic effects of chemical substances
ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre,
Commission of the European Communities
SAX'S - Dangerous properties of industrial materials
Istituto Superiore di Sanità - Inventario Nazionale Sostanze Chimiche

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
CAS: Chemical Abstracts Service (division of the American Chemical Society).
CLP: Classification, Labeling, Packaging.
DNEL: Derived No Effect Level.
EINECS: European Inventory of Existing Commercial Chemical Substances.
GefStoffVO: Ordinance on Hazardous Substances, Germany.
GHS: Globally Harmonized System of Classification and Labeling of Chemicals.
IATA: International Air Transport Association.
IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO: International Civil Aviation Organization.
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG: International Maritime Code for Dangerous Goods.
INCI: International Nomenclature of Cosmetic Ingredients.
KSt: Explosion coefficient.
LC50: Lethal concentration, for 50 percent of test population.
LD50: Lethal dose, for 50 percent of test population.
LTE: Long-term exposure.
PNEC: Predicted No Effect Concentration.
RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.
STE: Short-term exposure.
STEL: Short Term Exposure limit.
STOT: Specific Target Organ Toxicity.
TLV: Threshold Limiting Value.
TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).

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OEL:	European threshold limit value
VLE:	Threshold Limiting Value.
WGK:	German Water Hazard Class.
TSCA:	United States Toxic Substances Control Act Inventory
DSL:	DSL - Canadian Domestic Substances List