Material Safety Data Sheet

Completed **10-09-2024**
Revision: (date) **-**
SDS version **1.0**

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

1.1. Product Identifier
Trade Name: EP Støbemasse B
Product- no.: 6570

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

The product is part of a 2-component system. Conformity with safety data sheet for both components when mixing with other component.

Uses advised against:
This product must not be used for purposes other than those recommended without first seeking the advice of the supplier.

1.3. Details of the supplier of the safety data sheet
Company and address:
Promal A/S
Joachim Wellers Vej 27
7500 Holstebro
DK
+45 96 10 50 80
www.promal.dk

Contact person and E-mail:
info@promal.dk

The Safety data sheet is completed and validated by:
Mediator A/S, Centervej 2, DK-6000 Kolding. Consultant: KN

1.4. Emergency telephone number
Use your national or local emergency number - For “First aid measures” see section 4.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
CLP (1272/2008):
Acute Tox. 4;H302
Skin Corr. 1A;H314
Skin Sens. 1A;H317
Aquatic Chronic 3;H412

See full text of H-phrases in section 16.

2.2. Label elements


Signal word:
Danger

Harmful if swallowed. (H302)
Causes severe skin burns and eye damage. (H314)
May cause an allergic skin reaction. (H317)
Harmful to aquatic life with long lasting effects. (H412)

Avoid release to the environment. (P273)
Wear protective gloves/protective clothing/eyeprotection/face protection. (P280)
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. (P303 + P361 + P353)
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. (P305 + P351 + P338 + P310)
Collect spillage. (P391)

2.3. Other hazards
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Additional labelling:
-

Additional warnings
-

SECTION 3: Composition/information on ingredients

3.1./3.2. Substances/Mixtures

Substance	EU-Index no. / REACH-Reg. no.	CAS-no.	EINECS-no.	CLP-classification	Wt/Wt %	Note
m-phenylenebis(methylamine)	- / 01-2119480150-50-xxxx	1477-55-0	216-032-5	Acute Tox. 4;H302, Skin Corr. 1B;H314, Skin Sens. 1;H317, Eye Dam. 1;H318, Acute Tox. 4;H332, Aquatic Chronic 3;H412, EUH 071	10-30	-
Benzylalkohol	603-057-00-5 / 01-2119492630-38-xxxx	100-51-6	202-859-9	Acute Tox. 4;H302 (ATE = 1200 mg/kg bw), Acute Tox. 4;H332	10-30	-
Trimethylhexan-1,6-diamin	- / -	25513-64-8	247-063-2	Acute Tox. 4;H302, Skin Corr. 1A;H314, Skin Sens. 1A;H317, Eye Dam. 1;H318	<10	-
2,2-Bis(4'-glycidyloxyphenyl)propane	603-073-00-2 / -	1675-54-3	216-823-5	Skin Irrit. 2;H315, Skins Sens. 1;H317, Eye Irrit. 2;H319, Aquatic Chronic 2;H411	<10	-
Oxirane,[[4-(1,1-dimethylethyl)phenoxy]methyl]-	- / -	3101-60-8	221-453-2	Skin Sens. 1;H317, Aquatic Chronic 2;H411	<10	-

See full text of H-phrases in section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:
Seek fresh air.
Keep victim under observation.
Seek medical advice in case of breathing difficulties.

Ingestion:
Wash out mouth thoroughly and drink 1-2 glasses of water in small sips.
Do not induce vomiting.
Seek medical advice in case of discomfort.

Skin contact:
Immediately remove contaminated clothing.
Wash skin with soap and water.
If skin irritation or rash occurs: Get medical advice/attention.

Eye contact:
Open eye wide, remove any contact lenses and flush immediately with water (preferably using eye wash equipment). Seek medical advice

Additional information:
When obtaining medical advice, show the safety data sheet or label.

4.2. Most important symptoms and effects, both acute and delayed
Harmful if swallowed.
Tissue damaging effects: This product contains substances which are corrosive. If vapour or aerosols are in haled, it can result in damage to lungs,
Sensitivity effects: This product contains substances which can give an allergic reaction on contact with skin. The allergic reaction will typically set in

4.3. Indication of any immediate medical attention and special treatment needed
Show this safety data sheet to the doctor in attendance.

SECTION 5: Firefighting measures

5.1. Extinguishing media
Extinguish with powder, foam, carbon dioxide or water mist.
Do not use water stream, as it may spread the fire.

5.2. Special hazards arising from the substance or mixture
Avoid inhalation of vapour and fumes – seek fresh air.
Hazardous fumes are formed in fire conditions.

5.3. Advice for firefighters
If there is a risk of exposure to vapour and flue gases, a self-contained breathing apparatus must be worn.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
See section 8 for type of protective equipment.
Avoid breathing and contact with skin and eyes.

6.2. Environmental precautions
Notify proper authorities in case of contamination of soil or aquatic environment or discharge to drains.
Prevent spillage from entering drains and/or surface water.

6.3. Methods and material for containment and cleaning up
Contain and absorb spill with sand or other absorbent material and transfer to suitable waste containers.
Caution! Causes burns.

6.4. Reference to other sections
See section 8 for type of protective equipment.
See section 13 for instructions on disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
See section 8 for information about precautions for use and personal protective equipment.
Use the product under well-ventilated conditions.
Running water and eye wash equipment must be available.

7.2. Conditions for safe storage, including any incompatibilities
The product should be stored safely, out of reach of children and away from food, animal feeding stuffs, medicines, etc.
Keep in tightly closed original packaging.

7.3. Specific end use(s)
See application section 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
Indicative occupational exposure limit value (IOELV)
-

DNEL/PNEC-values:
DNEL m-phenylenebis(methylamine)

	Workers	Consumers
Inhalation - Chronic Systemic	1,2 mg/m³	-
Inhalation - Chronic Local	0,2 mg/m³	-
Dermal - Chronic Systemic	0,33 mg/kg bw/day	-

DNEL Benzylalkohol

	Workers	Consumers
Inhalation - Chronic Systemic	22 mg/m³	5,4 mg/m³
Inhalation - Acute Systemic	110 mg/m³	27 mg/m³
Dermal - Chronic Systemic	8 mg/kg bw/day	4 mg/kg bw/day
Dermal - Acute Systemic	40 mg/kg bw/day	20 mg/kg bw/day
Oral - Chronic Systemic	-	4 mg/kg bw/day
Oral - Acute Systemic	-	4 mg/kg bw/day

DNEL Trimethylhexan-1,6-diamin

	Workers	Consumers
Oral - Chronic Systemic	-	0,05 mg/kg bw/day
Oral - Acute Systemic	-	0,05 mg/kg bw/day

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DNEL 2,2-Bis(4'-glycidyloxyphenyl)propane

	Workers	Consumers
Inhalation - Chronic Systemic	4,93 mg/m³	0,87 mg/m³
Dermal - Chronic Systemic	0,75 mg/kg bw/day	89,3 µg/kg bw/day
Oral - Chronic Systemic	-	0,5 mg/kg bw/day
Oral - Acute Systemic	-	0,5 mg/kg bw/day

DNEL Oxirane,[[4-(1,1-dimethylethyl)phenoxy]methyl]-

	Workers	Consumers
Inhalation - Chronic Systemic	3,5 mg/m³	1,75 mg/m³
Inhalation - Acute Systemic	3,5 mg/m³	-
Inhalation - Chronic Local	3,5 mg/m³	1,75 mg/m³
Inhalation - Acute Local	3,5 mg/m³	-
Dermal - Chronic Systemic	1 mg/kg bw/day	0,5 mg/kg bw/day
Dermal - Acute Systemic	1 mg/kg bw/day	0,5 mg/kg bw/day
Dermal - Chronic Local	1,6 µg/cm²	0,95 µg/cm²
Dermal - Acute Local	1,6 µg/cm²	0,95 µg/cm²

PNEC m-phenylenebis(methylamine)

Fresh water	0,094 mg/L
Intermittent releases (Fresh water)	0,152 mg/L
Marine water	0,009 mg/L
Soil	2,44 mg/kg soil dw

PNEC Benzylalkohol

Fresh water	1 mg/L
Intermittent releases (Fresh water)	2,3 mg/L
Marine water	0,1 mg/L
Soil	0,456 mg/kg soil dw

PNEC Trimethylhexan-1,6-diamin

Fresh water	0,102 mg/L
Intermittent releases (Fresh water)	0,315 mg/L
Marine water	0,01 mg/L
Soil	10 mg/kg soil dw

PNEC 2,2-Bis(4'-glycidyloxyphenyl)propane

Fresh water	0,006 mg/L
Intermittent releases (Fresh water)	0,018 mg/L
Marine water	0,001 mg/L
Intermittent releases (Marine water)	0,002 mg/L
Soil	0,065 mg/kg soil dw

PNEC Oxirane,[[4-(1,1-dimethylethyl)phenoxy]methyl]-

Fresh water	7,5 µg/L
Intermittent releases (Fresh water)	75 µg/L
Marine water	0,75 µg/L
Soil	11,4 mg/kg soil dw

8.2. Exposure controls

There are no exposure scenarios for this product.

Appropriate engineering controls:

Wear the personal protective equipment specified below.
Wash hands before breaks, before using restroom facilities, and at the end of work.
Do not eat, drink or smoke when using this product.

Personal protective equipment:

Respiratory protection:

Generally not required.
In case of insufficient ventilation, wear respiratory protective equipment with filter A2.
Respiratory protective equipment shall comply with one of the following standards: EN 136/140/145.

Hand protection:
Wear protective gloves made of nitrile rubber (> 0,11 mm). Protective gloves conforming to EN 374.
Penetration time: > 480 min.
Change gloves immediately if contaminated, and wash hands with soap and water.

Eye/face protection:
Wear safety goggles/face protection.
Eye protection conforming to EN 166.

Skin protection:
Special work clothing should be used.

Environmental exposure controls:
Ensure compliance with local regulations for emissions.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	-
Odour:	-
Melting point/ Freezing Point (°C):	-
Boiling point or initial boiling point and boiling range (°C):	-
Flammability:	-
Lower and upper explosion limit (vol-%):	-
Flash point (°C):	-
Auto-ignition temperature (°C):	-
Decomposition temperature (°C):	-
pH:	-
Kinematic viscosity (mm2/s):	-
Solubility:	-
Partition coefficient n-octanol/water (log value)	-
Vapour pressure:	-
Density and/or relative density:	-
Relative vapour density:	-
Particle characteristics:	-

9.2. Other information

VOC (Volatile organic compounds):	Ca. 350 g/l

SECTION 10: Stability and reactivity

10.1. Reactivity
No data.

10.2. Chemical stability
The product is stable when used in accordance with the supplier’s directions.

10.3. Possibility of hazardous reactions
None known.

10.4. Conditions to avoid
None known.

10.5. Incompatible materials
None known.

10.6. Hazardous decomposition products
No special precautions regarding contact with other materials at the recommended storage conditions.

SECTION 11: Toxicological information

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

Acute toxicity:
Harmful if swallowed.

Substance	exposure	Species	Test	Result
m-phenylenebis(methylamine)	Oral	Rat	LD50	< 2000 mg/kg bw
m-phenylenebis(methylamine)	Inhalation	Rat	LC50/ 4 Hours	1,16 mg/L air (analytical)
m-phenylenebis(methylamine)	Dermal	Rat	LD50	> 3100 mg/kg bw
Benzylalkohol	Oral	Rat	LD50	1580 mg/kg bw
Benzylalkohol	Inhalation	Rat	LC50/ 4 Hours	> 4178 mg/m³ air
Trimethylhexan-1,6-diamin	Oral	Rat	LD50	910 mg/kg/bw
2,2-Bis(4'-glycidyloxyphenyl)propane	Oral	Rat	LD50	> 2000 mg/kg bw
2,2-Bis(4'-glycidyloxyphenyl)propane	Dermal	Rat	LD50	> 2000 mg/kg bw
Oxirane,[[4-(1,1-dimethylethyl)phenoxy]methyl]-	Oral	Rat	LD50	> 2000 mg/kg bw
Oxirane,[[4-(1,1-dimethylethyl)phenoxy]methyl]-	Dermal	Rat	LD50	> 2000 mg/kg bw

Skin corrosion/irritation:
Has a corrosive effect and causes burning pain, reddening, blisters and burns.
May cause burns to mouth, gullet and stomach. Pains in mouth, throat and stomach. Difficulty in swallowing, indisposition and bloody vomit. Brown spots and burns may appear in and around the mouth.

Serious eye damage/irritation:
May cause severe burns, pain, tearing and cramp of the eyelids. Risk of serious damage to eyes and loss of vision.

Respiratory or skin sensitisation:
May cause sensitization by skin contact. Symptoms include reddening, swelling, blistering and ulceration – often slowly developing.

Germ cell mutagenicity:
Based on the existing data, the classification is not met.

Carcinogenicity:
Based on the existing data, the classification is not met.

Reproductive toxicity:
Based on the existing data, the classification is not met.

STOT-single exposure:
Based on the existing data, the classification is not met.

STOT-repeated exposure:
Based on the existing data, the classification is not met.

Aspiration hazard:
Based on the existing data, the classification is not met.

11.2. Information on other hazards
The product contains substance(s), which have endocrine disrupting properties.

SECTION 12: Ecological information

12.1. Toxicity

Substance	Test duration	Species	Test	Result
m-phenylenebis(methylamine)	96 Hours	Fish	LC50	87,6 mg/L
m-phenylenebis(methylamine)	48 Hours	Daphnia	EC50	15,2 mg/L
m-phenylenebis(methylamine)	72 Hours	Algae	EC50	20,3 - 33,3 mg/L
Benzylalkohol	96 Hours	Fish	LC50	460 mg/L
Benzylalkohol	48 Hours	Daphnia	EC50	230 mg/L
Benzylalkohol	72 Hours	Algae	EC50	770 mg/L
Trimethylhexan-1,6-diamin	48 Hours	Fish	LC50	174 mg/L
Trimethylhexan-1,6-diamin	24 Hours	Daphnia	EC50	31,5 mg/L
Trimethylhexan-1,6-diamin	72 Hours	Algae	EC50	43,5 mg/L
2,2-Bis(4'-glycidyloxyphenyl)propane	96 Hours	Fish	LC50	1,5 mg/L
2,2-Bis(4'-glycidyloxyphenyl)propane	48 Hours	Daphnia	LC50	1,1 mg/L
2,2-Bis(4'-glycidyloxyphenyl)propane	72 Hours	Algae	EC50	9,4 mg/L
Oxirane,[[4-(1,1-dimethylethyl)phenoxy]methyl]-	96 Hours	Fish	LC50	ca. 7,5 mg/L
Oxirane,[[4-(1,1-dimethylethyl)phenoxy]methyl]-	48 Hours	Daphnia	LC50	ca. 67,9 mg/L
Oxirane,[[4-(1,1-dimethylethyl)phenoxy]methyl]-	72 Hours	Algae	EC50	ca. 9 mg/L

12.2. Persistence and degradability

Substance	Biodegradability	Test	Result
m-phenylenebis(methylamine)	No	OECD Guideline 301 B	28 Days 49%
Benzylalkohol	Yes	OECD Guideline 301 C	14 Days 92-96%
Trimethylhexan-1,6-diamin	No	EU Method C.4-A	28 Days 7%
2,2-Bis(4'-glycidyloxyphenyl)propane	No	OECD Guideline 301 F	28 Days 5%
Oxirane,[[4-(1,1-dimethylethyl)phenoxy]methyl]-	No	OECD Guideline 301 D	28 Days ca. 1,1%

12.3. Bioaccumulative potential

Substance	Potential bioaccumulation	LogPow
m-	No	0,18
Benzylalkohol	No	1,1
2,2-Bis(4'-	Yes	2,64 - 3,78
Oxirane,[[4-(1,1-	No	ca. 3,59

12.4. Mobility in soil

Test data are not available.

12.5. Results of PBT and vPvB assessment

The product does not meet the criteria for PBT or vPvB.

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12.6. Endocrine disrupting properties
The product contains substance(s), which are suspected to have endocrine disrupting properties.

12.7. Other adverse effects
Toxic to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

13.1. Waste treatment methods
The product is covered by the regulations on dangerous waste.
Collect spills and waste in closed, leak-proof containers for disposal at the local hazardous waste site.

EWC-Code	Description
20 01 27	Paint, inks, adhesives and resins containing hazardous substances

Specific labelling:
-

Contaminated packaging:
Empty packaging and residues must be disposed of through the municipal waste collection service for hazardous waste.

SECTION 14: Transport information

The product is covered by the rules for transport of dangerous goods.

14.1 -14.4.
ADR

14.1. UN number or ID number	14.2. UN proper shipping name	14.3. Transport hazard class(es)	14.4. Packing group
2735	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine), Trimethylhexane-1,6-diamine)	8	II

IMDG

14.1. UN number or ID number	14.2. UN proper shipping name	14.3. Transport hazard class(es)	14.4. Packing group
2735	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine), Trimethylhexane-1,6-diamine)	8	II

14.5. Environmental hazards
-

14.6. Special precautions for user
-

14.7. Maritime transport in bulk according to IMO instruments
Not relevant.

SECTION 15: Regulatory information

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

Sources:
Commission Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, EU 2017/164 and EU 2019/1831 (the first, second, third, fourth and fifth IOELV Directives).
Directive 2004/37/EC with amendments

Additional labelling:
-

Restrictions for application:
Special care should be applied for employees under the age of 18. Young people under the age of 18 may not carry out any work causing harmful exposure to this product. Young people above 15 years are exempted this rule, if the product is a part of an education/training.

Demands for specific education:
-

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15.2. Chemical safety assessment
None.

SECTION 16: Other information

According to EU regulation 1907/2006 (REACH)

Other information:
Sources:
EC regulation 1907/2006 (REACH), with amendments.
EC Regulation 1272/2008 (CLP), with amendments.
Directive 2008/98/EC
ECHA - The European Chemicals Agency

Full text of H-phrases as mentioned in section 2+3:

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H312	Harmful 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.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH 071	Corrosive to the respiratory tract.

Classification according to Regulation (EC) Nr. 1272/2008:

Acute Tox. 4;H302	Calculation method
Skin Corr. 1A;H314	Calculation method
Skin Sens. 1A;H317	Calculation method
Aquatic Chronic 3;H412	Calculation method

Abbreviations and acronyms used in the safety data sheet:
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals. Regulation (EC) No 1907/2006.
CLP: Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008.
CAS-Number.: Chemical Abstracts Service number.
EC-Number.: EINECS and ELINCS Number (see also EINECS and ELINCS).
DNEL: Derived No Effect Level.
PNEC(s): Predicted No Effect Concentration(s).
STOT: Specific Target Organ Toxicity.
LD50: Lethal Dose to 50% of a test population (Median Lethal Dose).
LC50: Lethal Concentration to 50 % of a test population.
EC50: The effective concentration of substance that causes 50% of the maximum response.
PBT: Persistent, Bioaccumulative and Toxic.
vPvB: Very Persistent and Very Bioaccumulative.
NOEC: The highest tested concentration at which, in a study, no statistically significant effect is observed in the exposed population compared with an appropriate control group.
NOAEL: The highest tested dose or exposure level at which there are no statistically significant increases in the frequency or severity of adverse effects between the exposed population and an appropriate control group; some effects may be produced at this level, but they are not considered adverse or precursors of adverse effects.

Other:
The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

Minor changes have been made in following sections:
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This material safety data sheet replaces version:
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