Material Safety Data Sheet

Completed	**30-01-2023**
Revision: (date)	**10-01-2024**
SDS version	**1.4**

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

1.1. Product Identifier

Trade Name:	EPW Maling A
Product- no.:	6171-
UFI:	5AQA-3VY7-X206-86RT

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

Recommended uses:

Chemical.

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

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 - See section 4 “First aid measures”.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

CLP (1272/2008):
Skin Irrit. 2;H315
Skin Sens. 1;H317
Eye Irrit. 2;H319

See full text of H-phrases in section 16.

2.2. Label elements

Signal word:

Warning

Causes skin irritation. (H315)
May cause an allergic skin reaction. (H317)
Causes serious eye irritation. (H319)
Contains epoxy constituents. May produce an allergic reaction. (EUH 205)

Wear protective gloves/protective clothing/eyeprotection/face protection. (P280)
If skin irritation or rash occurs: Get medical advice/attention. (P333 + P313)
If eye irritation persists: Get medical advice/attention. (P337 + P313)

2.3. Other hazards

The product contains organic solvents. Repeated exposure to organic solvents may cause damage to the central nervous system and internal organs fx. liver and kidney.

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
Bisphenol (Epoxy Resin)	- / -	25036-25-3	682-390-8	Skin Irrit. 2;H315, Skin Sens. 1;H317, Eye Irrit. 2;H319	20-40	3
1-methoxy-2-propanol	603-064-00-3 / 01-2119457435-35-xxxx	107-98-2	203-539-1	Flam. Liq. 3;H226, STOT SE 3;H336	<2,5	2
Barium sulphate	- / -	7727-43-7	231-784-4	-	0-30	1
Acrylic acid	607-061-00-8 / -	79-10-7	201-177-9	Flam. Liq. 3;H226, Acute Tox. 4;H302, Acute Tox. 4;H312, Skin Corr. 1A;H314, Acute Tox. 4;H332, Aquatic Acute 1;H400, M=1	<0,01	-
Bronopol	603-085-00-8 / -	52-51-7	200-143-0	Acute Tox. 4;H302, H312, Skin Irrit. 2;H315, Eye Dam. 1;H318, STOT SE 3;H335, Aquatic Acute 1;H400, M=10	<0,1	-
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	613-167-00-5 / -	55965-84-9	611-341-5	Acute Tox. 3;H301, Acute Tox. 2;H310, Skin Corr. 1C;H314, Skin Sens. 1A;H317, Eye Dam. 1;H318, Acute Tox. 2;H330, Aquatic Acute 1;H400, M=100, Aquatic Chronic 1;H410, M=100, EUH 071 SCL: Eye Dam. 1; H318: C ≥ 0,6 % Eye Irrit. 2; H319: 0,06 % ≤ C < 0,6 % Skin Corr. 1C; H314: C ≥ 0,6 % Skin Irrit. 2; H315: 0,06 % ≤ C < 0,6 % Skin Sens. 1A; H317: C ≥ 0,0015 %	<0,0015	-

1) The substance is included in the EU list of limit values for occupational exposure.
2) The substance is an organic solvent.
3) The substance is an epoxy resin.

See full text of H-phrases in section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures
Inhalation:
In case of discomfort: Seek fresh air.
Seek medical advice in case of persistent discomfort.

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

Eye contact:
Flush with water (preferably using eye wash equipment) until irritation subsides. Seek medical advice if symptoms persist.

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

4.2. Most important symptoms and effects, both acute and delayed
Irritation effects: This product contains substances which cause irritation to skin and eyes, or when inhaled. Contact with locally irritative substances can cause the area of contact to be more prone to absorb damaging substances such as allergens.
Sensitivity effects: This product contains substances which can give an allergic reaction on contact with skin. The allergic reaction will typically set in 12-72 hours after exposure as the substance penetrates the skin and reacts with proteins in the outer skin. The body's immune system sees the chemically changed protein as a foreign body and will try to destroy it.

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.
Fire will produce dense black smoke.

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
Do not discharge large quantities of concentrated spills and residue into drains.

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.

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.
Individuals suffering from asthma or eczema and individuals with known, chronic lung disease or excessively sweaty palms (hyperhidrosis manuum) should not work with the product.

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
Occupational exposure limits:

Substance	**Long-term exposure limit ppm / mg/m^3**	**Short-term exposure limit ppm / mg/m^3**	**Note**
1-methoxy-2-propanol	100 / 375	150 / 560	Sk
Barium sulphate	- / 10	- / -	-

Sk = Can be absorbed through the skin.

DNEL/PNEC-values:
DNEL 1-methoxy-2-propanol

	Workers	Consumers
Inhalation - Chronic Systemic	369 mg/m³	43.9 mg/m³
Inhalation - Acute Systemic	553.5 mg/m³	-
Inhalation - Chronic Local	553,5 mg/m³	-
Inhalation - Acute Local	553,5 mg/m³	-
Dermal - Chronic Systemic	183 mg/kg bw/day	78 mg/kg bw/day
Oral - Chronic Systemic	-	33 mg/kg bw/day
Oral - Acute Systemic	-	33 mg/kg bw/day

DNEL Barium sulphate

	Workers	Consumers
Inhalation - Chronic Systemic	10 mg/m³	10 mg/m³
Inhalation - Chronic Local	10 mg/m³	-
Oral - Chronic Systemic	-	13000 mg/kg bw/day
Oral - Acute Systemic	-	13000 mg/kg bw/day

DNEL Acrylic acid

	Workers	Consumers
Inhalation - Chronic Systemic	30 mg/m³	3.6 mg/m³
Inhalation - Acute Systemic	30 mg/m³	3.6 mg/m³
Inhalation - Chronic Local	30 mg/m³	3.6 mg/m³
Inhalation - Acute Local	30 mg/m³	3.6 mg/m³
Oral - Chronic Systemic	-	0.4 mg/kg bw/day
Oral - Acute Systemic	-	0.4 mg/kg bw/day

DNEL Bronopol

	Workers	Consumers
Inhalation - Chronic Systemic	3.5 mg/m³	0.6 mg/m³
Inhalation - Acute Systemic	10.5 mg/m³	1.8 mg/m³
Inhalation - Chronic Local	2.5 mg/m³	0.6 mg/m³
Inhalation - Acute Local	2.5 mg/m³	0.6 mg/m³
Dermal - Chronic Systemic	2 mg/kg bw/day	0.7 mg/kg bw/day
Dermal - Acute Systemic	6 mg/kg bw/day	2.1 mg/kg bw/day
Dermal - Chronic Local	8 µg/cm²	4 µg/cm²
Dermal - Acute Local	8 µg/cm²	4 µg/cm²
Oral - Chronic Systemic	-	0.18 mg/kg bw/day
Oral - Acute Systemic	-	0.18 mg/kg bw/day

PNEC 1-methoxy-2-propanol

Fresh water	10 mg/L
Intermittent releases (Fresh water)	100 mg/L
Marine water	1 mg/L
Soil	4.59 mg/kg soil dw

PNEC Barium sulphate

Fresh water	115 µg/L
Soil	207.7 mg/kg soil dw

PNEC Acrylic acid

Fresh water	0.003 mg/L
Intermittent releases (Fresh water)	0.001 mg/L
Marine water	0.3 µg/L
Soil	1 mg/kg soil dw

PNEC Bronopol

Fresh water	0.001 mg/L
Marine water	0.001 mg/L
Soil	0.21 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/P2
Respiratory protective equipment shall comply with one of the following standards: EN 136/140/145.

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

Eye/face protection:
Wear safety goggles if there is a risk of eye splash.
Eye protection conforming to EN 166.

Skin protection:
Wear suitable protective clothing.

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:	1,35
Relative vapour density:	-
Particle characteristics:	-

9.2. Other information

VOC (Volatile organic compounds):	< 40 g/l
Viscosity:	500-1500 cP

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

Substance	exposure	Species	Test	Result
1-methoxy-2-propanol	Oral	Rat	LD50	3739 mg/kg bw
1-methoxy-2-propanol	Inhalation	Rat	LC50/ 6 Hours	> 6000 - 7000 ppm
1-methoxy-2-propanol	Dermal	Rabbit	LD50	> 2000 mg/kg bw
Barium sulphate	Oral	Rat	LD50	> 5000 mg/kg bw
Acrylic acid	Oral	Rat	LD50	1000 - < 2000 mg/kg bw
Acrylic acid	Inhalation	Rat	LC50/ 4 Hours	> 5,1 mg/L air
Acrylic acid	Dermal	Rat	LD50	> 2000 mg/kg bw
Bronopol	Oral	Rat	LD50	211 mg/kg
Bronopol	Inhalation	Rat	LC50/ 4 Hours	>= 0,588 mg/L air
Bronopol	Dermal	Rat	LD50	> 2000 mg/kg bw

Skin corrosion/irritation:
Irritating to skin – may cause reddening.
Can be absorbed through the skin causing symptoms such as dizziness and headache.

Serious eye damage/irritation:
Irritating to eyes. Causes a burning sensation and tearing.

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:
The product releases organic solvent vapours which may cause lethargy and dizziness. At high concentrations, the vapours may cause headache and intoxication.

STOT-repeated exposure:
Prolonged or repeated exposure by skin contact or inhalation of vapours may cause damage to the central nervous system.

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

11.2. Information on other hazards
Test data are not available.

SECTION 12: Ecological information

12.1. Toxicity

Substance	Test duration	Species	Test	Result
1-methoxy-2-propanol	96 Hours	Fish	LC50	6812 mg/L
1-methoxy-2-propanol	48 Hours	Daphnia	LC50	21100 - 25900 mg/L
1-methoxy-2-propanol	168 Hours	Algae	EC50	> 1000 mg/L
Barium sulphate	96 Hours	Fish	LC50	> 3,5 mg/L
Barium sulphate	48 Hours	Daphnia	EC50	> 58,5 mg/L
Barium sulphate	72 Hours	Algae	EC50	> 100 mg/L
Acrylic acid	96 Hours	Fish	LC50	27 mg/L
Acrylic acid	48 Hours	Daphnia	EC50	95 mg/L
Acrylic acid	72 Hours	Algae	EC50	0,04 mg/L
Bronopol	96 Hours	Fish	LC50	11 mg/L
Bronopol	48 Hours	Daphnia	EC50	1,4 mg/L
Bronopol	72 Hours	Algae	EC50	0,026 mg/L

12.2. Persistence and degradability

Substance	Biodegradability	Test	Result
1-methoxy-2-propanol	Yes	OECD Guideline 301 E	28 Days 96%
Acrylic acid	No	OECD Guideline 301 C	14 Days 68%
Bronopol	No	OECD Guideline 301 B	28 Days 20%

12.3. Bioaccumulative potential

Substance	Potential bioaccumulation	LogPow
1-methoxy-2-propanol	No	0.37
Acrylic acid	No	0,46
Bronopol	No	0,15

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.

12.6. Endocrine disrupting properties
Test data are not available.

12.7. Other adverse effects
None.

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
08 01 11	Waste paint and varnish containing organic solvents or other hazardous substances

Specific labelling:
Epoxy waste. Be careful! Risk of eczema!

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 not covered by the rules for transport of dangerous goods by road and sea according to ADR, IMDG and IATA.

14.1 -14.4.
ADR
-
IMDG/IATA
-

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:
-

Additional labelling:

Maximum content of VOC: <40 g/l, VOC limit values (A/j (WB)) 140 g/l

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.
Special care should be applied for pregnant and lactating women.

Demands for specific education:
Persons with eczema or diagnosed epoxyallergy must not work with the product.Persons with severely sweaty hands (hyperhidrosis manuum) must not work with the product.

15.2. Chemical safety assessment
None.

SECTION 16: Other information

Other information:
Sources:
REACH etc.

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

H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H310	Fatal in contact with skin.
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.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
EUH 071	Corrosive to the respiratory tract.
EUH 205	Contains epoxy constituents. May produce an allergic reaction.

Material Safety Data Sheet

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

Skin Irrit. 2;H315	Calculation method
Skin Sens. 1;H317	Calculation method
Eye Irrit. 2;H319	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:

General update.

This material safety data sheet replaces version:

1.3