

Material Safety Data Sheet

SDS date: 05-05-2017

SDS version: 1.0

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

1.1. Product Identifier

Trade Name: EP - D80 - A-komp

Product- no.: -

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

Recommended uses: Paint. After mixture with a-komp, both MSDS should be used.

1.3. Details of the supplier of the safety data sheet

Manufacturer

Promal A/S
Joachim Wellersvej 27-29
7500 Holstebro
Tlf.: +45 96 10 50 80
www.promal.dk

Supplier:

DMS A/S
T: +45 7023 4343
F: +45 7023 4342
dms@dms-as.com
www.dms-as.com

Contact person and E-mail:

Erling Kristensen, info@promal.dk

The Safety data sheet is completed and validated by:

mediator A/S, Centervej 2, DK-6000 Kolding. Consultant: LW

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): Eye Irrit. 2, Skin Irrit. 2, Skin Sens. 1, Aquatic Chronic 2; H319, H315, H317, H411, EUH205
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)

Toxic to aquatic life with long lasting effects. (H411)

Contains epoxy constituents. May produce an allergic reaction . (EUH205)

If medical advice is needed, have product container or label at hand. (P101)

Keep out of reach of children. (P102)

Avoid release to the environment. (P273)

Wear protective gloves /eye protection/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)

Dispose of contents/container in accordance with local regulation. (P501)

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.	Cas / EINECS no.	CLP-classification	w/w%	Note
Reaktionsprodukt: bisphenol-A-diglycidylether (molekylvægt ≤ 700)	603-074-00-8	25068-38-6/ 500-033-5	Eye Irrit. 2, Skin Irrit. 2, Skin Sens. 1, Aquatic Chronic 2; H319, H315, H317, H411	20-50	E
Epoxy Resin	-	28064-14-4/ -	Eye Irrit. 2, Skin Irrit. 2, Skin Sens. 1, Aquatic Chronic 2; H319, H315, H317, H411	5-15	E
Oxiran, mono[(C12-14-alkyloxy)methyl]derivater; (C12C14) alkylglycidylether	603-103-00-4	68609-97-2/ 271-846-8	Skin Irrit. 2, Skin Sens. 1; H315, H317	1-10	E
Butandiolglycidol ether	603-072-00-7	2425-79-8/ 219-371-7	Acute Tox. 4; H312, H332, Skin Irrit. 2; H315, Skin Sens. 1; H317, Eye Irrit. 2; H319	1-5	E
Benzylalkohol	603-057-00-5	100-51-6/ 202-859-9	Acute Tox. 4; H302, H332	1-5	-

E = 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:	Seek fresh air. Keep victim under observation. Seek medical advice in case of discomfort.
Ingestion:	Wash out mouth thoroughly and drink 1-2 glasses of water in small sips. Seek medical advice immediately.
Skin contact:	Immediately remove contaminated clothing. Wash skin thoroughly with soap and water. If skin irritation or rash occurs: Get medical advice/attention.
Eye contact:	Flush immediately with water (preferably using eye wash equipment) for at least 5 minutes. Open eye wide. Remove any contact lenses. Seek medical advice.
Additional information:	When obtaining medical advice, show the safety data sheet or label. Symptoms: See section 11.

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

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.

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.

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

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

SECTION 5: Firefighting measures

5.1. Extinguishing media

Surrounding fire: Extinguish with powder, foam or carbon dioxide. Do not use water stream, as it may spread the fire.

5.2. Special hazards arising from the substance or mixture

The product is not directly flammable. Avoid inhalation of vapour and fumes – seek fresh air. Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

5.3. Advice for firefighters

Send contaminated extinguishing water for destruction. 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

Prevent spillage from entering drains and/or surface water. Notify proper authorities in case of contamination of soil or aquatic environment or discharge to 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. Rinse with water. See section 13 for instructions on disposal.

6.4. Reference to other sections

See above.

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 should be available.

7.2. Conditions for safe storage, including any incompatibilities

Keep in tightly closed original packaging. Store in a cool, dry place.

7.3. Specific end use(s)

See section 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits according to EH40/2005 Workplace exposure limits (Second edition, 2011):

Substance	Long-term exposure limit	Short-term exposure limit	Note
Bisphenol-A - inhalable dust	10 mg/m ³	-	-

DNEL and PNEC values:

DNEL – Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin:

Dermal	Short term	Systemic effects Workers	8.33 mg/kg bw/day
Inhalation	Short term	Systemic effects Workers	12.25 mg/m ³
Dermal	Long Term	Systemic effects Workers	8.33 mg/kg bw/day
Inhalation	Long Term	Systemic effects Workers	12.25 mg/m ³

According to EU regulation 1907/2006 (REACH)

Oral	Short term	Systemic effects	General population	0.75 mg/kg bw/day
Dermal	Short term	Systemic effects	General population	3.571 mg/kg bw/day
Oral	Long Term	Systemic effects	General population	0.75 mg/kg bw/day
Dermal	Long Term	Systemic effects	General population	3.571 mg/kg bw/day

DNEL – Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.:

Dermal	Long Term	Systemic effects	Workers	1 mg/kg bw/day
Inhalation	Long Term	Systemic effects	Workers	3.6 mg/m ³
Oral	Long Term	Systemic effects	General population	500 µg/kg bw/day
Dermal	Long Term	Systemic effects	General population	500 µg/kg bw/day
Inhalation	Long Term	Systemic effects	General population	870 µg/m ³

PNEC – Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin:

Water	Fresh	0.006 mg/L
Water	Marine	0.0006 mg/L
Water	Intermittent releases	0.018 mg/L
Soil	-	0.196 mg/kg soil dw

DNEL – Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.:

Water	Fresh	7.2 µg/L
Water	Marine	720 ng/L
Water	Intermittent releases	72 µg/L
Soil	-	61.42 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 the work. Do not eat, drink or smoke when using this product.

Personal protective equipment:



Breathing equipment:	Not required.
Hand protection:	Wear protective gloves made of nitrile rubber.
Eye protection:	Wear safety goggles/face protection.
Body and 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

Appearance:	Liquid
Odour:	Mild
Odour threshold:	-
pH:	-
Melting point/ Freezing Point (°C):	-
Initial boiling point and boiling range (°C):	-
Flash point (°C):	-
Evaporation rate (n-BuAc=1):	-
Flammability (solid, gas)	-

Upper / lower flammability or explosion limits (vol-%):	-
Vapour pressure (mbar):	-
Vapour density (air=1)	-
Relative density:	-
Solubility(ies)	-
Partition coefficient: n-octanol/water:	-
Auto-ignition temperature (°C):	-
Decomposition temperature (°C):	-
Viscosity (mm ² /sek):	-
Explosive properties:	-
Oxidising properties:	-

9.2. Other information

Content of solids (%):	-
Curing time:	

SECTION 10: Stability and reactivity

10.1. Reactivity

Non-reactive.

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

Avoid contact with strong acids, strong oxidising agents and epoxy activators.

10.6. Hazardous decomposition products

Product decomposes in fire conditions or when heated to high temperatures, and toxic gases such as CO_x and aldehydes may be released.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Substance	Route of exposure	Species	Test	Result
Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin	Oral	Rat	LD50	>2000 mg/kg
Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin	Dermal	Rat	LD50	>2000 mg/kg
Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	Oral	Rat	LD50	30.1 mL/kg bw
Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	Inhalation	Rat	LC0 / 7 h	150 mg/m ³ air

Symptoms:

Inhalation: Inhalation of vapours may cause irritation to the upper airways.

Ingestion: Ingestion may cause discomfort.

Skin contact: Irritating to skin – may cause reddening. May cause an allergic skin reaction.

Eye contact: Irritating to eyes. Causes a burning sensation and tearing.

Long term effects:

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

SECTION 12: Ecological information

12.1. Toxicity

Substance	Test duration	Species	Test	Result
Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin	96 h	Fish	LC50	1.2 mg/L
Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin	48 h	Daphnia	EC50	2.8 mg/L
Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin	72 h	Algae	EC50	9.4 mg/L

12.2. Persistence and degradability

Substance	Biodegradability	Test	Result
Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin	Yes	OECD Guideline 301 F	82% after 28 days
Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	Yes	OECD Guideline 301 F	87% after 28 days

12.3. Bioaccumulative potential

Substance	Potential bioaccumulation	LogPow	BCF
Reaction product: bisphenol-A-(epichlorhydrin) epoxy	Yes	≥ 2.918	-
Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	Yes	3.77	-

12.4. Mobility in soil

-

12.5. Results of PBT and vPvB assessment

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

12.6. Other adverse effects

Toxic to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Contact the local authorities.

EWC Code

08 04 09

20 01 27

Specific labelling

-

Contaminated packaging:

Uncleansed packaging is to be disposed of via the local waste-removal scheme.

SECTION 14: Transport information

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

According to ADR 2015 substances/products covered by UN3077/UN3082 are not regarded as dangerous goods if carried in quantities of less than 5 kg (or 5 L) due to SP 375.

14.1 -14.4.

ADR

UN number	UN proper shipping name	Transport hazard class(es)	Packing group
3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol-A diglycidyl ether, Epoxy Resin)	9	III

IMDG

UN number	UN proper shipping name	Transport hazard class(es)	Packing group
3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol-A diglycidyl ether, Epoxy Resin)	9	III

14.5. Environmental hazards

If the quantity transported exceeds 5 kg or litre must be labelled with an environmental hazard.

14.6. Special precautions for user

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14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not relevant.

SECTION 15: Regulatory information

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

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.

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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Additional labelling:

-

15.2. Chemical safety assessment

Chemical safety assessment has not been performed.

SECTION 16: Other information

Other information:**Sources:**

EC regulation 1907/2006 (REACH).

Directive 2000/532/EC.

EC Regulation 1272/2008 (CLP).

EH40/2005 WELs (United Kingdom (UK), 8/2007).

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

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H319 - Causes serious eye irritation.

H411 - Toxic to aquatic life with long lasting effects.

EUH205 - Contains epoxy constituents. May produce an allergic reaction

Other

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Minor changes have been made in following sections:

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This material safety data sheet replaces version:

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