

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878

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Date of revision: 12.12.2023

Date of previous issue: 28.06.2023 Version number 3 (replaces version 2)

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

- · 1.1 Product identifier
- · Trade name: Epocoat Aqua Primer Comp. B
- · UFI: 7E8X-058R-310U-3SC2
- · 1.2 Relevant identified uses of the substance or mixture and uses advised against
- · Sector of Use Coating
- Application of the substance / the mixture

waterborne epoxy coating, Comp. B Uses in Coatings - Industrial use Uses in Coatings - Professional use

- 1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier:

Nor-Maali Oy

Vanhatie 20, 15240 Lahti, FINLAND

- · Further information obtainable from: MSDS (Nor-Maali Oy) tel.+358 3 874 650, sds@nor-maali.fi
- 1.4 Emergency telephone number: Contact National Poison Center

SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture

Product definition: mixture

· Classification according to Regulation (EC) No 1272/2008



GHS09 environment

Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.



Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation. STOT SE 3 H335 May cause respiratory irritation.

- · 2.2 Label elements
- Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the GB CLP regulation.

· Hazard pictograms





GHS07

GHS09

- Signal word Warning
- · Hazard-determining components of labelling:

Modified Epoxy Amine adduct

· Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

P273 Avoid release to the environment.

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

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P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P312 Call a POISON CENTER/doctor if you feel unwell.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

- · 2.3 Other hazards
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- vPvB: Not applicable.

Determination of endocrine-disrupting properties

95-14-7 benzotriazole

List II

SECTION 3: Composition/information on ingredients

- · 3.2 Mixtures
- · Description: Mixture of substances listed below with nonhazardous additions.

	Modified Epoxy Amine adduct	25 - 75%
	Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	-
CAS: 34590-94-8 EINECS: 252-104-2 Reg.nr.: 01-2119450011-60-	Dipropylene glycol monomethyl ether substance with a Community workplace exposure limit	2.5 - 10%
CAS: 95-14-7 EINECS: 202-394-1 Reg.nr.: 01-2119979079-20-	benzotriazole Acute Tox. 4, H302; Acute Tox. 4, H332; Eye Irrit. 2, H319; Aquatic Chronic 3, H412 ATE: LC50/4 h inhalative: 1.5 mg/l	< 0.3%
CAS: 7632-00-0 EINECS: 231-555-9 Reg.nr.: 01-2119471836-27-	sodium nitrite Ox. Sol. 3, H272; Acute Tox. 3, H301; Aquatic Acute 1, H400	< 0.3%

Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- · 4.1 Description of first aid measures
- · General information:

Never give anything by mouth or induce vomiting to an unconscious person or a person who has convulsions.

After inhalation:

Remove person to fresh air, keep patient warm and at rest. If breathing is irregular, call national emergency number, if needed start giving artificial respiration and seek medical advice.

After skin contact:

Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.

· After eye contact:

Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open.

After swallowing:

If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do not induce vomiting.

- · Information for doctor: Treatment according to symptoms.
- 4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

• 4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available.

GB



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SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- · Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- · 5.3 Advice for firefighters

Evacuate people from danger area and deny access to area. Remove containers from danger area and try to cool containers which cannot be removed safely. This material is toxic to aquatic life with long lasting effects. Fire water contamined with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Protective equipment: Compressed air respirator and protective clothing.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Not required.
- 6.2 Environmental precautions:

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

6.3 Methods and material for containment and cleaning up:

Absorb liquid components with liquid-binding material (sand, peat or other absorbent material).

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Handling must be organised so that skin contact with the product and splashes to eyes can be avoided.

- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles:

The product must be stored in a dry, well ventilated, cool (temperature > +10 °C) space. Must be transported and stored free from frost. Containers must be kept tightly closed and away from foodstuff.

- Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: Keep container tightly sealed.
- 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

34590-94-8 Dipropylene glycol monomethyl ether

HTP Long-term value: 310 mg/m³, 50 ppm Skin

·DNELs

34590-94-8 Dipropylene glycol monomethyl ether

Dermal DNEL 283 mg/kg bw/day (Workers - Long-term systemic effects)

Inhalative DNEL 308 mg/m3 (Workers - Long-term systemic effects)

95-14-7 benzotriazole

Dermal DNEL 240 µg/kg bw/day (Workers - Long-term systemic effects)

Inhalative DNEL 4.2 mg/m3 (Workers - Long-term systemic effects)

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7632-00-0 sodium nitrite	
Inhalative DNEL 2 mg/m3 (Workers - Long-term systemic effects)	
PNECs	
34590-94-8 Dipropylene glycol monomethyl ether	
PNEC 19 mg/L (Freshwater)	
1.9 mg/L (Marine water)	
4,168 mg/L (Sewage treatment)	
PNEC 70.2 mg/kg dwt (Fresh water sediment)	
7.02 mg/kg dwt (Marine water sediment)	
PNEC 2.74 mg/kg (Soil)	
95-14-7 benzotriazole	
PNEC 9.4 mg/L (Sewage treatment)	
PNEC 1.1 mg/kg dwt (Fresh water sediment)	
0.11 mg/kg dwt (Marine water sediment)	
PNEC 0.169 mg/kg (Soil)	
PNEC 97 μg/L (Freshwater)	
9.7 μg/L (Marine water)	
7632-00-0 sodium nitrite	
PNEC 0.0195 mg/kg dwt (Fresh water sediment)	
0.0223 mg/kg dwt (Marine water sediment)	
21 mg/kg dwt (Sewage treatment)	
PNEC 0.000733 mg/kg (Soil)	
PNEC 5.4 μg/L (Freshwater)	
6.16 μg/L (Marine water)	

Additional information:

The information is based on the valid lists at the time of manufacture (Finland 654/2020).

- · 8.2 Exposure controls
- · Appropriate engineering controls No further data; see section 7.
- · Individual protection measures, such as personal protective equipment
- General protective and hygienic measures:

Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapours below the HTP, suitable respiratory protection must be worn.

· Respiratory protection:

If ventilation is insufficient or if workers are exposed to concentrations above the exposure limit they must use half- or full mask with gas filter A (brown, organic substances), and when grinding P2 (IIb) -type dust filter. Mask with combined filter (gas & dust) A2-P2 must be used when spraying. In the continuous long-term work it is recommended to use motored air protector or separative protector (fresh air hood or compressed air hood or such).

Hand protection



Protective gloves

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

Wear suitable gloves tested to EN374.

May be used, gloves(breakthrough time) 4 - 8 hours: butyl rubber, nitrile rubber

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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· Eye/face protection



Tightly sealed goggles

The eye flushing device should be located near the the paint work area.

· Body protection: Protective work clothing

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

Physical stateColour:Odour:Mild

Odour threshold: Not determined.Melting point/freezing point: Undetermined.

 \cdot Boiling point or initial boiling point and boiling

range 100 °C (7732-18-5 water, distilled, conductivity or of similar purity)

• Flammability Not applicable.

· Lower and upper explosion limit

· **Lower**: 1 vol-% · **Upper**: 11 vol-%

• **Flash point**: 75 °C (34590-94-8 Dipropylene glycol monomethyl

ether)

• **Auto-ignition temperature:** 270 °C (34590-94-8 Dipropylene glycol monomethyl

ether)

 $\begin{array}{ll} \cdot \ \, \text{Decomposition temperature:} & \quad \text{Not determined.} \\ \cdot \ \, \text{pH} & \quad \text{Not determined.} \end{array}$

Viscosity:

Kinematic viscosity at 40 °C
 Dynamic:
 Not determined.

· Solubility

• water: Not miscible or difficult to mix.

· Partition coefficient n-octanol/water (log value) Not determined.

• Vapour pressure at 20 °C: 23 hPa (7732-18-5 water, distilled, conductivity or of

similar purity)

· Density and/or relative density

Density at 20 °C:
 Relative density
 Vapour density
 Not determined.
 Not determined.

9.2 Other information

· Appearance:

· Form: Fluid

Important information on protection of health and

environment, and on safety.

· **Ignition temperature:** Product is not selfigniting.

• Explosive properties: Product does not present an explosion hazard.

· Change in condition

Evaporation rate Not determined.

· Information with regard to physical hazard classes

Explosives Void
Flammable gases Void
Aerosols Void
Oxidising gases Void
Gases under pressure Void

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· Flammable liquids	Void	
Flammable solids	Void	
Self-reactive substances and mixtures	Void	
· Pyrophoric liquids	Void	
Pyrophoric solids	Void	
Self-heating substances and mixtures	Void	
Substances and mixtures, which emit flammable		
gases in contact with water	Void	
Oxidising liquids	Void	
Oxidising solids	Void	
Organic peroxides	Void	
· Corrosive to metals	Void	
Desensitised explosives	Void	

SECTION 10: Stability and reactivity

- 10.1 Reactivity No specific test data related to reactivity available for this product or its ingredients.
- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

- · 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity Based on available data, the classification criteria are not met.
- · LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)

Oral LD50 63,380 - 316,901 mg/kg (rat)

34590-94-8 Dipropylene glycol monomethyl ether

Oral LD50 5,000 mg/kg (rat)
Dermal LD50 9,510 mg/kg (rabbit)

95-14-7 benzotriazole

Oral LD50 500 mg/kg (rat)
Dermal LD50 > 2,000 mg/kg (rat)

7632-00-0 sodium nitrite

Oral LD50 180 mg/kg (rat)

Skin corrosion/irritation

Causes skin irritation.

· Serious eye damage/irritation

Causes serious eye irritation.

- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity Based on available data, the classification criteria are not met.
- STOT-single exposure

May cause respiratory irritation.

- STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.

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· 11.2 Information on other hazards

· Endocrine disrupting properties

95-14-7 benzotriazole

List II

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SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

34590-94-8 Dipropylene glycol monomethyl ether

72-h EC50 1,000 mg/L (Algae)

96-h LC50 1,000 mg/L (Daphnia magna)

1,000 - 10,000 mg/L (Fish)

95-14-7 benzotriazole

72-h EC50 75 mg/L (Algae)

48-h EC50 15.8 mg/L (Daphnia magna)

96-h LC50 180 mg/L (Fish)

7632-00-0 sodium nitrite

72-h EC50 100 mg/L (Algae)

48-h EC50 15.4 mg/L (Daphnia magna)

96-h LC50 0.54 - 26.3 mg/L (Fish)

· 12.2 Persistence and degradability

Biodegradation:

No further relevant information available.

- · 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- 12.6 Endocrine disrupting properties For information on endocrine disrupting properties see section 11.
- 12.7 Other adverse effects
- · Remark: Very toxic for fish

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- Recommendation

Do not allow to enter drains or watercourses. Material and/or container must be disposed of as hazardous waste.

European waste catalogue

08 01 15* aqueous sludges containing paint or varnish containing organic solvents or other hazardous substances

- · Uncleaned packaging:
- · Recommendation:

Empty, dry paint containers (hole made to the bottom) should be taken to collection centres for metallic paint packages. If this collecting/recycling centre doesn't exist, containers can be taken to a local dump pit. For more information contact your local waste disposal authorities or paint deliverer.

SECTION 14: Transport information

- · 14.1 UN number or ID number
- · ADR, IMDG, IATA

UN3082

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(Contd. of page ENTALLY HAZARDOUS SUBSTANCE, P.S. (PAINT)
· · · · · · · · · · · · · · ·
ous dangerous substances and articles.
mental hazardous mark is only applicable fo intaining more than 5 litres of liquids. and tree)
and tree)
e. Warm transport! (+5 °C) scellaneous dangerous substances and
le.
VIRONMENTALLY HAZARDOUS E, LIQUID, N.O.S. (PAINT), 9, III
ron

SECTION 15: Regulatory information

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- Poisons Act
- · Regulated explosives precursors

None of the ingredients is listed.

· Regulated poisons

None of the ingredients is listed.

· Reportable explosives precursors

None of the ingredients is listed.

· Reportable poisons

7632-00-0 sodium nitrite

Listed

- Directive 2012/18/EU
- \cdot Named dangerous substances ANNEX I None of the ingredients is listed.

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- · Seveso category E1 Hazardous to the Aquatic Environment
- · Qualifying quantity (tonnes) for the application of lower-tier requirements 100 t
- · Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t
- · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- · DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment Annex II

None of the ingredients is listed.

- · REGULATION (EU) 2019/1148
- · Annex I RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases

H272 May intensify fire; oxidiser.

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

- · Contact: Nor-Maali Oy, tel. +358 3 874 650 or sds@nor-maali.fi
- Date of previous version: 28.06.2023
- Version number of previous version: 2
- Abbreviations and acronyms:

ATE: Acute toxicity estimate values

Ox. Sol. 3: Oxidizing solids - Category 3

Acute Tox. 3: Acute toxicity – Category 3

Acute Tox. 4: Acute toxicity - Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3

* Data compared to the previous version altered.

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