

Safety data sheet



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

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. A
- **UFI:** F6HP-Q307-P00Q-1XUH
- **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. A
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**
 GHS07
 Skin Irrit. 2 H315 Causes skin irritation.
 Eye Irrit. 2 H319 Causes serious eye irritation.
 Skin Sens. 1 H317 May cause an allergic skin reaction.
 Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.
- **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
- **Signal word** Warning
- **Hazard-determining components of labelling:**
Epoxy resin (MW 700-1100)
oxirane, mono[(C12-14-alkyloxy)methyl] derivs
- **Hazard statements**
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H412 Harmful to aquatic life with long lasting effects.
- **Precautionary statements**
P273 Avoid release to the environment.
P280 Wear eye protection / face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.

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P403+P235 Store in a well-ventilated place. Keep cool.

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Additional information:

EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:

CAS: 25036-25-3 EC number: 607-500-3	Epoxy resin (MW 700-1100) Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	10 - 50%
CAS: 13463-67-7 EINECS: 236-675-5	titanium dioxide Carc. 2, H351	2.5 - 10%
CAS: 123-42-2 EINECS: 204-626-7 Reg.nr.: 01-2119473975-21-	4-hydroxy-4-methylpentan-2-one Flam. Liq. 3, H226; Eye Irrit. 2, H319 ATE: ATE oral: 2,520 mg/kg ATE dermal: 13,500 mg/kg Specific concentration limit: Eye Irrit. 2; H319: C ≥ 10 %	< 2.5%
CAS: 5131-66-8 EINECS: 225-878-4 Reg.nr.: 01-2119475527-28-	3-butoxypropan-2-ol Flam. Liq. 3, H226; Skin Irrit. 2, H315; Eye Irrit. 2, H319 ATE: ATE dermal: 3,100 mg/kg	< 2.5%
CAS: 770-35-4 EINECS: 212-222-7 Reg.nr.: 01-2119486566-23-	1-Phenoxypropan-2-ol Eye Irrit. 2, H319 ATE: ATE oral: 2,830 mg/kg	1 - 2.5%
CAS: 1431957-88-8 EC number: 836-193-0	Polymer with quaternized ammonium groups Aquatic Acute 1, H400; Aquatic Chronic 1, H410	< 0.9%
CAS: 68609-97-2 EINECS: 271-846-8 Reg.nr.: 01-2119485289-22-	oxirane, mono[(C12-14-alkyloxy)methyl] derivs Skin Irrit. 2, H315; Skin Sens. 1, H317 ATE: ATE oral: 17,100 mg/kg	< 0.4%

Additional information:

Contains: > 1 % TiO₂ (<10 µm)

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.

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

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 harmful to aquatic life with long lasting effects. Fire water contaminated 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.
- **6.3 Methods and material for containment and cleaning up:**
Absorb liquid components with liquid-binding material (sand, peat or other absorbent material). Ensure adequate ventilation.
- **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.
- **Information about fire - and explosion protection:** No special measures required.
- **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:**

123-42-2 4-hydroxy-4-methylpentan-2-one

HTP (Great Britain)	Short-term value: 360 mg/m ³ , 75 ppm Long-term value: 240 mg/m ³ , 50 ppm
WEL (Great Britain)	Short-term value: 362 mg/m ³ , 75 ppm Long-term value: 241 mg/m ³ , 50 ppm
HTP (Finland)	Short-term value: 360 mg/m ³ , 75 ppm Long-term value: 240 mg/m ³ , 50 ppm

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· DNELs	
123-42-2 4-hydroxy-4-methylpentan-2-one	
Dermal	DNEL 467 mg/kg bw/day (Workers - Long-term systemic effects)
Inhalative	DNEL 32.6 mg/m3 (Workers - Long-term systemic effects)
5131-66-8 3-butoxypropan-2-ol	
Dermal	DNEL 52 mg/kg bw/day (Workers - Long-term systemic effects)
Inhalative	DNEL 147 mg/m3 (Workers - Long-term systemic effects)
770-35-4 1-Phenoxypropan-2-ol	
Dermal	DNEL 42 mg/kg bw/day (Workers - Long-term systemic effects)
Inhalative	DNEL 25.7 mg/m3 (Workers - Long-term systemic effects)
68609-97-2 oxirane, mono[(C12-14-alkyloxy)methyl] derivs	
Dermal	DNEL 1 mg/kg bw/day (Workers - Long-term systemic effects)
Inhalative	DNEL 3.6 mg/m3 (Workers - Long-term systemic effects)
· PNECs	
123-42-2 4-hydroxy-4-methylpentan-2-one	
PNEC	2 mg/L (Freshwater)
	0.2 mg/L (Marine water)
	100 mg/L (Sewage treatment)
PNEC	7.4 mg/kg dwt (Fresh water sediment)
	0.74 mg/kg dwt (Marine water sediment)
PNEC	0.3 mg/kg (Soil)
5131-66-8 3-butoxypropan-2-ol	
PNEC	10 mg/L (Sewage treatment)
PNEC	2.36 mg/kg dwt (Fresh water sediment)
	0.236 mg/kg dwt (Marine water sediment)
PNEC	0.16 mg/kg (Soil)
PNEC	525 µg/L (Freshwater)
	52.5 µg/L (Marine water)
770-35-4 1-Phenoxypropan-2-ol	
PNEC	10 mg/L (Sewage treatment)
PNEC	0.38 mg/kg dwt (Fresh water sediment)
	0.038 mg/kg dwt (Marine water sediment)
PNEC	0.02 mg/kg (Soil)
PNEC	100 µg/L (Freshwater)
	10 µg/L (Marine water)
68609-97-2 oxirane, mono[(C12-14-alkyloxy)methyl] derivs	
PNEC	10 mg/L (Sewage treatment)
PNEC	307.16 mg/kg dwt (Fresh water sediment)
	30.72 mg/kg dwt (Marine water sediment)
PNEC	1.234 mg/kg (Soil)
PNEC	105.8 µg/L (Freshwater)
	10.58 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:**

Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

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· **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.

· **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 state**

Fluid

· **Colour:**

Grey

· **Odour:**

Light

· **Odour threshold:**

Not determined.

· **Melting point/freezing point:**

Undetermined.

· **Boiling point or initial boiling point and boiling range**

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

· **Flammability**

Not applicable.

· **Flash point:**

Not applicable.

· **Auto-ignition temperature:**

260 °C (5131-66-8 3-butoxypropan-2-ol)

· **Decomposition temperature:**

Not determined.

· **pH at 20 °C**

> 9.5

· **Viscosity:**

· **Kinematic viscosity at 40 °C**

> 20.5 mm²/s

· **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:**

1.4 g/cm³

· **Relative density**

Not determined.

· **Vapour density**

Not determined.

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- **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
- **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**
Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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:**

25036-25-3 Epoxy resin (MW 700-1100)

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

13463-67-7 titanium dioxide

Oral	LD50	> 5,000 mg/kg (rat)
Dermal	LD50	> 10,000 mg/kg (rabbit)

123-42-2 4-hydroxy-4-methylpentan-2-one

Oral	LD50	2,520 mg/kg (rat)
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Dermal	LD50	13,500 mg/kg (rabbit)
5131-66-8 3-butoxypropan-2-ol		
Oral	LD50	> 2,124 mg/kg (rat)
Dermal	LD50	3.100 mg/kg (rabbit)
Inhalative	LC50/4 h	> 3,412 mg/l (rat)
770-35-4 1-Phenoxypropan-2-ol		
Oral	LD50	2,830 mg/kg (rat)
Dermal	LD50	> 2,000 mg/kg (rat)
Inhalative	LC50/4 h	5,400 mg/l (rat)
68609-97-2 oxirane, mono[(C12-14-alkyloxy)methyl] derivs		
Oral	LD50	17,100 mg/kg (rat)
Dermal	LD50	> 4,000 mg/kg (rabbit)

- **Skin corrosion/irritation**
Causes skin irritation.
- **Serious eye damage/irritation**
Causes serious eye irritation.
- **Respiratory or skin sensitisation**
May cause an allergic skin reaction.
- **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** Based on available data, the classification criteria are not met.
- **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.
- **11.2 Information on other hazards**

· **Endocrine disrupting properties**

None of the ingredients is listed.

SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**

13463-67-7 titanium dioxide

96-h LC50 10,000 mg/L (Fish) (OECD 203)

123-42-2 4-hydroxy-4-methylpentan-2-one

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

48-h EC50 1,000 mg/L (Daphnia magna)

96-h LC50 100 mg/L (Fish)

5131-66-8 3-butoxypropan-2-ol

48-h EC50 1,000 mg/L (Daphnia magna)

96-h LC50 560 - 1,000 mg/L (Fish)

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

770-35-4 1-Phenoxypropan-2-ol

72-h EC50 100 mg/L (Algae)

48-h EC50 370 mg/L (Daphnia magna)

96-h LC50 280 mg/L (Fish)

68609-97-2 oxirane, mono[(C12-14-alkyloxy)methyl] derivs

96-h LC50 100 mg/L (Fish)

72-h IC50 843.75 mg/L (Algae)

48-h EL50 7.2 mg/L (Daphnia magna)

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- **12.2 Persistence and degradability**
Biodegradation:
No further relevant information available.
- **12.3 Bioaccumulative potential** 4-hydroxy-4-methyl-2-pentanone: LogPow = -0,14 (low)
- **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**
The product does not contain substances with endocrine disrupting properties.
- **12.7 Other adverse effects** No further relevant information available.

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
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- **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, ADN, IMDG, IATA	Not dangerous goods
· 14.2 UN proper shipping name · ADR, ADN, IMDG, IATA	Not dangerous goods
· 14.3 Transport hazard class(es) · ADR, ADN, IMDG, IATA · Class	Not dangerous goods
· 14.4 Packing group · ADR, IMDG, IATA	Not dangerous goods
· 14.5 Environmental hazards: · Marine pollutant:	No
· 14.6 Special precautions for user	Do not freeze. Warm transport! (+5 °C)
· 14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
· UN "Model Regulation":	Not dangerous goods

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.

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· **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**

- H226 Flammable liquid and vapour.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H351 Suspected of causing cancer.
- H400 Very toxic to aquatic life.
- H410 Very toxic 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
- Flam. Liq. 3: Flammable liquids – Category 3
- Skin Irrit. 2: Skin corrosion/irritation – Category 2
- Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
- Skin Sens. 1: Skin sensitisation – Category 1
- Carc. 2: Carcinogenicity – Category 2
- 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.**