

Safety data sheet

(EC) 1907/2006 (REACH), Annex II, as amended by Regulation
(EU) 2022/692

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Date of revision: 07.09.2022
Date of previous issue: 10.08.2022
Version number 7 (replaces version 6)

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

- **1.1 Product identifier**
- **Trade name:** Norepox Aqua DTM Comp. B
- **UFI:** 4AJV-2W11-YC03-DDWW
- **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.



GHS07

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:**
Neodecanoic acid, 2-oxiranylmethyl ester, reaction products with bisphenol A-bisphenol A diglycidyl ether polymer, glycidyl o-tolyl ether, 2-methyl-1,5-pentanediamine, oxidized polyethylene glycol
- **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.

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

Dangerous components:

CAS: 219687-87-3 EC number: 828-111-7	Neodecanoic acid, 2-oxiranylmethyl ester, reaction products with bisphenol A-bisphenol A diglycidyl ether polymer, glycidyl o-tolyl ether, 2-methyl-1,5-pentanediamine, oxidized polyethylene glycol	25 - 100%
	Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	
CAS: 532-32-1 EINECS: 208-534-8 Reg.nr.: 01-2119460683-35-	Benzoic acid, sodium salt	0.1 - 2.5%
	Eye Irrit. 2, H319	
CAS: 95-14-7 EINECS: 202-394-1 Reg.nr.: 01-2119979079-20-	benzotriazole	< 0.4%
	Acute Tox. 4, H302; Acute Tox. 4, H332; Eye Irrit. 2, H319; Aquatic Chronic 3, H412	
CAS: 7632-00-0 EINECS: 231-555-9 Reg.nr.: 01-2119471836-27-	sodium nitrite	< 0.4%
	Ox. Sol. 3, H272; Acute Tox. 3, H301; Aquatic Acute 1, H400	

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.

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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 toxic 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. 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:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· DNELs

532-32-1 Benzoic acid, sodium salt

Dermal	DNEL	62.5 mg/kg bw/day (Workers - Long-term systemic effects)
Inhalative	DNEL	3 mg/m3 (Workers - Long-term systemic effects) 100 mg/m3 (Workers - Long-term local effects)

95-14-7 benzotriazole

Dermal	DNEL	240 µg/kg bw/day (Workers - Long-term systemic effects)
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Inhalative	DNEL	4.2 mg/m ³ (Workers - Long-term systemic effects)
7632-00-0 sodium nitrite		
Inhalative	DNEL	2 mg/m ³ (Workers - Long-term systemic effects)
PNECs		
532-32-1 Benzoic acid, sodium salt		
PNEC	10 mg/L	(Sewage treatment)
PNEC	1.76 mg/kg dwt	(Fresh water sediment)
	0.176 mg/kg dwt	(Marine water sediment)
PNEC	300 mg/kg	(Secondary Poisoning)
	0.06 mg/kg	(Soil)
PNEC	130 µg/L	(Freshwater)
	13 µg/L	(Marine water)
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 item 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

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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:	Coloured
· Odour:	Light
· Odour threshold:	Not determined.
· Melting point/freezing point:	Undetermined.
· Boiling point or initial boiling point and boiling range	Undetermined.
· Flammability	Not applicable.
· Lower and upper explosion limit	
· Lower:	1 vol-%
· Upper:	11 vol-%
· Flash point:	93 °C
· Decomposition temperature:	Not determined.
· pH	Not determined.
· Viscosity:	
· Kinematic viscosity at 40 °C	> 20.5 mm ² /s
· Dynamic:	Not determined.
· Solubility	
· water:	Not miscible or difficult to mix.
· Partition coefficient n-octanol/water (log value)	Not determined.
· Vapour pressure:	Not determined.
· Density and/or relative density	
· Density at 20 °C:	1.09 g/cm ³
· Relative density	Not determined.
· Vapour density	Not determined.

· 9.2 Other information

· Appearance:	
· Form:	Fluid
· Important information on protection of health and environment, and on safety.	
· Auto-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

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· 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:**

532-32-1 Benzoic acid, sodium salt

Oral	LD50	> 2,000 mg/kg (rat)
Dermal	LD50	> 2,000 mg/kg (rabbit)
Inhalative	LC50/4 h	> 12.2 mg/l (rat)

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)
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- **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.
- **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:
532-32-1 Benzoic acid, sodium salt

72-h EC50	30.5 mg/L (Algae)
96-h LC50	100 mg/L (Daphnia magna)
	484 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
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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, IMDG, IATA

UN3082

14.2 UN proper shipping name

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<ul style="list-style-type: none"> · ADR, IATA · IMDG 	<p>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Neodecanoic acid, 2-oxiranylmethyl ester, reaction products with bisphenol A-bisphenol A diglycidyl ether polymer, glycidyl o-tolyl ether, 2-methyl-1,5-pentanediamine, oxidized polyethylene glycol)</p> <p>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Neodecanoic acid, 2-oxiranylmethyl ester, reaction products with bisphenol A-bisphenol A diglycidyl ether polymer, glycidyl o-tolyl ether, 2-methyl-1,5-pentanediamine, oxidized polyethylene glycol, sodium nitrite), MARINE POLLUTANT</p>
<ul style="list-style-type: none"> · 14.3 Transport hazard class(es) · ADR, IMDG, IATA 	<p>9 Miscellaneous dangerous substances and articles.</p>
<ul style="list-style-type: none"> · 14.4 Packing group · ADR, IMDG, IATA 	<p>III</p>
<ul style="list-style-type: none"> · 14.5 Environmental hazards: · Marine pollutant: · Special marking (ADR): · Special marking (IATA): 	<p>Yes</p> <p>The environmental hazardous mark is only applicable for packages containing more than 5 litres of liquids.</p> <p>Symbol (fish and tree)</p> <p>Symbol (fish and tree)</p>
<ul style="list-style-type: none"> · 14.6 Special precautions for user · Hazard identification number (Kemler code): · EMS Number: · Stowage Category 	<p>Do not freeze. Warm transport! (+5 °C)</p> <p>Warning: Miscellaneous dangerous substances and articles.</p> <p>90</p> <p>F-A,S-F</p> <p>A</p>
<ul style="list-style-type: none"> · 14.7 Maritime transport in bulk according to IMO instruments 	<p>Not applicable.</p>
<ul style="list-style-type: none"> · Transport/Additional information: 	
<ul style="list-style-type: none"> · ADR · Limited quantities (LQ) · Transport category · Tunnel restriction code 	<p>This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.</p> <p>5L</p> <p>3</p> <p>(-)</p>
<ul style="list-style-type: none"> · IMDG · Limited quantities (LQ) 	<p>This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.</p> <p>5L</p>
<ul style="list-style-type: none"> · UN "Model Regulation": 	<p>UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (MODIFIED EPOXY AMINE ADDUCT), 9, III</p>

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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.
- 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

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· Abbreviations and acronyms:

- 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.**