Safety data sheet

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

Date of revision: 02.01.2024
Date of previous issue: 20.04.2022
Version number 9 (replaces version 8)

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

· **1.1 Product identifier**

· **Trade name: Akvanor 100 SG**

· **1.2 Relevant identified uses of the substance or mixture and uses advised against**
· **Sector of Use** Coating
· **Product category** PC9a Coatings and paints, thinners, paint removers
· **Application of the substance / the mixture**
Water borne acrylic paint
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**
The product is not classified, according to the GB CLP regulation.

· **2.2 Label elements**
· **Labelling according to Regulation (EC) No 1272/2008** Void
· **Hazard pictograms** Void
· **Signal word** Void
· **Hazard statements** Void
· **Additional information:**
EUH208 Contains reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1), 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction.
EUH210 Safety data sheet available on request.
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.

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SECTION 3: Composition/information on ingredients

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

· **Dangerous components:**		
CAS: 13463-67-7 EINECS: 236-675-5 Reg.nr.: 01-2119489379-17-	titanium dioxide Carc. 2, H351	10 - 25%
CAS: 111-76-2 EINECS: 203-905-0 Reg.nr.: 01-2119475108-36-	2-butoxyethanol Acute Tox. 3, H331; Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319 ATE: LD50 oral: 1,200 mg/kg ATE inhalative: 3 mg/l	1 - 2.5%

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CAS: 77-99-6 EINECS: 201-074-9 Reg.nr.: 01-2119486799-10-	propylidynetrimethanol Repr. 2, H361fd	< 0.2%
CAS: 2634-33-5 EINECS: 220-120-9 Reg.nr.: 01-2120761540-60-	1,2-benzisothiazol-3(2H)-one Eye Dam. 1, H318; Aquatic Acute 1, H400; Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1, H317 ATE: ATE oral: 675.3 mg/kg ATE dermal: > 5,000 mg/kg Specific concentration limit: Skin Sens. 1; H317: C ≥ 0.05 %	< 0.026%
CAS: 55965-84-9 EC number: 611-341-5	reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) Acute Tox. 3, H301; Acute Tox. 2, H310; Acute Tox. 2, H330; Skin Corr. 1C, H314; Eye Dam. 1, H318; Aquatic Acute 1, H400 (M=100); Aquatic Chronic 1, H410 (M=100); Skin Sens. 1A, H317, EUH071 ATE: ATE oral: 64 mg/kg ATE dermal: 87.12 mg/kg ATE inhalative: 0.33 mg/l Specific concentration limits: Skin Corr. 1C; H314: C ≥ 0.6 % Skin Irrit. 2; H315: 0.06 % ≤ C < 0.6 % Eye Dam. 1; H318: C ≥ 0.6 % Eye Irrit. 2; H319: 0.06 % ≤ C < 0.6 % Skin Sens. 1A; H317: C ≥ 0.0015 %	< 0.00090319%

· **Additional information:**
Contains: > 1 % TiO_2 (<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.
· **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.

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· **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.
· **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).
· **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.
· **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 > +5 °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:** None.
· **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:**	
111-76-2 2-butoxyethanol	
HTP (Finland)	Short-term value: 250 mg/m³, 50 ppm Long-term value: 98 mg/m³, 20 ppm skin

· **DNELs**		
111-76-2 2-butoxyethanol		
Oral	DNEL	1,091 mg/kg bw/day (Workers - acute systemic effects)
Dermal	DNEL	98 mg/kg bw/day (Workers - Long-term systemic effects)
77-99-6 propylidynetrimethanol		
Dermal	DNEL	940 µg/kg bw/day (Workers - Long-term systemic effects)
Inhalative	DNEL	3.3 mg/m3 (Workers - Long-term systemic effects)
2634-33-5 1,2-benzisothiazol-3(2H)-one		
Dermal	DNEL	0.966 mg/kg bw/day (Workers - Long-term systemic effects)
Inhalative	DNEL	6.81 mg/m3 (Workers - Long-term systemic effects)

· **PNECs**	
111-76-2 2-butoxyethanol	
PNEC	8.8 mg/L (Freshwater) 0.88 mg/L (Marine water)

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	463 mg/L (Sewage treatment)
PNEC	34.6 mg/kg dwt (Fresh water sediment)
	3.46 mg/kg dwt (Marine water sediment)
PNEC	20 mg/kg (Secondary Poisoning)
	2.33 mg/kg (Soil)
2634-33-5 1,2-benzisothiazol-3(2H)-one	
PNEC	1.03 mg/L (Sewage treatment)
PNEC	0.0499 mg/kg dwt (Fresh water sediment)
	0.00499 mg/kg dwt (Marine water sediment)
PNEC	3 mg/kg (Soil)
PNEC	4.03 µg/L (Freshwater)
	0.403 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:** Use suitable respiratory protective device in case of insufficient ventilation.
· **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

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SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**
· **General Information**

· **Physical state**	Fluid
· **Colour:**	Colourful
· **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)

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· **Flammability**	Not applicable.
· **Flash point:**	Not applicable.
· **Decomposition temperature:**	Not determined.
· **pH at 20 °C**	9.5 - 10.5
· **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:**	1.2 g/cm³
· **Relative density**	Not determined.
· **Vapour density**	Not determined.

· **9.2 Other information**	
· **Appearance:**	
· **Form:**	Liquid
· **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.

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· **10.6 Hazardous decomposition products:**
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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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	81,633 mg/kg (ATE)
Inhalative	ATE	204 mg/l (ATE)

13463-67-7 titanium dioxide		
Oral	LD50	> 5,000 mg/kg (rat)
Dermal	LD50	> 10,000 mg/kg (rabbit)
111-76-2 2-butoxyethanol		
Oral	LD50	1,300 mg/kg (rat)
Dermal	LD50	435 mg/kg (rabbit)
77-99-6 propylidynetrimethanol		
Oral	LD50	14,700 mg/kg (rat)
Dermal	LD50	10,000 mg/kg (rabbit)
Inhalative	LC50/4 h	850 mg/l (rat)
2634-33-5 1,2-benzisothiazol-3(2H)-one		
Oral	LD50	675.3 mg/kg (rat)
Dermal	LD50	> 5,000 mg/kg (rabbit)
55965-84-9 reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)		
Oral	LD50	64 mg/kg (rat)
Dermal	LD50	87.12 mg/kg (rabbit)

· **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
· **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
· **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** 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.

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SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**	
13463-67-7 titanium dioxide	
96-h LC50	10,000 mg/L (Fish) (OECD 203)
111-76-2 2-butoxyethanol	
72-h EC50	623 mg/L (Algae) (OECD TG 201)
48-h EC50	1,550 - 1,800 mg/L (Daphnia magna) (OECD TG 202)
96-h LC50	1,474 mg/L (Fish) (OECD TG 203)

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77-99-6 propylidynetrimethanol	
72-h EC50	1 mg/L (Algae)
48-h EC50	13 mg/L (Daphnia magna)
96-h LC50	1 - 10 mg/L (Fish)
2634-33-5 1,2-benzisothiazol-3(2H)-one	
72-h EC50	0.11 mg/L (Algae)
48-h EC50	2.9 - 2.94 mg/L (Daphnia magna)
96-h LC50	2.15 - 22 mg/L (Fish)

· **12.2 Persistence and degradability**
Biodegradability:
2-butoxyethanol: 90 % (aerobic; activated sludge; exposure time: 28 days) (OECD 301 B); easily degrading
· **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**
The product does not contain substances with endocrine disrupting properties.
· **12.7 Other adverse effects**
· **Remark:** Harmful to 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, 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.

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· **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.

· **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**
H301 Toxic if swallowed.
H302 Harmful if swallowed.
H310 Fatal 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.
H331 Toxic if inhaled.
H351 Suspected of causing cancer.
H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
EUH071 Corrosive to the respiratory tract.
· **Contact:** Nor-Maali Oy, tel. +358 3 874 650 or sds@nor-maali.fi
· **Date of previous version:** 20.04.2022
· **Version number of previous version:** 8
· **Abbreviations and acronyms:**
ATE: Acute toxicity estimate values
Acute Tox. 4: Acute toxicity – Category 4
Acute Tox. 2: Acute toxicity – Category 2
Acute Tox. 3: Acute toxicity – Category 3
Skin Corr. 1C: Skin corrosion/irritation – Category 1C
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1

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Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Skin Sens. 1: Skin sensitisation – Category 1
Skin Sens. 1A: Skin sensitisation – Category 1A
Carc. 2: Carcinogenicity – Category 2
Repr. 2: Reproductive toxicity – 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

· *** Data compared to the previous version altered.**