

# SAFETY DATA SHEET

## Nanten A Epoksiohennin

Regulation (EU) No 1907/2006 and 2015/830

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1 Product identifier

Trade name	Nanten A Epoksiohennin
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#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

The uses of the chemical	Solvent. For professional use only.
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#### 1.3 Details of the supplier of the Safety Data Sheet

	<b>Nanten Oy</b>
Street address	Teollisuustie 6
Postcode and post office	04300 Tuusula, Finland
Telephone number	+358 9 274 7970
E-mail address	nanten@nanten.com
	www.nanten.com

#### 1.4 Emergency telephone number

**Poison Information Centres**  
Finland (Myrkytystietokeskus): 0800 147 111 or (+358) (0)9 471 977, open 24 h/d  
Emergency Response Centres (Europe): 112

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

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

Flammable liquids – category 2	H225
Eye damage /irritation – category 2	H319

#### 2.2 Label elements



Signal word: Danger

**Hazard Statements:**

H225 - Highly flammable liquid and vapour  
H319 – Causes serious eye irritation

**Precautionary Statements:**

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking  
P233 - Keep container tightly closed  
P241 - Use explosion-proof electrical/ventilating/lighting equipment.  
P243 - Take action to prevent static discharges  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P403 + P235 - Store in a well-ventilated place. Keep cool.

**Contains:**

Ethanol, 1-Methoxypropan-2-ol, Acetone

**2.3 Other hazards**

No information available.

**SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS****3.1 Substances**

This product is a mixture.

**3.2 Mixtures**

Substance name	CAS-, EC- or index number	REACH Registration No.	Weight-%	Classification 1272/2008/EU)
Ethanol	CAS: 64-17-5 EC: 200-578-6 Ind.: 603-002-00-5	01-2119457610-43	> 95 %	Flam. Liq. 2, H225 Eye Irrit. 2, H319
1-Methoxypropan-2-ol	CAS: 107-98-2 EC: 203-539-1 Ind.: 603-064-00-3	01-2119457435-35	≤ 5 %	Flam. Liq. 3, H226 STOT SE 3, H336
Acetone	CAS: 67-64-1 EC: 200-662-2 Ind.: 606-001-00-8	01-2119471330-49	< 3 %	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336

See Section 16 for full texts of the hazard statements (H phrases).

**SECTION 4: FIRST AID MEASURES****4.1 Description of first aid measures****Inhalation:**

Remove person to fresh air.

**Skin contact:**

Rinse splashes immediately with plenty of water.

**Eye contact:**

Rinse immediately with plenty of water. Keep eyelids open. Continue rinsing for at least 15 minutes. Get medical attention, if irritation persists.

**Ingestion:**

Do NOT induce vomiting. Rinse mouth with water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

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

No information available.

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

No information available.

**SECTION 5: FIREFIGHTING MEASURES****5.1 Extinguishing media**

Alcohol resistant foam. Carbon dioxide (CO<sub>2</sub>). Dry powder.

**5.2 Special hazards arising from the substance or mixture**

Hazardous decomposition products formed under fire conditions: carbon dioxide, carbon monoxide.

**5.3 Advice for firefighters**

Wear firefighter's suit and a self-contained breathing apparatus. Cool containers with water. Vapours are heavier than air and may spread along floors. Ignitable mixtures may form in air. Remove all sources of ignition.

**SECTION 6: ACCIDENTAL RELEASE MEASURES****6.1 Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation. Remove all sources of ignition. Use personal protective equipment. Keep unauthorized people away.

**6.2 Environmental precautions**

Do not release to the environment. Prevent product from entering drains.

**6.3 Methods and materials for containment and cleaning up**

Contain and collect spillage with inert absorbent material. Use only explosion-proof equipment.

**6.4 Reference to other sections**

See Sections 7 and 8 for protective measures.

**SECTION 7: HANDLING AND STORAGE****7.1 Precautions for safe handling****Protective measures:**

Use only in well-ventilated areas. Keep away from sources of ignition - No smoking. Take action to prevent static discharges. Before transferring the product from/to containers, make sure that all equipment are sufficiently earthened.

Do not breathe fume, mist, vapour or spray. Avoid getting into eyes, on skin or on clothes. Take off contaminated clothing and wash it before reuse. Wash hands before breaks and at the end of the work.

**7.2 Conditions for safe storage, including any incompatibilities**

Keep container tightly closed. Store in a cool, well-ventilated place. Store away from sources of heat, sparks and hot surfaces. Incompatible materials: see Section 10.

**7.3 Specific end use(s)**

Not defined.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1 Control parameters**

This list is not exhaustive. Other national /international regulations may concern the monitoring of exposure to the ingredients of this product.

OEL and DNEL values given below apply to work-related exposure.

**Occupational Exposure Limit Values (OELs)**

OEL Finland, STM 2018:

	<b>TWA (8 h)</b>	<b>STEL (15 min)</b>
<b>Ethanol</b> (CAS 64-17-5)	1000 ppm, 1900 mg/m <sup>3</sup>	1300 ppm, 2500 mg/m <sup>3</sup>
<b>1-Methoxypropan-2-ol</b> (CAS 107-98-2)	100 ppm, 370 mg/m <sup>3</sup> (skin)	150 ppm, 560 mg/m <sup>3</sup>
<b>Acetone</b> (CAS 67-64-1)	500 ppm, 1200 mg/m <sup>3</sup>	630 ppm, 1500 mg/m <sup>3</sup>

TWA: Time-Weighted Average, STEL: Short-Term Exposure Limit

**DNEL (Derived No Effect Level)**

Ethanol:

<b>Workers</b>		
	<b>Acute – local effects</b>	<b>Long term – systemic effects</b>
Oral	not available	not available
Inhalation	not available	950 mg/m <sup>3</sup>
Dermal	not available	343 mg/m <sup>3</sup>
<b>Consumers</b>		
Oral	not available	87 mg/kg
Inhalation	950 mg/m <sup>3</sup>	114 mg/m <sup>3</sup>
Dermal	not available	206 mg/m <sup>3</sup>

**PNEC (Predicted No Effect Concentration)**

Ethanol:

<b>Compartment</b>	<b>Concentration</b>
Fresh water	0,96 mg/l
Marine water	0,79 mg/l
Sewage treatment plant	580 mg/l
Fresh water sediment	3,6 mg/kg d.w.
Marine sediment	not available
Soil	not available
Intermittent discharge	2,75 mg/l
Oral	720 g/kg
d.w. = per dry weight	

**8.2 Exposure controls****Engineering controls**

Ensure adequate ventilation /exhaust ventilation. Use only explosion-proof equipment. Provide eye wash bottles or stations and emergency showers at the workplace.

**Eye and face protection**

Wear tight chemical splash goggles or face shield. The goggles should have a CE-marking and comply with standard EN 166.

**Hand protection**

Wear chemical-resistant gloves. Recommended material: butyl rubber.

**Skin protection**

Wear chemical protective clothing.

**Respiratory protection**

Wear personal respiratory protection if ventilation is insufficient to prevent exposure. Recommended filter type: A.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1 Information on basic physical and chemical properties**

Physical state	liquid
Colour	colourless
Odour	characteristic
Odour threshold	not available
Melting point /freezing point	not available
Initial boiling point and boiling range	ca. 78 °C
Flash point	ca. 12 °C
Evaporation rate	not available
Flammability (solid, gas)	not available
Lower flammability or explosive limit	ca. 3 vol-%
Upper flammability or explosive limit	ca. 15 vol-%
Autoignition temperature	> 200 °C
pH	not available
Viscosity	not available
Solubility(ies)	miscible
Partition coefficient: n-octanol/water	log P <sub>ow</sub> 1 (ethanol)
Vapour pressure	ca. 6 kPa (20 °C)
Density	0,81 g/cm <sup>3</sup> (20 °C)
Vapour density	not available

**9.2 Other information**

No information available.

**SECTION 10: STABILITY AND REACTIVITY****10.1 Reactivity**

No information available.

**10.2 Chemical stability**

The product is chemically stable under recommended conditions of storage, use and temperature.

**10.3 Possibility of hazardous reactions**

No information available on hazardous reactions under recommended conditions of storage, use and temperature.

**10.4 Conditions to avoid**

Heat, flames and sparks. Exposure to sunlight.

**10.5 Incompatible materials**

Oxidants. Acids. Bases. Alkali metals. Amines. Acid anhydrides.

**10.6 Hazardous decomposition products**

No hazardous decomposition products are known.

**SECTION 11: TOXICOLOGICAL INFORMATION****11.1 Information on toxicological effects****Acute toxicity**

	Test / meter	Dose /concentration	Species
<b>Ethanol</b>			
Oral	LC50	6 200 mg/kg	Rat
Inhalation	LC50	124,7 mg/l (4 h)	Rat
Dermal	LD50	20 000 mg/kg	Rabbit

**Skin corrosion/irritation**

May cause skin irritation.

**Serious eye damage/irritation**

May cause eye irritation.

**Respiratory or skin sensitisation**

No information available.

**Germ cell mutagenicity**

No information available.

**Carcinogenicity**

No information available.

**Reproductive toxicity**

Suspected of damaging fertility or the unborn child (oral exposure).

**Specific target organ toxicity - single exposure**

Symptoms of over-exposure may include: headache, nausea, other symptoms of central nervous system.

**Specific target organ toxicity – repeated exposure**

Long-term or repeated oral exposure may be damaging to organs. Damage of liver.

**Aspiration hazard**

No information available.

**11.2 Information on other hazards**

No information available.

**SECTION 12: ECOLOGICAL INFORMATION****12.1 Toxicity**

Ethanol:

	Meter	Result	Exposure time
Fish, <i>Alburnus alburnus</i>	LC50	11 000 mg/l	96 h
Invertebrates, <i>Daphnia magna</i>	EC50	9 268 mg/l	48 h
Algae, <i>Microcystis aeruginosa</i>	EC50	1450 mg/l	192 h

**12.2 Persistence and degradability**

Ethanol: biodegradation 89 % (100 mg/l, 14 d).

**12.3 Bioaccumulative potential**

	Log Pow	BCF	Biodegradation potential
<b>Ethanol</b>	-0,31	3	low

Log Pow: logarithm of octanol-water partition coefficient, BCF: Bioconcentration Factor

**12.4 Mobility in soil**

The product evaporates rapidly and dissolves in water.

**12.5 Results of PBT and vPvB assessment**

The product contains no substances classified as Persistent, Bioaccumulative and Toxic (PBT) or very Persistent and very Bioaccumulative (vPvB) compounds.

**12.6 Endocrine disrupting properties**

No information available.

**12.7 Other adverse effects**

No information available.

**SECTION 13: DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods**

Dispose of via licenced waste management contractor. Empty container is hazardous. Do not burn, or use a cutting torch on, the empty container. Container can be reused after decontamination.

**SECTION 14: TRANSPORT INFORMATION****14.1 UN number**ADR / RID: 1993  
IMDG: 1993  
ICAO-TI: 1993**14.2 UN proper shipping name**ADR / RID: FLAMMABLE LIQUID, N.O.S. (ethanol, 1-methoxypropan-2-ol)  
IMDG: FLAMMABLE LIQUID, N.O.S. (ethanol, 1-methoxypropan-2-ol)  
ICAO-TI: FLAMMABLE LIQUID, N.O.S. (ethanol, 1-methoxypropan-2-ol)

**14.3 Transport hazard class(es)**

ADR / RID: 3  
IMDG: 3  
ICAO-TI: 3

**14.4 Packing group**

ADR / RID: II  
IMDG: II  
ICAO-TI: II

**14.5 Environmental hazards**

IMDG marine pollutant: No.

**14.6 Special precautions for user**

Transport in sealed containers, in upright position and tightly fastened. Make sure that persons transporting the chemical have been trained for emergency and spillage situations.

**SECTION 15: REGULATORY INFORMATION****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

This product does not contain substances subject to authorisation according to REACH [(EU) N:o 1907/2006], Annex XIV.  
This product does not contain restricted substances according to to REACH [(EU) N:o 1907/2006], Annex XVII.

**15.2 Chemical safety assessment**

A Chemical Safety Assessment has not been carried out.

**SECTION 16: OTHER INFORMATION****Changes to previous version (1.0)**

Hazard statement H319 has been added. Information concerning substances, composition, and safety instructions has been updated.

**Full text of H-Statements referred to under section 3**

H225 - Highly flammable liquid and vapour

H226 - Flammable liquid and vapour

H319 - Causes serious eye irritation

H336 - May cause drowsiness or dizziness.

**Training advice for workers**

It is recommended that persons handling this product should have at least a basic level training on occupational risk prevention, to facilitate comprehension and interpretation of this safety data sheet.

**NOTE**

The information provided in this safety data sheet is correct to the best of knowledge of Nanten, or it is based on sources that are considered to be reliable. However, it is the responsibility of the user to be aware of and to take into account all other information with relevance to the safe use of this product and to take the required measures to ensure safety and compliance with current regulations in handling, storing, using and disposing of this product.