



SAFETY DATA SHEET

In accordance with the criteria of Regulation No 1907/2006 (REACH) as amended

Quantsil base

Date: 22.03.2022

Revision: -

Page/pages: 1/9

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

1.1. Product identifier

Quantsil base

1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: Used for scientific research and development.

Uses advised against: Not specified.

1.3. Details of the supplier of the safety data sheet

Supplier: NANOXO sp. z o.o.

Address: Poland; PL 01-224 Warszawa; Marcina Kasprzaka 44/52 Street

Telephone: +48 22 378 48 30

E-mail address of the person responsible for the SDS: info@nanoxo.eu

1.4. Emergency telephone number

112 (emergency call)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation 1272/2008/EC:

Hazards to man: Does not meet the criteria of classification.

Hazards to environment: Does not meet the criteria of classification as dangerous for the environment.

Hazard from physical and chemical properties: Does not meet the criteria of classification.

2.2. Label elements

Label accordance with Regulation 1272/2008/EC (CLP)

Hazard pictogram, signal words: None.

Hazard statements: None.

Precautionary statements: None.

The names of hazardous ingredients on the label: None.

2.3. Other hazards

The product does not meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation 1907/2006 (REACH).

The product does not contain ingredients entered in the list established in accordance with Art. 59 paragraph 1 as having endocrine disrupting properties or components with endocrine disrupting properties in accordance with the criteria set out in Regulation 2017/2100/EU or Regulation 2018/605/EU in a concentration equal to or greater than 0.1 %.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable.

3.2. Mixtures

Substance name:	Tetrahydrofuran
Concentration [%]:	>0.3-<1
Version 1	



SAFETY DATA SHEET

In accordance with the criteria of Regulation No 1907/2006 (REACH) as amended

Quantsil base

Date: 22.03.2022

Revision: -

Page/pages: 2/9

CAS Number:	109-99-9
EC Number:	203-726-8
Index Number:	603-025-00-0
Classification 1272/2008/EC:	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H335 Carc. 2; H351 EUH019 Specific Concentration limits: Eye Irrit.2; H319: C ≥ 25 % STOT SE 3; H335: C ≥ 25 %
The registration number:	Not applicable. The substance does not import more than 1 tonne per year (Article 6 (1) of Regulation 1907/2006 (REACH))

Substance name:	Ethylbenzene
Concentration [%]:	≤0.2
CAS Number:	100-41-4
EC Number:	202-849-4
Index Number:	601-023-00-4
Classification 1272/2008/EC:	Flam. Liq. 2; H225 Acute Tox. 4; H332 Asp. Tox. 1; H304 STOT RE 2; H373 (hearing organs)
The registration number:	Not applicable. The substance does not import more than 1 tonne per year (Article 6 (1) of Regulation 1907/2006 (REACH))

In section 16 stated the importance of H-phrases and symbols.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation: Move affected person to fresh air and keep at rest. In the case of alarming symptoms, seek medical advice.

Skin contact: Take off all contaminated clothing. Wash contaminated skin with soap and water, and then rinse with plenty of clean water. In the case of alarming symptoms, seek medical advice.

Eye contact: Remove contact lenses. Rinse contaminated eyes with water for at least 15 minutes, holding the eyelids open. From time to time, place the upper eyelid over the lower one. In the case of alarming symptoms, seek medical advice.

Ingestion: Rinse mouth with water. In the case of alarming symptoms, seek medical advice.

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

In the case of alarming symptoms, seek medical advice.

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

Remove affected person from the environment contaminated by the product. In the event of health problems, consult your doctor or the center of toxicological concern. Provide the information contained in the SDS. If unconscious, do not give anything by mouth.



SAFETY DATA SHEET

In accordance with the criteria of Regulation No 1907/2006 (REACH) as amended

Quantsil base

Date: 22.03.2022

Revision: -

Page/pages: 3/9

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Extinguishing media should be adapted to surrounding objects.

Unsuitable extinguishing media: Not specified.

5.2. Special hazards arising from the substance or mixture

In case of fire hazardous products may be formed: e.g. carbon oxide. Avoid inhalation of combustion products, because they may pose a health risk.

5.3. Advice for firefighters

Wear full protective equipment and self-contained breathing apparatus with independent air circulation. Containers exposed to fire or high temperature cool with water and if possible remove from the danger zone. Protect drains, surface waters and soil from pollution. Water from fire treated as hazardous pollution and accumulate in separate containers.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: Access of non-emergency personnel to the area of accident should be restricted until the completion of the disposal of the product. Wear appropriate personal protective equipment. Avoid contact with eyes and skin. Do not breathe dust.

For emergency responders: Wear appropriate personal protective equipment. Avoid contact with eyes and skin. Do not breathe dust.

6.2. Environmental precautions

Secure the gullies. Prevent contamination of surface water and ground. In the event of any serious pollution of the environment, notify the appropriate administrative authority, control and rescue services. The used containers should be disposed by delivering to eligible organizations.

6.3. Methods and material for containment and cleaning up

Secure damaged packaging. Collect mechanically, avoiding dust rising. Collected product put in a substitute container and direct to the destruction or re-use.

6.4. Reference to other sections

Disposal - see Section 13. Personal protective equipment - see Section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Do not eat, drink, smoke or take drugs at work. Wash hands before breaks and after working with the product. Wear appropriate personal protective equipment. Take off contaminated clothing and wash before reuse. Ensure adequate ventilation at the workplace with the product. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

7.2. Conditions for safe storage, including any incompatibilities

Keep in properly labelled, factory sealed containers, with a label which complies with current regulations. Store in a cool and dry place. Store in a well-ventilated place. Keep container tightly closed.



SAFETY DATA SHEET

In accordance with the criteria of Regulation No 1907/2006 (REACH) as amended

Quantsil base

Date: 22.03.2022

Revision: -

Page/pages: 4/9

7.3. Specific end use(s)

Used for scientific research and development.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Substance name	TWA	STEL	BLV	Notation
Tetrahydrofuran [CAS: 109-99-9]	150 mg/m ³ (UK/UE)	300 mg/m ³ (UK/UE)	-	skin
Ethylbenzene [CAS: 100-41-4]	441 mg/m ³ (UK) 442 mg/m ³ (UE)	552 mg/m ³ (UK) 884 mg/m ³ (UE)	-	skin

Skin - Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.

Legal basis: Ordinance on maximum permissible concentration and intensity of harmful factors in the work environment in accordance with national limit values.

EH40/2005 Workplace exposure limits, fourth edition, published 2020, ISBN 978 0 7176 6733 8.

Monitoring procedures: Use methods described in European Standards.

8.2. Exposure controls

Mandatory general regulations on occupational health. Do not allow to exceed the normative concentrations of hazardous constituents in the workplace. After work, wash the body surface and clean the personal protective equipment. Do not eat, drink, smoke or take drugs at work. Wash hands and face during breaks and after working with the product. Provide adequate ventilation in the workplace.

Eye/face protection: It is recommended to use appropriate safety glasses according to EN 166.

Skin Protection: It is recommended to use suitable protective gloves in accordance with EN 374.

Respiratory protection: If work takes place in insufficient ventilation conditions, use suitable respiratory protection.

Thermal Hazards: Usually is not required.

Used personal protective equipment should meet the requirements of local/regional/national laws. The employer must provide personal protective equipment appropriate to the type of work and in accordance with all requirements, including maintenance and cleaning.

Concentrations of hazardous substances in the workplace should be monitored in accordance with acknowledged test methods. Mode, method, type and frequency of testing and measurement of harmful factors in the working environment should meet the requirements of local/regional/national laws.

Environmental exposure controls: The large amount of product should not be allowed to penetrate through the ground water, sewage, waste water or soil.

Quantsil base

Date: 22.03.2022

Revision: -

Page/pages: 5/9

SECTION 9: Physical and chemical properties
9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	Colourless
Odour:	Slight
Melting point/freezing point:	Not applicable
Boiling point or initial boiling point and boiling range:	>100 °C
Flammability:	Not applicable
Lower and upper explosion limit:	Not applicable
Flash point:	Pensky-Martens closed cup 121.1 °C
Auto-ignition temperature:	Not applicable
Decomposition temperature:	Not applicable
pH:	Not applicable
Kinematic viscosity:	5000 cSt at 25 °C
Solubility:	Not applicable
Partition coefficient n-octanol/water (log value):	Not applicable
Vapour pressure:	Not applicable
Density and/or relative density:	1.11 (water =1)
Relative vapour density:	Not applicable
Particle characteristics:	Not applicable

9.2. Other information
9.2.1. Information with regard to physical hazard classes

Not specified.

9.2.2. Other safety characteristics

Not specified.

SECTION 10: Stability and reactivity
10.1. Reactivity

Not reactive under normal conditions of use and storage.

10.2. Chemical stability

Stable under normal conditions of storage.

10.3. Possibility of hazardous reactions

Not applicable.

10.4. Conditions to avoid

Not applicable.

10.5. Incompatible materials

Not specified.

10.6. Hazardous decomposition products

None under normal conditions of use and storage.

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.

 ATE_{mix} (inhalation) >20 mg/l



SAFETY DATA SHEET

In accordance with the criteria of Regulation No 1907/2006 (REACH) as amended

Quantsil base

Date: 22.03.2022

Revision: -

Page/pages: 6/9

Ethylbenzene [CAS: 100-41-4]

LD₅₀ (oral, rat) 3500 mg/kg b.w.

LD₅₀ (skin, rabbit) >2000 mg/kg b.w.

LC₅₀ (inhalation, rat) 17.2 mg/l/4 h

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 sensitization: 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

11.2.1. Endocrine disrupting properties

Not specified.

11.2.2. Other information

Inhalation: In the case of alarming symptoms, seek medical advice.

Skin contact: In the case of alarming symptoms, seek medical advice.

Eye contact: In the case of alarming symptoms, seek medical advice.

Ingestion: In the case of alarming symptoms, seek medical advice.

SECTION 12: Ecological information

12.1. Toxicity

Does not meet the criteria of classification as dangerous for the environment.

12.2. Persistence and degradability

Not specified.

12.3. Bioaccumulative potential

Not specified.

12.4. Mobility in soil

Not applicable.

12.5. Results of PBT and vPvB assessment

Not applicable.

12.6. Endocrine disrupting properties

Not specified.

12.7. Other adverse effects

Not specified.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

During removal of waste comply with the regional / national laws.

Community legislation:

- Directive **2008/98/EC** of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives as amended.

- European Parliament and Council Directive **94/62/EC** of 20 December 1994 on packaging and packaging waste as amended.



SAFETY DATA SHEET

In accordance with the criteria of Regulation No 1907/2006 (REACH) as amended

Quantsil base

Date: 22.03.2022

Revision: -

Page/pages: 7/9

Disposal methods for the product: Do not introduce into the environment. Disposal in accordance with the local/national legislation.

Disposal methods for used packing: Empty containers give for appropriate rubbish dump or for disposal in accordance with the local/national legislation. Dispose of uncleanable containers like of the product.

SECTION 14: Transport information

	ADR	RID	AND	IMDG	ICAO TI
14.1. UN number or ID number			Not specified		
14.2. UN proper shipping name			Not specified		
14.3. Transport hazard class(es)			Not specified		
14.4. Packing group			Not specified		
14.5. Environmental hazards			Not specified		
14.6. Special precautions for user	During cargo handling use personal protective equipment - see Section 8.				
14.7. Maritime transport in bulk according to IMO instruments			Not specified		

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC as amended.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 as amended.

Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives as amended.

European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste as amended.

Commission directive 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.



SAFETY DATA SHEET

In accordance with the criteria of Regulation No 1907/2006 (REACH) as amended

Quantsil base

Date: 22.03.2022

Revision: -

Page/pages: 8/9

Commission directive 2006/15/EC of 7 February 2006 establishing a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC.

Commission directive 2009/161/EU of 17 December 2009 establishing a third list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Commission Directive 2000/39/EC.

Commission directive (EU) 2017/164 of 31 January 2017 establishing a fourth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC, and amending Commission Directives 91/322/EEC, 2000/39/EC and 2009/161/EU.

15.2. Chemical safety assessment

The Chemical Safety Assessment has not been performed.

SECTION 16: Other information

The full text of H-statements from Sections 2 and 3:

H225 - Highly flammable liquid and vapour.

H304 - May be fatal if swallowed and enters airways.

H319 - Causes serious eye irritation.

H332 - Harmful if inhaled.

H335 - May cause respiratory irritation.

H351 - Suspected of causing cancer.

H373 - May cause damage to organs through prolonged or repeated exposure.

Key to abbreviations and acronyms:

Acute Tox. 4 - Acute toxicity (inhal.), Hazard Category 4.

Asp. Tox. 1 - Aspiration hazard, Hazard Category 1.

ATE_{mix} - Acute Toxicity Estimate for mixture.

BLV - Biological Limit Value.

Carc. 2 - Carcinogenicity, Hazard Category 2.

Eye Irrit. 2 - Serious eye irritation, Hazard Category 2.

Flam. Liq. 2 - Flammable liquids, Hazard Category 2.

LC₅₀ - Median lethal concentration.

LD₅₀ - Median lethal dose.

STEL - Short-Term Exposure Limit.

STOT RE 2 - Specific target organ toxicity - Repeated exposure, Hazard Category 2.

STOT SE 3 - Specific target organ toxicity - Single exposure, Hazard Category 3, Respiratory tract irritation.

TWA - Time Weighted Average.

Training advice: Before use read the SDS.

Sources of key data:

Information provided electronically.

Safety Data Sheets of the mixture ingredients.

The information above is based on a current available data concerning the product, but also on the experience and knowledge in this field of the producer. They are neither a quality description of the product nor a guarantee of particular features. They are also treated as aid to safety in transport, storage and usage of the product. This does not free the user from the responsibility of improper usage of the information above also of improper compliance with the law norms in the field.



SAFETY DATA SHEET

In accordance with the criteria of Regulation No 1907/2006
(REACH) as amended

Quantsil base

Date: 22.03.2022

Revision: -

Page/pages: 9/9

Prepared by ISOTOP s.c. Consulting Company; www.isotop.pl; e-mail: reach@isotop.pl

This SDS replaces and annuls all the previous versions.