SAFETY DATA SHEET

ØKO Toilet

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

1.1. Product identifier

Trade name
ØKO Toilet

Product no.
9731

Unique formula identifier (UFI)
S20X-4SXU-920Y-RHCG

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

Relevant identified uses of the substance or mixture
Viscous cleaning and descaler.

Use descriptors (UK REACH)

Sectors of use	**Description**
LCS "C"	Consumer uses: Private households (= general public = consumers)
LCS "PW"	Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
Product category	**Description**
PC35	Washing and Cleaning Products (including solvent based products)
Process category	**Description**
PROC8a	Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities
PROC28	Manual maintenance (cleaning and repair) of machinery
Environmental release category	**Description**
ERC8a	Wide dispersive indoor use of processing aids in open systems
ERC8b	Wide dispersive indoor use of reactive substances in open systems

▼Uses advised against
None known.

1.3. Details of the supplier of the safety data sheet

Company and address
Jysk Kemi Service A/S
Gl. Struervej 50
7500 Holstebro
Denmark
+45 9740 3133
+45 9740 4846
www.jyskkemi.dk

Contact person
Rikke Hunskjær

E-mail
rikke@jyskkemi.dk

Revision
08/11/2022

SDS Version
2.0

Date of previous version
24/11/2021 (1.0)

1.4. Emergency telephone number

Contact The National Poisons Information Service (dial 111, 24 h service).

See section 4 “First aid measures”.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Skin Irrit. 2; H315, Causes skin irritation.
Eye Irrit. 2; H319, Causes serious eye irritation.

2.2. Label elements

Hazard pictogram(s)

Signal word

Warning

Hazard statement(s)

Causes skin irritation. (H315)
Causes serious eye irritation. (H319)

Safety statement(s)

General

If medical advice is needed, have product container or label at hand. (P101)
Keep out of reach of children. (P102)

Prevention

Wash hands thoroughly after handling. (P264)

Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338)
If eye irritation persists: Get medical advice/attention. (P337+P313)

Storage

-

Disposal

-

▼Hazardous substances

None known.

▼Additional labelling

UFI: S20X-4SXU-920Y-RHCG

2.3. Other hazards

▼Additional warnings

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.
This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 3: Composition/information on ingredients

3.2. ▼Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
dodecylbenzenesulphonic acid	CAS No.: 27176-87-0 EC No.: 248-289-4 UK-REACH: Index No.:	1-3%	Acute Tox. 4, H302 Skin Corr. 1B, H314	
citric acid	CAS No.: 5949-29-1 EC No.: 201-069-1 UK-REACH: Index No.:	1-3%	Eye Irrit. 2, H319	
orthophosphoric acid	CAS No.: 7664-38-2 EC No.: 231-633-2 UK-REACH: Index No.: 015-011-00-6	<1%	Skin Corr. 1B, H314 (SCL: 25.00 %)	[1]

sulphuric acid	CAS No.: 7664-93-9 EC No.: 231-639-5 UK-REACH: Index No.: 016-020-00-8	<0.05%	Skin Corr. 1A, H314 (SCL: 15.00 %) Skin Irrit. 2, H315 (SCL: 5.00 %) Eye Irrit. 2, H319 (SCL: 5.00 %)	[1]

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

▼Other information

[1] European occupational exposure limit.

Labelling of contents according to Detergents Regulation (EC) No 648/2004 as retained and amended in UK law

< 5%

· Perfumes

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

Skin contact

IF ON SKIN: Wash with plenty of water/water and soap.
Remove contaminated clothing and shoes. Ensure to wash exposed skin thoroughly with water and soap. DO NOT use solvents or thinners.
If skin irritation occurs: Get medical advice/attention.

Eye contact

Upon irritation of the eye: Remove contact lenses. Flush eyes immediately with plenty of water or isotonic water (20-30°C) for at least 5 minutes and continue until irritation stops. Make sure to flush under upper and lower eyelids. If irritation continues, contact a doctor. Continue flushing during transport.

Ingestion

Provide plenty of water for the person to drink and stay with him/her. In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the victim lean forward with head down to avoid inhalation of- or choking on vomited material.

▼Burns

Not applicable.

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

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

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

IF exposed or concerned:
Get immediate medical advice/attention.

Information to medics

Bring this safety data sheet or the label from this product.

SECTION 5: Firefighting measures

5.1. ▼Extinguishing media

Not applicable.

5.2. ▼Special hazards arising from the substance or mixture

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.
If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:
Sulphur oxides
Carbon oxides (CO / CO2)

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid direct contact with spilled substances.

6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc.

6.3. ▼Methods and material for containment and cleaning up

Limit spillage and collect using granular absorbent or similar materials, and dispose of it in accordance with the regulations on dangerous waste.
Use sand, earth, vermiculite, diatomaceous earth to contain and collect non-combustible absorbent materials and place in container for disposal, according to local regulations.
Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

6.4. ▼Reference to other sections

See section 13 “Disposal considerations” on handling of waste.
See section 8 "Exposure controls/personal protection" for protective measures.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Smoking, drinking and consumption of food is not allowed in the work area.
See section 8 "Exposure controls/personal protection" for information on personal protection.

7.2. Conditions for safe storage, including any incompatibilities

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Recommended storage material

Always store in containers of the same material as the original container.

Storage temperature

> 0°C

Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2

SECTION 8: Exposure controls/personal protection

8.1. ▼Control parameters

—
orthophosphoric acid
Long term exposure limit (8 hours) (mg/m³): 1
Short term exposure limit (15 minutes) (mg/m³): 2

—
sulphuric acid
Long term exposure limit (8 hours) (mg/m³): 0,05 (Mist) (Thoraic fraction)
The Control of Substances Hazardous to Health Regulations 2002. SI 2002/2677 The Stationery Office 2002.
EH40/2005 Workplace exposure limits (Fourth Edition 2020).

▼DNEL

orthophosphoric acid

Duration	Route of exposure	DNEL
Long term – Systemic effects - General population	Dermal	0,1 mg/kg legemsvægt/dag
Long term – Local effects - General population	Inhalation	0,36 mg/m³
Long term – Local effects - General population	Inhalation	360 µg/m³
Long term – Local effects - Workers	Inhalation	1 mg/m³
Long term – Local effects - Workers	Inhalation	1 mg/m³
Long term – Systemic effects - General population	Inhalation	4,57 mg/m³

Long term – Systemic effects - General population	Inhalation	4.57 mg/m³
Long term – Systemic effects - Workers	Inhalation	10,7 mg/m³
Long term – Systemic effects - Workers	Inhalation	10.7 mg/m³
Short term – Local effects - Workers	Inhalation	2 mg/m³
Short term – Local effects - Workers	Inhalation	2 mg/m³
Long term – Systemic effects - General population	Oral	100 µg/kgbw/day

sulphuric acid

Duration	Route of exposure	DNEL
Long term – Local effects - Workers	Inhalation	50 µg/m³
Short term – Local effects - Workers	Inhalation	100 µg/m³

▼PNEC

citric acid

Route of exposure	Duration of Exposure	PNEC
Freshwater		0,44 mg/L
Freshwater sediment		3,46 mg/kgbw
Marine water		0,044 mg/L
Marine water sediment		34,6 mg/kgbw
Sewage treatment plant		> 1000 mg/L
Soil		33,1 mg/kgbw

sulphuric acid

Route of exposure	Duration of Exposure	PNEC
Freshwater		0,0025 mg/L
Intermittent release (freshwater)		0,002 mg/kgbw
Intermittent release (marine water)		0,002 mg/kgbw
Marine water		0,25 mg/L
Sewage treatment plant		8,8 mg/L

8.2. ▼Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

General recommendations

Smoking, drinking and consumption of food is not allowed in the work area.

Exposure scenarios

There are no exposure scenarios implemented for this product.

Exposure limits

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

Appropriate technical measures

The formation of vapours must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure emergency eyewash and -showers are clearly marked.

Hygiene measures

Take off contaminated clothing and wash it before reuse.

▼Measures to avoid environmental exposure

No specific requirements.

8.3. Individual protection measures, such as personal protective equipment

▼Generally

Use only UKCA marked protective equipment.

Respiratory Equipment

No specific requirements

▼Skin protection

Recommended	Type/Category	Standards
No special when used as intended.	-	-

Hand protection

Material	Glove thickness (mm)	Breakthrough time (min.)	Standards
Vinyl/PVC	0,12	-	EN374-2

Eye protection

Type	Standards

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state
Liquid

Colour
Pale green

Odour / Odour threshold
Faint

pH
2,1

Density (g/cm³)
1.03

▼Kinematic viscosity
No data available

▼Particle characteristics
Not applicable - product is a liquid

Phase changes

Melting point/Freezing point (°C)
Not applicable - product is a liquid

Softening point/range (waxes and pastes) (°C)
Does not apply to liquids.

▼Boiling point (°C)
100

▼Vapour pressure
No data available

▼Relative vapour density
Testing not relevant or not possible due to the nature of the product.

▼Decomposition temperature (°C)
No data available

Data on fire and explosion hazards

▼Flash point (°C)
Not applicable - flash point > 200°C

▼Ignition (°C)
Not applicable

▼Auto flammability (°C)
Not applicable

▼Lower and upper explosion limit (% v/v)
Testing not relevant or not possible due to the nature of the product.

Solubility

▼Solubility in water
Completely soluble

▼n-octanol/water coefficient
Testing not relevant or not possible due to the nature of the product.

▼Solubility in fat (g/L)

Testing not relevant or not possible due to the nature of the product.

9.2. Other information

▼Evaporation rate (n-butylacetate = 100)

No data available

▼Other physical and chemical parameters

No data available.

SECTION 10: Stability and reactivity

10.1. ▼Reactivity

No data available.

10.2. Chemical stability

The product is stable under the conditions, noted in section 7 “Handling and storage”.

10.3. ▼Possibility of hazardous reactions

None known.

10.4. ▼Conditions to avoid

None known.

10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

10.6. Hazardous decomposition products

The product is not degraded when used as specified in section 1.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 as retained and amended in UK law

▼Acute toxicity

Product/substance	dodecylbenzenesulphonic acid
Test method	
Species	Rat
Route of exposure	Oral
Test	LD50
Result	1150 mg/kg ·
Other information	

Product/substance	citric acid
Test method	
Species	Rat
Route of exposure	Oral
Test	LD50
Result	3000 mg/kg ·
Other information	

Product/substance	orthophosphoric acid
Test method	
Species	Rat
Route of exposure	Inhalation
Test	LC50 (2 hours)
Result	850 mg/L
Other information	

Product/substance	orthophosphoric acid
Test method	
Species	Rabbit
Route of exposure	Dermal
Test	LD50
Result	2740 mg/kg
Other information	

Product/substance	sulphuric acid
Test method	
Species	Rat
Route of exposure	Oral
Test	LD50

Result	2140 mg/kg ·
Other information	

Product/substance	sulphuric acid
Test method	OECD 403
Species	Rat
Route of exposure	Inhalation
Test	LC50 (4 hours)
Result	375 mg/m³
Other information	

Skin corrosion/irritation
Causes skin irritation.

Serious eye damage/irritation
Causes serious eye irritation.

Respiratory sensitisation
Based on available data, the classification criteria are not met.

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

Long term effects
Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

▼Endocrine disrupting properties
None known.

Other information
sulphuric acid has been classified by IARC as a group 1 carcinogen.

SECTION 12: Ecological information

12.1. ▼Toxicity

Product/substance	dodecylbenzenesulphonic acid
Test method	
Species	Fish
Compartment	
Duration	7 days
Test	LC50
Result	1-5 mg/l ·
Other information	

Product/substance	dodecylbenzenesulphonic acid
Test method	
Species	Daphnia
Compartment	
Duration	48 hours
Test	IC50
Result	5-15 mg/l ·
Other information	

Product/substance	citric acid
Test method	

Species	Fish
Compartment	
Duration	7 days
Test	LC50
Result	440-760 mg/l ·
Other information	

Product/substance	citric acid
Test method	
Species	Crustacean
Compartment	
Duration	No data available.
Test	EC50
Result	> 10000 mg/l ·
Other information	

Product/substance	orthophosphoric acid
Test method	
Species	Fish
Compartment	
Duration	7 days
Test	LC50
Result	138 mg/l ·
Other information	

Product/substance	orthophosphoric acid
Test method	
Species	Crustacean
Compartment	
Duration	48 hours
Test	EC50
Result	>100 mg/l ·
Other information	

Product/substance	orthophosphoric acid
Test method	
Species	Algae
Compartment	
Duration	72 hours
Test	NOEC
Result	100 mg/l ·
Other information	

Product/substance	sulphuric acid
Test method	
Species	Fish, Lepomis macrochirus
Compartment	
Duration	96 hours
Test	LC50
Result	16-28 mg/L
Other information	

Product/substance	sulphuric acid
Test method	
Species	Daphnia, Daphnia magna
Compartment	
Duration	48 hours
Test	EC50
Result	> 100 mg/l ·
Other information	

Product/substance	sulphuric acid
Test method	
Species	Crustacean
Compartment	
Duration	120 hours
Test	EC50

Result	58 mg/l ·
Other information	

Product/substance	sulphuric acid
Test method	
Species	Algae, Selenastrum capricornutum
Compartment	
Duration	72 hours
Test	IC50
Result	> 100 mg/L
Other information	

12.2. Persistence and degradability

Product/substance	dodecylbenzenesulphonic acid
Biodegradable	Yes
Test method	OECD 301 D
Result	>70%

Product/substance	citric acid
Biodegradable	Yes
Test method	OECD 301 B
Result	97%

12.3. ▼Bioaccumulative potential

Product/substance	orthophosphoric acid
Test method	
Potential bioaccumulation	No
LogPow	No data available.
BCF	No data available.
Other information	

12.4. ▼Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

12.6. ▼Endocrine disrupting properties

None known.

12.7. ▼Other adverse effects

None known.

SECTION 13: Disposal considerations

▼Waste treatment methods

Product is covered by the regulations on hazardous waste.
Dispose of contents/container to an approved waste disposal plant.
Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.

EWC code

20 01 14*	Acids
Waste Group X	Waste Group X

▼Specific labelling

Not applicable.

Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

SECTION 14: Transport information

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information
ADR	-	-	-	-	-	-
IMDG	-	-	-	-	-	-
IATA	-	-	-	-	-	-

* Packing group
** Environmental hazards

▼Additional information

Not dangerous goods according to ADR, IATA and IMDG.

14.6. ▼Special precautions for user

Not applicable.

14.7. ▼Maritime transport in bulk according to IMO instruments

No data available.

SECTION 15: Regulatory information

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

▼Restrictions for application

None known.

▼Demands for specific education

No specific requirements.

▼SEVESO - Categories / dangerous substances

Not applicable.

Regulation on drug precursors

sulphuric acid is included (Category 3)

▼Regulation on explosives precursors

sulphuric acid (Annex I)

▼Additional information

Not applicable.

▼Sources

Regulation (EC) No 648/2004 on detergents as retained and amended in UK law.
Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.
The Controlled Drugs (Drug Precursors) Regulations 2008.
Council Regulation (EC) No 2019/1148 on explosives precursors as retained and amended in UK law.
Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP) as retained and amended in UK law.
Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) as retained and amended in UK law.

15.2. Chemical safety assessment

No

SECTION 16: Other information

▼Full text of H-phrases as mentioned in section 3

H302, Harmful if swallowed.
H314, Causes severe skin burns and eye damage.
H315, Causes skin irritation.
H319, Causes serious eye irritation.

The full text of identified uses as mentioned in section 1

LCS "C" = Consumer uses: Private households (= general public = consumers)
LCS "PW" = Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
PROC8a = Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities
PROC28 = Manual maintenance (cleaning and repair) of machinery
PC35 = Washing and Cleaning Products (including solvent based products)
ERC8a = Wide dispersive indoor use of processing aids in open systems
ERC8b = Wide dispersive indoor use of reactive substances in open systems

▼Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
CAS = Chemical Abstracts Service
CE = Conformité Européenne
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
CSA = Chemical Safety Assessment

CSR = Chemical Safety Report
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EINECS = European Inventory of Existing Commercial chemical Substances
ES = Exposure Scenario
EUH statement = CLP-specific Hazard statement
EWC = European Waste Catalogue
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IARC = International Agency for Research on Cancer (IARC)
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
OECD = Organisation for Economic Co-operation and Development
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
RRN = REACH Registration Number
SCL = A specific concentration limit
SVHC = Substances of Very High Concern
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure
STOT-SE = Specific Target Organ Toxicity - Single Exposure
TWA = Time weighted average
UN = United Nations
UVBC = Unknown or variable composition, complex reaction products or of biological materials
VOC = Volatile Organic Compound
vPvB = Very Persistent and Very Bioaccumulative

▼Additional information

The classification of the substance/mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.

▼The safety data sheet is validated by

Rikke Hunskjær

Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.
The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.
It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.
Country-language: GB-en