

**SAFETY DATA SHEET****refin dishwasher cleaner 250 ml (FZ0574) EAN7331121504430****SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier****Trade name**

refin dishwasher cleaner 250 ml (FZ0574) EAN7331121504430

**Product no.**

HØ0063

**Unique formula identifier (UFI)**

6U62-807V-G00Q-KXSN

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

Cleaning product

**Uses advised against**

No special

**1.3. Details of the supplier of the safety data sheet****Company and address****Nopa Nordic A/S**

Havrevænget 13

DK-9500 Hobro

Denmark

Tel.: +45 89 122 122

**E-mail**

mail@nopanordic.com

**Revision**

22-02-2022

**SDS Version**

2.0

**Date of previous version**

2022-01-18 (1.0)

**1.4. Emergency telephone number**

Contact the poison hotline: +45 82 12 12 12 (24 hour 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)

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

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

-

##### 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)

IF ON SKIN: Wash with plenty of water/water and soap. (P302+P352)

##### Storage

-

##### Disposal

-

#### Hazardous substances

No special

#### 2.3. Other hazards

##### Additional labelling

Not applicable

##### Additional warnings

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

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
citric acid	CAS No.: 77-92-9 EC No.: 201-069-1 REACH: Index No.:	15-25%	Eye Irrit. 2, H319 STOT SE 3, H335	
Alcohols,C12-18,ethoxylated,and,propoxylated	CAS No.: 69227-21-0 EC No.: 500-242-1 REACH: Index No.:	5-10%	Eye Irrit. 2, H319	
lactic acid	CAS No.: 50-21-5 EC No.: 200-018-0 REACH: Index No.:	1-3%	Skin Corr. 1C, H314 Eye Dam. 1, H318	
Sodium,p-cumenesulphonate	CAS No.: 15763-76-5 EC No.: 239-854-6	1-3%	Eye Irrit. 2, H319	

	REACH:		
	Index No.:		
sodium hydroxide	CAS No.: 1310-73-2	<1%	Skin Corr. 1A, H314
	EC No.: 215-185-5		
	REACH: 01-2119457892-27		
	Index No.: 011-002-00-6		

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

#### Other information

No special

#### Labelling of contents according to Detergents Regulation (EC) No 648/2004

5% - 15%

- Non-ionic surfactants

< 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:

Carbon oxides (CO / CO<sub>2</sub>).

#### 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

Use sand, earth, vermiculite, diatomaceous earth to contain and collect non-combustible absorbent materials and place in container for disposal, according to local regulations.

To the extent possible cleaning is performed with normal cleaning agents. Avoid use of solvents.

#### 6.4. Reference to other sections

See section 13 on "Disposal considerations" in regard of 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

At 5-25 °C and away from sunlight

##### 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

—  
sodium hydroxide

Long term exposure limit (8 hours) (mg/m<sup>3</sup>): 2

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Annotations:

L = The limit is a ceiling value that at no time may be exceeded.

Statutory order 1426 on exposure limits for substances and mixtures (28/06/2021)

#### DNEL

No data available

#### PNEC

No data available

#### 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

#### Individual protection measures, such as personal protective equipment

##### Generally

No specific requirements

##### Respiratory Equipment

No specific requirements

##### Skin protection

No specific requirements

##### Hand protection

No specific requirements

##### Eye protection

No specific requirements

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

#### Physical state

Liquid

#### Colour

Blue

#### Odour / Odour threshold

Pleasant

#### pH

2,3

#### Density (g/cm<sup>3</sup>)

1.093

#### Kinematic viscosity

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

#### Particle characteristics

Does not apply to liquids.

#### Phase changes

**Melting point/Freezing point (°C)**

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

**Softening point/range (waxes and pastes) (°C)**

Does not apply to liquids.

**Boiling point (°C)**

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

**Vapour pressure**

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

**Relative vapour density**

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

**Decomposition temperature (°C)**

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

**Data on fire and explosion hazards****Flash point (°C)**

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

**Ignition (°C)**

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

**Auto flammability (°C)**

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

**Lower and upper explosion limit (% v/v)**

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

**Solubility****Solubility in water**

Soluble

**n-octanol/water coefficient**

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

**Solubility in fat (g/L)**

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

**9.2. Other information****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**

No special

**10.4. Conditions to avoid**

No special

**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****Acute toxicity**

Product/substance      citric acid

Test method

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Species	
Route of exposure	Dermal
Test	LD50
Result	>2000 mg/kg ·
Other information	

Product/substance	citric acid
Test method	
Species	
Route of exposure	Oral
Test	LD50
Result	5400 mg/kg ·
Other information	

Product/substance	Alcohols,C12-18,ethoxylated,and,propoxylated
Test method	
Species	Rat
Route of exposure	Oral
Test	LD50
Result	>2000 mg/kg ·
Other information	

Product/substance	sodium hydroxide
Test method	
Species	Rat
Route of exposure	Oral
Test	LD50
Result	325 mg/kg ·
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

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

**Endocrine disrupting properties**

No special

**Other information**

No special

## SECTION 12: Ecological information

### 12.1. Toxicity

Product/substance	citric acid
Test method	
Species	Algae
Compartment	
Duration	8 d.
Test	NOEC
Result	425 mg/l ·
Other information	

Product/substance	citric acid
Test method	
Species	Daphnia
Compartment	
Duration	24 hours
Test	LC50
Result	1535 mg/l ·
Other information	

Product/substance	citric acid
Test method	
Species	Fish
Compartment	
Duration	48 hours
Test	LC50
Result	440 mg/l ·
Other information	

Product/substance	Alcohols,C12-18,ethoxylated,and,propoxylated
Test method	
Species	Fish
Compartment	
Duration	96 hours
Test	LC50
Result	1-10 mg/l ·
Other information	

Product/substance	Alcohols,C12-18,ethoxylated,and,propoxylated
Test method	
Species	Daphnia
Compartment	
Duration	48 hours
Test	EC50



According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Result 1-10 mg/l ·  
Other information

Product/substance Alcohols,C12-18,ethoxylated,and,propoxylated  
Test method  
Species Algae  
Compartment  
Duration 72 hours  
Test EC50  
Result 10-100 mg/l ·  
Other information

Product/substance lactic acid  
Test method  
Species Fish  
Compartment  
Duration 96 hours  
Test LC50  
Result 320 mg/l ·  
Other information

Product/substance lactic acid  
Test method  
Species Daphnia  
Compartment  
Duration 48 hours  
Test EC50  
Result 240 mg/l ·  
Other information

Product/substance lactic acid  
Test method  
Species Algae  
Compartment  
Duration 72 hours  
Test IC50  
Result 3500 mg/l ·  
Other information

Product/substance Sodium,p-cumenesulphonate  
Test method  
Species Fish  
Compartment  
Duration 96 hours  
Test LC50  
Result >100 mg/l ·  
Other information

Product/substance Sodium,p-cumenesulphonate  
Test method  
Species Daphnia  
Compartment

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

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Duration 48 hours  
 Test EC50  
 Result >100 mg/l ·  
 Other information

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Product/substance Sodium,p-cumenesulphonate  
 Test method  
 Species Algae  
 Compartment  
 Duration 72 hours  
 Test EC50  
 Result >100 mg/l ·  
 Other information

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Product/substance Sodium,p-cumenesulphonate  
 Test method  
 Species  
 Compartment  
 Duration 3 hours  
 Test EC50  
 Result >1000 mg/l ·  
 Other information

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Product/substance sodium hydroxide  
 Test method  
 Species Daphnia  
 Compartment  
 Duration 24 hours  
 Test EC50  
 Result 76,0 mg/l ·  
 Other information

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Product/substance sodium hydroxide  
 Test method  
 Species Fish  
 Compartment  
 Duration 96 hours  
 Test LC50  
 Result 125 mg/l ·  
 Other information

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Product/substance sodium hydroxide  
 Test method  
 Species Fish  
 Compartment  
 Duration 24 hours  
 Test LC50  
 Result 145 mg/l ·  
 Other information

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Product/substance sodium hydroxide  
 Test method

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Species	
Compartment	
Duration	15 min.
Test	EC50
Result	22 mg/l ·
Other information	

## 12.2. Persistence and degradability

Product/substance	citric acid
Biodegradable	Yes
Test method	
Result	

Product/substance	Alcohols,C12-18,ethoxylated,and,propoxylated
Biodegradable	Yes
Test method	
Result	

Product/substance	lactic acid
Biodegradable	Yes
Test method	
Result	

Product/substance	Sodium,p-cumenesulphonate
Biodegradable	Yes
Test method	
Result	

Product/substance	sodium hydroxide
Biodegradable	Yes
Test method	
Result	

## 12.3. Bioaccumulative potential

Product/substance	citric acid
Test method	
Potential bioaccumulation	No
LogPow	-1,7200
BCF	No data available
Other information	

Product/substance	sodium hydroxide
Test method	
Potential bioaccumulation	No
LogPow	No data available
BCF	No data available
Other information	

## 12.4. Mobility in soil

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

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

No special

#### 12.7. Other adverse effects

No special

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Product is covered by the regulations on hazardous waste.

HP 4 - Irritant (skin irritation and eye damage)

Dispose of contents/container to an approved waste disposal plant.

Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

#### EWC code

20 01 30 Detergents other than those mentioned in 20 01 29

#### 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. - 14.4.

Not dangerous goods according to ADR, IATA and IMDG.

#### ADR/RID

Not applicable

#### IMDG

Not applicable

#### MARINE POLLUTANT

No

#### IATA

Not applicable

#### 14.5. Environmental hazards

Not applicable

#### 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

No special

##### Demands for specific education

No specific requirements

##### SEVESO - Categories / dangerous substances

Not applicable

##### Additional information

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the

competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

#### Sources

Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents.

Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

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 (CLP).

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).

#### 15.2. Chemical safety assessment

No

### SECTION 16: Other information

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

H314, Causes severe skin burns and eye damage.

H318, Causes serious eye damage.

H319, Causes serious eye irritation.

H335, May cause respiratory irritation.

#### 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

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

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UVCB = Complex hydrocarbon substance  
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)

The safety data sheet is validated by

peb@nopanordic.com

#### 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: DK-en