

SAFETY DATA SHEET

## Maskinrens

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

1.1. Product identifier

Trade name

Maskinrens

Product no.

- 960
- 1.2. Relevant identified uses of the substance or mixture and uses advised against Relevant identified uses of the substance or mixture

## Descaler

## Use descriptors (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
PROC 8a	Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities
PROC 19	Hand-mixing with intimate contact and only PPE available
PROC 28	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

No special

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
17-11-2021
SDS Version
2.0
Date of previous version
2021-05-10 (1.0)
1.4. Emergency telephone number
Contact The National Poisons Information Service (dial 111, 24 h service).
See section 4 "First aid measures".
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#### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Skin Corr. 1; H314, Causes severe skin burns and eye damage.

Eye Dam. 1; H318, Causes serious eye damage.

#### 2.2. Label elements

Hazard pictogram(s)



Signal word

Danger

#### Hazard statement(s)

Causes severe skin burns and eye damage. (H314)

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

Wear eye protection / protective gloves. (P280)

▼ Response

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. (P303+P361+P353)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338)

Storage

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▼ Disposal
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Dispose of contents/container to an approved waste disposal plant. (P501)

#### ▼ Hazardous substances

orthophosphoric acid

hydrogen chloride

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2.3. Other hazards
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## 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
orthophosphoric acid	CAS No.: 7664-38-2 EC No.: 231-633-2 REACH: 01-2119485924-24- xxxx Index No.: 015-011-00-6	5-10%	Skin Corr. 1B, H314 (SCL: 25.00 %)	[1]
citric acid	CAS No.: 5949-29-1 EC No.: 201-069-1 REACH: 01-2119457026-42- xxxx Index No.:	3-5%	Eye Irrit. 2, H319	
hydrogen chloride	CAS No.: 7647-01-0 EC No.: 231-595-7 REACH: 01-2119484862-27- xxxx Index No.: 017-002-00-2	<1%	Skin Corr. 1B, H314 (SCL: 25.00 %) STOT SE 3, H335 (SCL: 10.00 %)	[1]

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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

[1] European occupational exposure limit

#### 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

Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. 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 with plenty of water or salt water (20-30°C) for at least 15 minutes and continue until irritation stops. Make sure you flush under the upper and lower eyelids. Seek medical assistance immediately and continue flushing during transport.



#### Ingestion

In the case of ingestion, contact a doctor immediately. If the person is conscious, give them water. DO NOT try to induce vomiting, unless this is recommended by a doctor. Hold head facing down to prevent vomit returning mouth and throat. Prevent shock by keeping the injured person warm and calm. Initiate immediate resuscitation if breathing stops. If unconscious, roll the injured person into recovery position. Call an ambulance.

Burns

Not applicable

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

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, -irritations and burns in the respiratory organs -as well as coughing. Dermal contact and contact with the eye cause irreversible 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.

#### 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 / 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

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



Avoid direct contact with the product. 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

hydrogen chloride Long term exposure limit (8 hours) (ppm): 1 Long term exposure limit (8 hours) (mg/m<sup>3</sup>): 2 Short term exposure limit (15 minutes) (ppm): 5 Short term exposure limit (15 minutes) (mg/m<sup>3</sup>): 8

The Control of Substances Hazardous to Health Regulations 2002. SI 2002/2677 The Stationery Office 2002. EH40/2005 Workplace exposure limits (Fourth Edition 2020)

#### **V**DNEL

Product/substance	orthophosphoric acid
DNEL	0,1 mg/kg legemsvægt/dag
Route of exposure	Dermal
Duration	Long term – Systemic effects - General population
Product/substance	orthophosphoric acid
DNEL	1 mg/m³
Route of exposure	Inhalation
Duration	Long term – Local effects - Workers
Product/substance	orthophosphoric acid
DNEL	10,7 mg/m³
Route of exposure	Inhalation
Duration	Long term – Systemic effects - Workers
Product/substance	orthophosphoric acid
DNEL	0,36 mg/m³
Route of exposure	Inhalation
Duration	Long term – Local effects - General population



Product/substance	orthophosphoric acid
DNEL	4,57 mg/m <sup>3</sup>
Route of exposure	Inhalation
Duration	Long term – Systemic effects - General population
Burution	
Product/substance	orthophosphoric acid
DNEL	2 mg/m³
Route of exposure	Inhalation
Duration	Short term – Local effects - Workers
PNEC	
Product/substance	citric acid
PNEC	> 1000 mg/L
Route of exposure	Sewage treatment plant
Duration of Exposure	
Product/substance	citric acid
PNEC	34,6 mg/kgbw
Route of exposure	Marine water sediment
Duration of Exposure	
Product/substance	citric acid
PNEC	3,46 mg/kgbw
Route of exposure	Freshwater sediment
Duration of Exposure	
Product/substance	citric acid
PNEC	0,044 mg/L
Route of exposure	Marine water
Duration of Exposure	
Product/substance	citric acid
PNEC	0,44 mg/L
Route of exposure	Freshwater
Duration of Exposure	
Product/substance	citric acid
PNEC	33,1 mg/kgbw
Route of exposure	Soil
Duration of Exposure	

#### 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

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Always wash hands, forearms and face.

#### Measures to avoid environmental exposure

Keep damming materials near the workplace. If possible, collect spillage during work.

Individual protection measures, such as personal protective equipment

#### Generally

Wash contaminated clothing before reuse.

Use only CE 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 - Discard immediately after use	0.12	-	EN374-2	11/27

#### Eye protection

Туре	Standards	
Wear safety glasse side shields.	s with EN166	

#### SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Liquid Colour Pale yellow Odour / Odour threshold Faint pH 1 Density (g/cm<sup>3</sup>) 1.10 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 (q/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 orthophosphoric acid Test method Rabbit Species Dermal Route of exposure LD50 Test 2740 mg/kg Result 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 citric acid Test method Rat Species Route of exposure Oral LD50 Test 3000 mg/kg · Result Other information Product/substance hydrogen chloride Test method Species Rat Inhalation Route of exposure Test LC50 3124 ppm · Result Other information Skin corrosion/irritation Causes severe skin burns and eye damage. Serious eye damage/irritation Causes serious eye damage. **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

## No special

## Other information

hydrogen chloride has been classified by IARC as a group 3 carcinogen.

## SECTION 12: Ecological information

## 12.1. Toxicity

Product/substance Test method	orthophosphoric acid
Species Compartment	Fish
Duration	7 days
Test	LC50
Result	138 mg/l ·
Other information	
Product/substance Test method	orthophosphoric acid
Species	Crustacean
Compartment	
Duration	48 hours
Test	EC50
Result	>100 mg/l ·
Other information	
Product/substance Test method	orthophosphoric acid
Species Compartment	Algae
Duration	72 hours
Test	NOEC
Result	100 mg/l ·
Other information	
Product/substance Test method	citric acid
Species Compartment	Crustacean
Duration	No data available.
Test	EC50
Result	> 10000 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	

#### 12.2. Persistence and degradability

citric acid
Yes
OECD 301 B
97%

#### 12.3. Bioaccumulative potential

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

No data available

No data available

## Other information

## 12.4. Mobility in soil

LogPow BCF

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

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.

SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Product is covered by the regulations on hazardous waste.



HP 8 – Corrosive Avoid discharge to lakes, streams, sewers, etc. 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 14\* Acids

## 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.

This product is within scope of the regulations of transport of dangerous goods.

#### ADR/RID

UN- or ID number	UN proper shipping name	Labels	Packing group	Tunnel restriction code
1760	CORROSIVE LIQUID, N.O.S. (orthophosphoric acid)	8	III	3 (E)

#### IMDG

UN- or ID number	UN proper shipping name	Labels	Packing group	EmS
1760	CORROSIVE LIQUID, N.O.S. (orthophosphoric acid)	8	III	F-A, S-B

#### MARINE POLLUTANT

### No

## IATA

UN- or ID number	UN proper shipping name	Labels	Packing group
1760	CORROSIVE LIQUID, N.O.S. (orthophosphoric acid)	8	III

## 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

People under the age of 18 shall not be exposed to this product.

#### Demands for specific education

## No specific requirements



#### SEVESO - Categories / dangerous substances

hydrogen chloride

Regulation on drug precursors

hydrogen chloride is included (Category 3)

Additional information

#### Tactile warning.

If this product is sold in retail, it must be delivered with child-resistant fastening.

#### Sources

The Management of Health and Safety at Work Regulations 1999

Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents. Control of Major Accident Hazards (COMAH) Regulations 2015.

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

Council Regulation (EC) No 272/2004 on drug progureors

Council Regulation (EC) No 273/2004 on drug precursors.

EC-Regulation 1907/2006 (REACH), as amended by UK REACH Regulations SI 2019/758

#### 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.

H319, Causes serious eye irritation.

H335, May cause respiratory 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)

PROC 8a = Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at nondedicated facilities

PROC 19 = Hand-mixing with intimate contact and only PPE available

PROC 28 = 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 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 classification of the substance/mixture in regard of skin corrosion and serious eye damage is based on the pH-criterion given by Regulation (EC) No. 1272/2008 (CLP)

### The safety data sheet is validated by

RH 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