Trade name: KRONES hydrocare 3901

Current version: 1.0.2, issued: 08.04.2022 Reglaced version: 1.0.1, issued: 08.06.2021 Region: GB

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

#### 1.1 Product identifier

Trade name

## **KRONES hydrocare 3901**

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

## Relevant identified uses of the substance or mixture

membrane cleaner

## Uses advised against

No data available.

## 1.3 Details of the supplier of the safety data sheet

#### Address

KIC KRONES Internationale Cooperationsgesellschaft mbH

Böhmerwaldstraße 5 93073 Neutraubling

Telephone no. +49 9401 70-3020 e-mail kic@kic-krones.com

## **Advice on Safety Data Sheet**

sdb info@umco.de

## 1.4 Emergency telephone number

For medical advice (in German and English):

+49 (0)551 192 40 (Giftinformationszentrum Nord)

In case of transport incidents and other emergencies:

+44 (0) 1235 239 670 (NCEC, National Chemical Emergency Centre)

## **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

## Classification in accordance with Regulation (EC) No 1272/2008 (CLP)

Acute Tox. 3; H331 Eye Dam. 1; H318 Met. Corr. 1; H290 Skin Corr. 1A; H314

## **Classification information**

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

#### 2.2 Label elements

## Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)

## **Hazard pictograms**







GHS05

## Signal word

Danger

## Hazardous component(s) to be indicated on label:

nitric acid ...% [C > 70 %]

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Hazard statement(s)

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

H331 Toxic if inhaled.

Hazard statements (EU)

EUH071 Corrosive to the respiratory tract.

Precautionary statement(s)

P260 Do not breathe mist/vapours/spray.
P264 Wash hands thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

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

for showerl.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

## 2.3 Other hazards

No data available.

## **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances

Not applicable. The product is not a substance.

#### 3.2 Mixtures

**Hazardous ingredients** 

No	Substance name		Addit	ional informatio	n	
	CAS / EC / Index /	Classification (EC) 1272/2008 (CLP)	Conc	entration		%
	REACH no					
1	nitric acid% [C >	70 %]	pls. r	efer to footnote	(2)	
	7697-37-2	Ox. Liq. 2; H272	>=	50.00 - <	70.00	wt%
	231-714-2	Met. Corr. 1; H290				
	007-004-00-1	Acute Tox. 3; H331				
	01-2119487297-23	Skin Corr. 1A; H314				
		Eye Dam. 1; H318				
		EUH071				

Full Text for all H-phrases and EUH-phrases: pls. see section 16

<sup>(2)</sup> According to the latest state of knowledge and applying the criteria set out in annex I to Regulation (EC) No 1272/2008, the aforementioned classification is required. This classification goes beyond the classification set out in table 3, Annex VI to Regulation (CE) No 1272/2008.

No	Note	Specific concentration limits	M-factor	M-factor
			(acute)	(chronic)
1	В	Skin Irrit. 2; H315: C >= 1%	-	-
		Skin Corr. 1B; H314: C >= 5%		
		Skin Corr. 1A; H314: C >= 20%		
		Ox. Liq. 3; H272: C >= 65%		
		Ox. Liq. 2; H272: C >= 99%		

Full text for the notes: pls. see section 16 "Notes relating to the identification, classification and labelling of substances ((EC) No 1272/2008, Annex VI)".

Acu	Acute toxicity estimate (ATE) values				
No	oral	dermal	inhalative		
1			2,66 mg/l		

## **SECTION 4: First aid measures**

## 4.1 Description of first aid measures

#### **General information**

Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing.

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#### After inhalation

Remove affected persons from dangerous area by observing suitable respiratory protection measures. Ensure supply of fresh air. Call a doctor immediately.

#### After skin contact

When in contact with the skin, clean with soap and water. Call a doctor immediately.

#### After eye contact

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). Get immediate ophthalmic treatment.

#### After ingestion

Rinse the mouth thoroughly with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor immediately.

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

## **Symptoms**

hurns

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

Treat symptomatically

## **SECTION 5: Firefighting measures**

## 5.1 Extinguishing media

#### Suitable extinguishing media

No data available.

#### Unsuitable extinguishing media

High power water jet

## 5.2 Special hazards arising from the substance or mixture

In the event of fire, the following can be released: Pyrolysis products; Toxic gases/vapours; Nitrogen oxides (NOx)

## 5.3 Advice for firefighters

Use self-contained breathing apparatus. Wear protective clothing. Do not inhale explosion and/or combustion byproducts. Cool closed containers exposed to fire with water. Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

## **SECTION 6: Accidental release measures**

## 6.1 Personal precautions, protective equipment and emergency procedures

## For non-emergency personnel

Refer to protective measures listed in sections 7 and 8. Ensure adequate ventilation. Remove persons to safety.

#### For emergency responders

Personal protective equipment (PPE) - see section 8.

## 6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

## 6.3 Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13).

## 6.4 Reference to other sections

Information regarding safe handling, see section 7. Information regarding personal protective measures, see section 8. Information regarding waste disposal, see section 13.

## **SECTION 7: Handling and storage**

## 7.1 Precautions for safe handling

Advice on safe handling

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Risks inherent to handling the product must be minimised by applying the appropriate protective and preventive measures. Working processes should - so far as possible, according to the state of the art - be designed to rule out bodily contact or the release of hazardous substances. Avoid eye, skin and clothing contact. Provide good ventilation at the work area (local exhaust ventilation, if necessary).

## General protective and hygiene measures

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Do not inhale vapours. Avoid contact with eyes and skin. Wash hands before breaks and after work. Remove contaminated clothing and shoes and launder thoroughly before reusing. Provide eye wash fountain in work area. Have emergency shower available.

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

#### Technical measures and storage conditions

Keep container tightly closed and dry in a cool, well-ventilated place. Protect from heat and direct sunlight.

#### Requirements for storage rooms and vessels

Containers which are opened must be carefully closed and kept upright to prevent leakage. Always keep in containers of same material as the original. Provide acid-resistant floor.

## Incompatible products

Substances to be avoided, see section 10. Do not store together with: Reducing agents; combustible materials; Metals; Alkalies

## 7.3 Specific end use(s)

No data available.

## **SECTION 8: Exposure controls/personal protection**

## 8.1 Control parameters

## Occupational exposure limit values

No	Substance name	CAS no.		EC no.	
1	nitric acid% [C > 70 %]	7697-37-2		231-714-2	
	2006/15/EC				
	Nitric acid				
	WEL short-term (15 min reference period)	2.6	mg/m³	1	ppm
	List of approved workplace exposure limits (WELs) / E	H40			
	Nitric acid				
	WEL short-term (15 min reference period)	2.6	mg/m³	1	ppm

#### **DNEL, DMEL and PNEC values**

#### **DNEL** values (worker)

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	nitric acid% [C > 70 %]		7697-37-2		
				231-714-2	
	inhalative	Long term (chronic)	local	2.6	mg/m³

## DNEL value (consumer)

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	nitric acid% [C > 70 %]		7697-37-2		
				231-714-2	
	inhalative	Long term (chronic)	local	1.3	mg/m³

## 8.2 Exposure controls

## Appropriate engineering controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL (=Occupational Exposure Limit), suitable respiratory protection must be worn.

## Personal protective equipment

## Respiratory protection

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If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

Respirator ABEKP2

## Eye / face protection

Safety glasses with side protection shield (EN 166)

## Hand protection

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific workstation suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Appropriate Material butyl rubber Material thickness 0.7 mm Breakthrough time 480 min Appropriate Material viton Material thickness 0.7 mm Breakthrough time 480 min Appropriate Material chloroprene Material thickness 0.5 mm Breakthrough time 480 min

#### Other

Chemical-resistant work clothes.

## **Environmental exposure controls**

No data available.

## **SECTION 9: Physical and chemical properties**

## 9.1 Information on basic physical and chemical properties

State of aggregation			
liquid			
Form/Colour			
liquid			
colourless			
Odour			
pungent			
pH value			
Value		1	
Boiling point / boiling range			
Value	>	100	°C
Melting point/freezing point			
Value	<	0	°C
Decomposition temperature			
No data available			
Flash point			
No data available			
Ignition temperature			
No data available			
Auto-ignition temperature			
Comments	Product is not self	igniting.	
Flammability			
No data available			

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Lower explosion limit

No data available

Upper explosion limit

No data available

Vapour pressure

No data available

Relative vapour density

No data available

Relative density

No data available

Density

Value 1.3 g/ml Reference temperature 20 °C

Solubility in water

Completely miscible

Solubility

No data available

Partition coefficient n-octanol/water (log value)

No data available

Viscosity

No data available

**Particle characteristics** 

No data available

## 9.2 Other information

## Other information

No data available.

## **SECTION 10: Stability and reactivity**

## 10.1 Reactivity

Stable at ambient temperature.

## 10.2 Chemical stability

Stable under recommended storage and handling conditions (See section 7).

## 10.3 Possibility of hazardous reactions

Dangerous reactions are not to be expected when handling product according to its intended use.

## 10.4 Conditions to avoid

Heat, naked flames and other ignition sources. Protect from light.

## 10.5 Incompatible materials

Reducing agents; Alkalies; Metals

#### 10.6 Hazardous decomposition products

Nitrous oxides (NOx); Corrosive gases/vapours

## **SECTION 11: Toxicological information**

## 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute ora	al toxicity
-----------	-------------

No data available

#### Acute dermal toxicity

No data available

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Acute inhalational toxicity (result of the ATE calculation for the mixture)				
No Product Name	Product Name			
1 KRONES hydrocare	901			
ATE (Mixture)	5.0189			
Route of exposure / physic	l from Vapour			
Method	Calculation method according Regulation (EC) No 1272/2008,			
	(CLP), annex I, part 3, section 3.1.3.6.			

Acute	inhalational toxicity					
No S	Substance name		CAS no.		EC no.	
1 n	itric acid% [C > 70 %]		7697-37-2		231-714-2	
LC50		>		2.65	mg/l	
Duratio	on of exposure			4	h	
State o	of aggregation	Vapour				
Specie	es ·	rat				
Method	d	OECD 403				
Source	e	ECHA				

Skin corrosion/irritation	
No data available	

# Serious eye damage/irritation No data available

# Respiratory or skin sensitisation No data available

Germ cell mutagenicity	
No data available	

Reproduction toxicity	
No data available	

Carcinogenicity	
No data available	

STOT - single exposure	
No data available	

STOT - repeated exposure	
No data available	

Aspiration hazard	
No data available	

## 11.2 Information on other hazards

**Endocrine disrupting properties** 

No data available.

Other information

No data available.

## SECTION 12: Ecological information

## 12.1 Toxicity

Toxicity to fish (acute)	
No data available	

# Toxicity to fish (chronic) No data available

Toxicity to Daphnia (acute)	
No data available	

Toxicity to Daphnia (chronic	
No data available	

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## Toxicity to algae (acute)

No data available

## Toxicity to algae (chronic)

No data available

#### **Bacteria toxicity**

No data available

## 12.2 Persistence and degradability

No data available.

## 12.3 Bioaccumulative potential

No data available.

## 12.4 Mobility in soil

No data available.

## 12.5 Results of PBT and vPvB assessment

No data available.

## 12.6 Endocrine disrupting properties

No data available.

#### 12.7 Other adverse effects

No data available.

#### 12.8 Other information

#### Other information

Do not discharge product unmonitored into the environment.

## **SECTION 13: Disposal considerations**

## 13.1 Waste treatment methods

## **Product**

Disposal of the product should be carried out in accordance with all applicable regulations following consultation with the responsible local authority and the disposal company in an authorised and suitable disposal facility.

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

#### Packaging

Residues must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

## **SECTION 14: Transport information**

## 14.1 Transport ADR/RID/ADN

Class 8
Classification code C1
Packing group II
Hazard identification no. 80
UN number UN2031
Proper shipping name NITRIC ACID

Tunnel restriction code E Label 8

## 14.2 Transport IMDG

Class 8
Packing group II
UN number UN2031
Proper shipping name NITRIC ACID
EmS F-A, S-B
Label 8

## 14.3 Transport ICAO-TI / IATA

Trade name: KRONES hydrocare 3901

Current version: 1.0.2, issued: 08.04.2022 Replaced version: 1.0.1, issued: 08.06.2021 Region: GB

Class 8 Packing group II

UN number UN2031
Proper shipping name Nitric acid

Label

## 14.4 Other information

No data available.

#### 14.5 Environmental hazards

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

#### 14.6 Special precautions for user

No data available.

## 14.7 Maritime transport in bulk according to IMO instruments

Not relevant

## **SECTION 15: Regulatory information**

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

## Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

## REACH candidate list of substances of very high concern (SVHC) for authorisation

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

# Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES

The product is considered being subject to REACH regulation (EC) 1907/2006 annex XVII. No 3

The product contains following substance(s) that are considered being subject to REACH regulation (EC) 1907/2006 annex XVII.

No	Substance name	CAS no.	EC no.	No	
1	nitric acid% [C > 70 %]	7697-37-2	231-714-2	75	

# Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances

## This product is subject to Part I of Annex I, risk category:

Other regulations

Adhere to the national sanitary and occupational safety regulations when using this product.

## 15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this mixture.

## **SECTION 16: Other information**

#### Sources of key data used to compile the data sheet:

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.

# Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)

H272 May intensify fire; oxidiser. H318 Causes serious eye damage.

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# Notes relating to the identification, classification and labelling of substances and mixtures ((EC) No 1272/2008, Annex VI)

В

Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different classification and labelling since the hazards vary at different concentrations. In Part 3 entries with Note B have a general designation of the following type: 'nitric acid ... %'. In this case the supplier must state the percentage concentration of the solution on the label. Unless otherwise stated, it is assumed that the percentage concentration is calculated on a weight/weight basis

## Creation of the safety data sheet

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This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

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