

## Safety data sheet according to 1907/2006 chapter 31

print: 23.3.2020

version 2

status: 23.3.2020

### 1: Description of the Preparation

#### 1.1: Article description: ECO Disinfect

Registrationnumber 74492

#### 1.2: Application of the preparation: desinfection of surfaces against viruses especially also Corona viruses

#### 1.3: Supplier:

Rudolf Koller GmbH  
A-3902  
Vitis Niederösterreich  
Rudolf-Koller-Straße 1  
Fon+43 2841 8207  
Fax+43 2841 8221  
office.vitis@rkoller.com  
Poison control center of „Gesundheit Österreich GmbH“  
Emergency call +43 1 406 43 43

1.4: Technical information: office.vitis@rkoller.com

1.5: Information about SDS: office.vitis@rkoller.com

1.6: Emergency information: +43 2841 8207 (Mo-Fr 8:00-16:00)

### 2: Possible Hazards- GHS Classification

2.1: Classification of the preparation: according to (EG) Nr 1272/2008: CLP not rated  
active biocide: 0,2 bis 0,4 g/l (0,02 bis 0,04 %)  
EUH031 sets free toxic gases in contact with acids  
be careful with biocides; first study labelling and product information  
no specific dangers known

2.2: Labelling according to (EG) Nr. 1272/2008 not necessary

#### 2.3: Additional information to risks:

Contains no Polybutylenterephthalate (PBT) or other persistent, bioaccumulation (vPvB) substances

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### 3: Composition / information about components

#### 3.1: Composition

Preparation

#### 3.2: Chemical characterisation

Description: aqueous solution of following non rated First Aid components

Component	Description	Content	GHS
EG-Nr (EINECS): 231-668-3 CAS: 7681-52-9	"active Chlorine from Sodium-chloride by electrolysis"	> 0,01% - < 0,1%	H290 EUH031 P410 + P412
EG-Nr (EINECS): 231-598-3 CAS: 7647-14-5	Sodiumchloride	> 0,1% - < 1,0%	

additional advice: max. MAK-values chapter 8  
dermatologically tested, no skin change HET-CAM Test 0

### 4: First Aid

#### 4.1: First Aid Measures:

General: no special measures, consult doctor in case of complaints  
after eye contact: after irritation spill eyes careful  
after skin contact: flush with plenty of water  
if swallowed : wash out mouth thoroughly and drink a large amount of water  
after inhaling : after irritation, bring the affected person into the fresh air. :

**4.2: Important acute and delayed symptoms and effects:** no information

**4.3: Information for the doctor:** Treat symptomatically, let show Safety data sheet

### 5: Fire fighting measures

#### 5.1: Extinguishing agent

Suitable extinguishing media: The product itself is not flammable  
Choose fire-fighting measures suitable for environment fire

**5.2: Special hazards arising from the substance or mixture:**  
Traces of chlorine gas can occur

**5.3: Advices for firefighting:** no special additional measures

### 6.: Measures for unintended release

#### 6.1: Personal precautions, protective equipment, emergency measures

Follow the usual caution measures while dealing with chemicals.  
No special measures

#### 6.2: Environmental measures:

After release to the environment flush with plenty of water

#### 6.3: Methods and material for containment and cleaning up:

Absorb with liquid binding material and dispose of it properly.

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### 6.4: Additional advices

See chapters 8 and 13

## 7: Handling and Storage

### 7.1. Precautions for safe handling

Advices for safe handling secure good ventilation of the working room and storage

Precautions against fire and explosion product does not combust and does not explode

In case of correct use there are no special measures necessary

During filling and pouring wear protective glasses

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

Requirements for storage facilities and containers: keep only in the original container, keep container tightly closed, protect from frost and direct sunlight; recommended storage temperature is +5°C to +25°C

Hints for combined storage: no contact with acids

other indications: none

Storage category: 12 non-combustible liquids  
comply with AUVA statements at [www.auva.at](http://www.auva.at)

### 7.3. Information about protection against fires and explosions:

no specific instructions

Consult instructions

## 8: Explosion limitation and personal protective equipment

### 8.1. Occupational exposure limit value:

Components with limit values that require monitoring at the workplace are not included in relevant amounts

A national limit for exposure at the workplace is not available.

### 8.2. Limitation and monitoring of exposure

Care for a good ventilation in the working room

Personal protective equipment see chapters 6 and 7  
The usual caution measures while dealing with chemicals have to be observed.

Protective and hygienic measures

Breathing protection not necessary  
Hand protection not relevant  
Eye and face protection wear protective goggles  
Body protection not relevant

## 9: Physical and chemical properties

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

pH-value at 25°C	6,0-8,0
Melting point:	about -2°C at normal pressure (1013 Pa)
Boiling point:	ca. 100°C at normal pressure (1013 Pa)
Ignition temperatur:	incombustible
Flashpoint: [°C]:	not applicable
Flammability:	incombustible
upper/ lower explosion limit	both not applicable
vapou pressure	data are not available
solubility in water (20°C)	fully miscible
Evaporation rate:	data are not available
relative density25°C:	ca. 1,004 g/l
spontaneous combustion	no self-ignition
decomposition temperature:	170 °C
explosive properties:	not explosive, no exothermally reaction with combustible material
oxidizing properties	no exothermally reaction with combustible material aqueous solution < 10% not more corrosive than water

### 9.2. Other Information

appearance:	clear, colourless liquid
odor:	faint smell like swimming-pool water
odour threshold	data is not available
does not contain any solvent	
liquid behaves like water	

## 10: Stability und Reactivity

<b>10.1: Reactivity</b>	see 10.3
	none known when used in accordance to instructions
<b>10.2: Chemical stability</b>	stabile under the specified storage conditions
<b>10.3: Dangerous Reactions</b>	reacts with acids, strong oxidising effect
<b>10.4: Conditions to avoid</b>	protected from heat and direct sunlight
<b>10.5: Incompatible materials</b>	not passivated unprotected metals, acids
<b>10.6: Hazardous decomposition products</b>	none known when used in accordance to instructions
<b>10.7: thermal decomposition:</b>	formation of sodium chlorate

## 11: Toxicological Information

### 11.1: Information on toxicological effects

Acute toxicity (oral):	classification criteria are not fulfilled with the data available
Acute toxicity (dermal):	dermatological tests, no skin changes
Acute toxicity (inhalation):	classification criteria are not fulfilled with the data available
Irritability and irritation of the skin:	dermatological tests, no skin changes
Eye damage/-irritation:	HET-CAM 0 (zero)
Airway sensitizing	classification criteria are not fulfilled with the data available
Skin sensitizing	dermatological tests, no skin changes
Gametes mutagenicity:	classification criteria are not fulfilled with the data available
Carcinogenicity:	classification criteria are not fulfilled with the data available
Reproductive toxicity:	classification criteria are not fulfilled with the data available
Breast milk effects on and about:	classification criteria are not fulfilled with the data available
Target organ toxicity (single exposure):	classification criteria are not fulfilled with the data available
Target organ toxicity (repeated exposure):	classification criteria are not fulfilled with the data available
Aspiration hazard:	classification criteria are not fulfilled with the data available

**Other informations:**

LD<sub>50</sub> rat     **oral: >5.000 mg/kg**

Informations about sodium hypochlorite:     LD<sub>50</sub> rabbit     **dermal: >5.000 mg/kg**

Informations to biocides  
with the same agent     in a concentration of 0,1%  
sodium hypochlorite / hypochlorous acid in product  
for skin disinfection can be used

## 12. Environmental data

### 12.1. Toxicity in according to (EG) Nr 1272/2008

information for sodium hypochlorite – CAS: 7681-52-9  
 ending points of acute aquatic toxicity:  
 LC<sub>50</sub> fishes >0,032 mg/l – 96 h  
 LC<sub>50</sub> crustaceans >0,032 mg/l – 48 h  
 LC<sub>50</sub> algae = 46 mg/l – 96 h

Water hazard class

not harmful to water.

Additional information:

no classification in accordance to calculation method  
 "General Classification Guideline for Preparations of the EC" as  
 issued in the last version.

:

### 12.2. Persistence and degradability:

Not persistent, reacts quickly with organic materials.

Behaviour in sewage plants

discharging of low concentration no  
 influence on the biodegradation effect

### 12.3. Bioaccumulative potential

Not relevant. The product contains approx. 99% of water and approx. 1% salts

### 12.4. Mobility:

Not relevant, quick degradation happens

### 12.5. PBT- und vPvB-assessment

PBT: inapplicable

vPvB: inapplicable

### 12.6. Other harmful effects

Avoid uncontrolled release into environment. Ecological data is not available. Negative ecotoxic effects according to the current state of knowledge are not expectable.

## 13. Instructions for the disposal

### 13.1. Processes for waste treatment:

#### Product

Waste code number:

20-03-99 = urban waste

waste disposal according to official regulations

Recommandation:

reduction with sodium thiosulfate or sodium, sulfite

#### Packaging

Waste code number:

15-01-02 = Plastic packaging

waste disposal according official regulations

Recommandation:

emptied, non contaminated packaging can be recycled

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### 14. Transport information

#### 14.1 UN-Number

ADR, ADN, IMD, IATA lapse

#### 14.2 Proper UN shipping name

ADR, ADN, IMDG, IATA lapse

#### 14.3 Transport hazard class

ADR, ADN, IMDG, IATA lapse

#### 14.4 Packaging group

ADR, IMDG, IATA lapse

#### 14.5 Environmental hazards

Marine pollutants-IDMG no

#### 14.5 Special precautions for user

Not applicable. No dangerous goods in respect to transportation regulations for land-, ship, and airtransportation (ARD and GGVSE, IDMG/GGVsee, ICAO-TI and IATA/DGR)

### 15. Regulations

#### 15.1. Regulations for safety, health and environmental protection/specific regulations for -mixtures

Storage category: 12 = non-flammable liquids

Water hazard class: WGK 1 (self-classification): slightly polluting

#### Additional Regulations, restrictions and prohibition order

Content of VOC not applicable

Substances of Very High Concern (SVHC) in accordance with REACH article 57 are not included.

**15.4: Chemical safety assessment:** not necessary

## 16. Other informations

### 16.1 Additional informations

Wording of the H- and P phrases see chapter 3

H290 = may be corrosive to metals.

EUH031 = Contact with acids liberates toxic gas

P410 = protect against sunlight

P412 = do not expose to temperatures > 50°C / 122°F

Literatur

Accident prevention regulation

This safety data sheet supersedes all prior versions.


### 16.2 Abbreviations and Acronyms

AUN	Accord europeen relatif au transport international des marchandises dangereuses par voies de navigation intérieure
ARD	Accord européen relatif au transport international des marchandises Dangereuses par Route
CAS	Chemical Abstracts Service
CLP	Regulation on Classification, Labelling and Packaging of Substances and Mixtures
EG	Europäische Gemeinschaft
EINECS	European Inventory of Existing Commercial Chemical Substances
EU	Europäische Union
GefStoffV	Gefahrstoffverordnung
GGVSE	Verordnung über die innerstaatliche und grenzüberschreitende Beförderung gefährlicher Güter auf der Straße, mit Eisenbahnen und auf Binnengewässern
GGVSee	Gefahrgutverordnung See
IMDG	International Maritime Code for Dangerous Goods
ICAO-TI	International Civil Aviation Organization - Technical Instructions
IATA-DGR	International Air Transport Association - Dangerous Goods Regulations
PBT	Polybutylenterephthalat(e)
REACH	Registration, Evaluation, Authorization of Chemicals
SVHC	Substances of Very High Concern
VOC	Volatile Organic Compounds
vPvB	very Persistent and very Bioaccumulative substances / sehr persistente und sehr bioakkumulierbare Stoffe

### Disclaimer

The given information is based on the state of science but is not a binding confirmation of product properties and does not establish any contractual relationship. Legal provisions have to be followed on its own responsibility.

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