

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878

## Carsystem H2O Cleaner

Version		Revision Date:	Date of last issue: 27.09.2023
1.3	DE / EN	07.03.2024	Date of first issue: 02.08.2022

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

#### 1.1 Product identifier

Trade name : Carsystem H2O Cleaner  
Product code : 151.953

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

Use of the Sub-  
stance/Mixture : Cleaning agent

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

Company : JASA AG  
Müslistrasse 43  
8957 Spreitenbach  
Schweiz  
  
info@jasa-ag.ch, www.jasa-ag.ch  
  
Telephone : +41 (0)44 431 60 70  
Telefax : +41 (0)44 432 63 17  
  
**Responsible Department** : Productmanagement, Tel: +41 (0)44 431 60 70, sds@jasa-ag.ch

#### 1.4 Emergency telephone

Telephone : Tox Info Suisse (STIZ), Tel: 145

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

Skin irritation, Category 2	H315: Causes skin irritation.
Eye irritation, Category 2	H319: Causes serious eye irritation.

#### 2.2 Label elements

##### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal Word : Warning

Hazard Statements : H315 Causes skin irritation.  
H319 Causes serious eye irritation.

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

##### Prevention:

P264 Wash skin thoroughly after handling.  
P280 Wear protective gloves/ eye protection/ face protection.

##### Response:

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337 + P313 If eye irritation persists: Get medical advice/ attention.  
P332 + P313 If skin irritation occurs: Get medical advice/ attention.

#### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

Chemical nature : Mixture

##### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
2-butoxyethanol	111-76-2 203-905-0 603-014-00-0 01-2119475108-36	Acute Tox. 4; H302 Acute Tox. 3; H331 Skin Irrit. 2; H315 Eye Irrit. 2; H319  Acute toxicity estimate  Acute oral toxicity: 1.200 mg/kg Acute inhalation toxicity (vapor): 3 mg/l	>= 1 - < 10
Dialkylsulphosuccinate	577-11-7 209-406-4 01-2119491296-29	Skin Irrit. 2; H315 Eye Dam. 1; H318	>= 1 - < 3

For explanation of abbreviations see section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first-aid measures

- General advice : Move out of dangerous area.  
Take off contaminated clothing and shoes immediately.  
Wash contaminated clothing before re-use.  
If you feel unwell, seek medical advice (show the label where possible).
- Protection of first-aiders : First Aid responders should pay attention to self-protection and use the recommended protective clothing
- If inhaled : Remove person to fresh air. If signs/symptoms continue, get medical attention.
- In case of skin contact : Wash off immediately with soap and plenty of water.  
Call a physician if irritation develops or persists.

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- In case of eye contact : Immediately flush eye(s) with plenty of water.  
If symptoms persist, call a physician.
- If swallowed : Do NOT induce vomiting.  
Call a physician immediately.
- Clean mouth with water and drink afterwards plenty of water.

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

- Risks : Causes skin irritation.  
Causes serious eye irritation.

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

- Treatment : Treat symptomatically.
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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media : Carbon dioxide (CO<sub>2</sub>)  
Dry powder  
Water spray jet  
Alcohol-resistant foam
- Unsuitable extinguishing media : High volume water jet

### 5.2 Special hazards arising from the substance or mixture

- Specific hazards during fire fighting : Build-up of dangerous/toxic fumes possible in cases of fire/high temperature.
- Hazardous combustion products : Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

### 5.3 Advice for firefighters

- Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.  
Use personal protective equipment.
- Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Further information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
In the event of fire and/or explosion do not breathe fumes.  
Use water spray to cool unopened containers.

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### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Wear personal protective equipment.  
Avoid contact with skin, eyes and clothing.  
Treat recovered material as described in the section "Disposal considerations".  
Forms slippery/greasy layers with water.

#### 6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.  
Do not allow contact with soil, surface or ground water.  
If the product contaminates rivers and lakes or drains inform respective authorities.

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

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Sweep up and shovel into suitable containers for disposal.  
  
Clean contaminated surface thoroughly.

#### 6.4 Reference to other sections

For personal protection see section 8., For disposal considerations see section 13.

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### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Local/Total ventilation : Ensure adequate ventilation.

Advice on safe handling : Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment  
Wear personal protective equipment.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Hygiene measures : Take off all contaminated clothing immediately. Wash contaminated clothing before re-use. Wash hands before breaks and at the end of workday. Avoid contact with skin, eyes and clothing. When using do not eat, drink or smoke.

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

Requirements for storage areas and containers : Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

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Further information on storage conditions : Storage must be in accordance with the BetrSichV (Germany).

Advice on common storage : Keep away from food and drink.  
Incompatible with oxidizing agents.

Storage class (TRGS 510) : 12

### 7.3 Specific end use(s)

Specific use(s) : No data available

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
2-butoxyethanol	111-76-2	TWA	20 ppm 98 mg/m <sup>3</sup>	2000/39/EC
	Further information: Identifies the possibility of significant uptake through the skin, Indicative			
		STEL	50 ppm 246 mg/m <sup>3</sup>	2000/39/EC
	Further information: Identifies the possibility of significant uptake through the skin, Indicative			
		AGW	10 ppm 49 mg/m <sup>3</sup>	DE TRGS 900
	Peak-limit category: 2;(I)			
	Further information: Skin absorption, When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			
		MAK	10 ppm 49 mg/m <sup>3</sup>	DE DFG MAK
	Further information: Danger of absorption through the skin, Damage to the embryo or foetus is unlikely when the MAK value or the BAT value is observed			

#### Biological occupational exposure limits

Substance name	CAS-No.	Control parameters	Sampling time	Basis
2-butoxyethanol	111-76-2	butoxy acetic acid: 150 mg/g creatinine (Urine)	In case of long-term exposure: after more than one shift, Immediately after exposure or after working hours	TRGS 903
		butoxy acetic acid: 150 mg/g creatinine	end of shift, for long-term exposure	DE DFG BAT

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		nine (Urine)	sure after several previous shifts, Immediately after exposition or after working hours	
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### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Routes of exposure	Potential health effects	Value
Reaction mass of 1,5-dimethyl glutarate, 1,6-dimethyl adipate and 1,4-dimethyl succinate	Workers	Inhalation	Long-term local effects	8,3 mg/m <sup>3</sup>
	Consumers	Inhalation	Long-term local effects	5 mg/m <sup>3</sup>
2-butoxyethanol	Workers	Inhalation	Long-term systemic effects	98 mg/m <sup>3</sup>
	Workers	Inhalation	Acute systemic effects	1091 mg/m <sup>3</sup>
	Consumers	Inhalation	Long-term systemic effects	59 mg/m <sup>3</sup>
	Consumers	Inhalation	Acute systemic effects	426 mg/m <sup>3</sup>
	Consumers	Oral	Long-term systemic effects	6,3 mg/kg bw/day

### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Reaction mass of 1,5-dimethyl glutarate, 1,6-dimethyl adipate and 1,4-dimethyl succinate	Fresh water	0,018 mg/l
	Sea water	0,002 mg/l
	Sewage treatment plant (STP)	10 mg/l
	Fresh water sediment	0,16 mg/kg
	Sea sediment	0,016 mg/kg
2-butoxyethanol	Soil	0,09 mg/kg
	Fresh water	8,8 mg/l
	Sea water	0,88 mg/l
	Fresh water sediment	34,6 mg/kg dry weight (d.w.)
	Sea sediment	3,46 mg/kg dry weight (d.w.)
	Sewage treatment plant (STP)	463 mg/l
	Soil	2,33 mg/kg dry weight (d.w.)

## 8.2 Exposure controls

### Personal protective equipment

Eye/face protection : Safety glasses with side-shields conforming to EN166

Hand protection

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Material : butyl-rubber  
Break through time : > 480 min  
Glove thickness : 0,5 mm  
Directive : DIN EN 374  
Protective index : Class 6

Material : Nitrile rubber  
Break through time : > 480 min  
Glove thickness : 0,35 mm  
Directive : DIN EN 374  
Protective index : Class 6

Material : Fluorinated rubber  
Break through time : > 480 min  
Glove thickness : 0,4 mm  
Directive : DIN EN 374  
Protective index : Class 6

Remarks : Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. The data about break through time/strength of material are standard values! The exact break through time/strength of material has to be obtained from the producer of the protective glove. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Preventive skin protection

Skin and body protection : Please wear suitable protective clothing, e.g. made of cotton or heat-resistant synthetic fibres.  
Long sleeved clothing

Respiratory protection : Apply technical measures to comply with the occupational exposure limits.  
No personal respiratory protective equipment normally required.

In case of inadequate ventilation wear respiratory protection.

Breathing apparatus needed only when aerosol or mist is formed.

Protective measures : Use only with adequate ventilation.  
Avoid contact with skin, eyes and clothing.  
When using do not eat, drink or smoke.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state : liquid



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Color	:	colorless
Odor	:	characteristic
Odor Threshold	:	not determined
Melting point/freezing point	:	< 0 °C
Initial boiling point and boiling range	:	105 °C
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Flash point	:	> 60 °C
Autoignition temperature	:	238 °C
pH	:	6,4 Concentration: 100 %
Viscosity	:	
Viscosity, dynamic	:	not determined
Viscosity, kinematic	:	not determined
Solubility(ies)	:	
Water solubility	:	completely miscible
Partition coefficient: n-octanol/water	:	not determined
Vapor pressure	:	23,02 hPa (20 °C)
Density	:	1,028 g/cm <sup>3</sup> (20 °C)

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Relative vapor density : not determined

### 9.2 Other information

Flammability (liquids) : does not ignite

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No decomposition if used as directed.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

### 10.4 Conditions to avoid

Conditions to avoid : Extremes of temperature and direct sunlight.

### 10.5 Incompatible materials

Materials to avoid : Strong acids  
Strong oxidizing agents

### 10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.  
Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

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## SECTION 11: Toxicological information

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

#### Acute toxicity

Not classified due to lack of data.

#### Product:

Acute oral toxicity : Acute toxicity estimate: > 2.000 mg/kg  
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l  
Exposure time: 4 h  
Test atmosphere: vapor  
Method: Calculation method

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### Components:

#### **2-butoxyethanol:**

Acute oral toxicity : Acute toxicity estimate: 1.200 mg/kg  
Method: Acute toxicity estimate according to Regulation (EC)  
No. 1272/2008

Acute inhalation toxicity : Acute toxicity estimate: 3 mg/l  
Test atmosphere: vapor  
Method: Acute toxicity estimate according to Regulation (EC)  
No. 1272/2008

#### **Dialkylsulphosuccinate:**

Acute oral toxicity : LD50 (Rat): > 2.100 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): 20 mg/l  
Exposure time: 96 h  
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rabbit): > 10.000 mg/kg  
Method: OECD Test Guideline 402

### **Skin corrosion/irritation**

Causes skin irritation.

### Components:

#### **Dialkylsulphosuccinate:**

Result : Skin irritation

### **Serious eye damage/eye irritation**

Causes serious eye irritation.

### Components:

#### **Dialkylsulphosuccinate:**

Result : Risk of serious damage to eyes.

### **Respiratory or skin sensitization**

#### **Skin sensitization**

Not classified due to lack of data.

#### **Respiratory sensitization**

Not classified due to lack of data.

#### **Germ cell mutagenicity**

Not classified due to lack of data.

#### **Carcinogenicity**

Not classified due to lack of data.

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### Reproductive toxicity

Not classified due to lack of data.

### STOT-single exposure

Not classified due to lack of data.

### STOT-repeated exposure

Not classified due to lack of data.

### Aspiration toxicity

Not classified due to lack of data.

## 11.2 Information on other hazards

### Endocrine disrupting properties

#### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

#### **2-butoxyethanol:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 1.474 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1.550 mg/l  
End point: Immobilization  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 911 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

Toxicity to fish (Chronic toxicity) : NOEC: > 100 mg/l  
Exposure time: 21 d  
Species: Danio rerio (zebra fish)  
Method: OECD Test Guideline 204

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 100 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 211

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### Dialkylsulphosuccinate:

Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): 49 mg/l  
Exposure time: 96 h

Toxicity to algae/aquatic plants : (Scenedesmus subspicatus): 82,5 mg/l  
Exposure time: 72 h

Toxicity to microorganisms : EC50 (Pseudomonas putida): > 100 mg/l

### Ecotoxicology Assessment

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

## 12.2 Persistence and degradability

### Components:

#### 2-butoxyethanol:

Biodegradability : Biodegradation: 90,4 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B

## 12.3 Bioaccumulative potential

No data available

## 12.4 Mobility in soil

No data available

## 12.5 Results of PBT and vPvB assessment

### Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## 12.6 Endocrine disrupting properties

### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## 12.7 Other adverse effects

### Product:

Additional ecological information : No data available

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### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

- Product : Do not dispose of with domestic refuse.  
Dispose of in accordance with local regulations.  
Send to a licensed waste management company.
- Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.  
Packaging that is not properly emptied must be disposed of as the unused product.  
Dispose of in accordance with local regulations.
- Waste Code : The following Waste Codes are only suggestions:  
070199, wastes not otherwise specified  
  
200130, detergents other than those mentioned in 20 01 29  
08 01 11, waste paint and varnish containing organic solvents  
or other hazardous substances  
15 01 10, packaging containing residues of or contaminated  
by hazardous substances

### SECTION 14: Transport information

#### 14.1 UN number or ID number

- ADN : Not regulated as a dangerous good  
ADR : Not regulated as a dangerous good  
RID : Not regulated as a dangerous good  
IMDG : Not regulated as a dangerous good  
IATA : Not regulated as a dangerous good

#### 14.2 UN proper shipping name

- ADN : Not regulated as a dangerous good  
ADR : Not regulated as a dangerous good  
RID : Not regulated as a dangerous good  
IMDG : Not regulated as a dangerous good  
IATA : Not regulated as a dangerous good

#### 14.3 Transport hazard class(es)

- ADN : Not regulated as a dangerous good  
ADR : Not regulated as a dangerous good  
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**IMDG** : Not regulated as a dangerous good

**IATA** : Not regulated as a dangerous good

### 14.4 Packing group

**ADN** : Not regulated as a dangerous good

**ADR** : Not regulated as a dangerous good

**RID** : Not regulated as a dangerous good

**IMDG** : Not regulated as a dangerous good

**IATA (Cargo)** : Not regulated as a dangerous good

**IATA (Passenger)** : Not regulated as a dangerous good

### 14.5 Environmental hazards

Not regulated as a dangerous good

### 14.6 Special precautions for user

Not applicable

### 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

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## SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Conditions of restriction for the following entries should be considered:  
Number on list 75, 3

If you intend to use this product as tattoo ink, please contact your vendor.

REACH - Candidate List of Substances of Very High Concern for Authorization (Article 59). : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving : Not applicable

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dangerous substances.

Water hazard class (Germany) : WGK 1 slightly water endangering  
Classification according to AwSV, Annex 1 (5.2)

Regulation (EC) No. 648/2004, as amended : less than 5 %: Anionic surfactants

### Other regulations:

Take note of Law on the protection of mothers at work, in education and in studies (Maternity Protection Act - MuSchG).

### 15.2 Chemical Safety Assessment

A chemical safety assessment according to (EC) regulation 1907/2006 (REACH) has not been carried out for this product.

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## SECTION 16: Other information

### Full text of H-Statements

H302 : Harmful if swallowed.  
H315 : Causes skin irritation.  
H318 : Causes serious eye damage.  
H319 : Causes serious eye irritation.  
H331 : Toxic if inhaled.

### Full text of other abbreviations

Acute Tox. : Acute toxicity  
Eye Dam. : Serious eye damage  
Eye Irrit. : Eye irritation  
Skin Irrit. : Skin irritation  
2000/39/EC : Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values  
DE DFG BAT : Germany. MAK BAT Annex XIII  
DE DFG MAK : Germany. MAK BAT Annex IIa  
DE TRGS 900 : Germany. TRGS 900 - Occupational exposure limit values.  
TRGS 903 : c - Biological limit values  
2000/39/EC / TWA : Limit Value - eight hours  
2000/39/EC / STEL : Short term exposure limit  
DE DFG MAK / MAK : MAK value  
DE TRGS 900 / AGW : Time Weighted Average

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration as-



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878

## Carsystem H2O Cleaner

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1.3 DE / EN	07.03.2024	Date of first issue: 02.08.2022

sociated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

#### Classification of the mixture:

Skin Irrit. 2	H315
Eye Irrit. 2	H319

#### Classification procedure:

Calculation method
Calculation method

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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