

**Safety Data Sheet**  
**According to Regulation (EC) No 1907/2006, Annex II,**  
**Amended by COMMISSION REGULATION (EU) 2020/878,**  
**According to REGULATION (EC) No 1272/2008**

Cleaning Solution

Version 1.0

Issue date: 05-05-2022

Revision date: 06-02-2025

SDS Record Number: CSSS-TCO-010-151144

**Section 1 Identification of the substance/mixture and of the company/undertaking**

**1.1 Product identifier:**

Identification on the label/Trade name: Cleaning Solution  
Additional identification: Nanoform is NOT covered by this SDS.  
UFI: N/A  
Identification of the product: See section 3  
Index Number: See section 3  
REACH registration No.: See section 3

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

**1.2.1 Identified uses:**

Clean the glass.

**1.2.2 Uses advised against:**

Not available.

**1.3 Details of the supplier of the safety data sheet:**

Manufacturer: Ecovacs Home Service Robotics Co.,Ltd.  
Address: No.518 Songwei Road,Wusongjiang industry Park,Guoxiang Street, Wuzhong District, Suzhou, Jiangsu, China  
Importer: Ecovacs Europe GmbH  
Address: Holzstrasse 2,40221 Düsseldorf,German  
Supplier(Only representative): -  
Supplier: Suzhou Xieheng Environmental Protection Technology Co., Ltd.  
Address: Suzhou City Golden Lion riverside No.45  
Contact person(E-mail): 519761092@qq.com  
Telephone: +86-18915560956  
Fax: -

**1.4 Emergency telephone Number:**

Only available during office hours (9:00a.m.-17:30p.m.)

E-mail: [service-de@ecovacs-europe.com](mailto:service-de@ecovacs-europe.com)

Telefon:0800 660 555 0

Available outside office hours?

YES

☐

NO

X

**Section 2 Hazards Identification**

**2.1 Classification of the substance or mixture:**

**2.1.1 Classification of the mixture:**

The mixture is classified as following according to REGULATION (EC) No 1272/2008:

REGULATION (EC) No 1272/2008	
Hazard classes/Hazard categories	Hazard statement
Skin Sens. 1A	H317

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Eye Irrit. 2

H319

SDS EU

Aquatic Chronic 3

H412

For full text of H- phrases: see section 2.2.

**2.2 Label elements:****Hazard pictogram(s):****Signal word:****Hazard statement(s):****Precautionary statement(s):**

Warning

H317: May cause an allergic skin reaction.

H319: Causes serious eye irritation.

H412: Harmful to aquatic life with long lasting effects.

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.

P264: Wash hands thoroughly after handling.

P272: Contaminated work clothing should not be allowed out of the workplace.

P273: Avoid release to the environment.

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

P302 + P352: IF ON SKIN: Wash with plenty of water.

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

P333 + P313: If skin irritation or rash occurs: Get medical advice/attention.

P337 + P313: If eye irritation persists: Get medical advice/attention.

P362 + P364: Take off contaminated clothing and wash it before reuse.

P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

**Supplemental Hazard information (EU)**

EUH208: Contains reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.

**2.3 Other hazards:**

The mixture does not contain PBT/vPvB substance.

The mixture does not contain endocrine disruptor.

**Section 3 Composition/information on ingredients****Substance/Mixture:**

Mixture

**Ingredient(s):**

Chemical Name	Registration No.	CAS No.	EC No.	Concentration	Classification	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)
Deionized water	N/A	7732-18-5	231-791-2	93~97%	Not Classified	N/A
Alcohol additives	N/A	67-63-0	200-661-7	2.5~5.5%	H225 H319 H336	N/A
Nonionic surfactant	N/A	9036-19-5	N/A	0.05~0.2%	H302 H318 H412	N/A
Preservative	N/A	55965-84-9	N/A	0.02%	H301 H310(2) H314 1C H318 H317 1A H330(2) H400 H410 EUH071	Eye Dam. 1: C ≥ ,6 % Eye Irrit. 2; H319: ,06 % ≤ C < ,6 % Skin Corr. 1C: C ≥ ,6 % Skin Irrit. 2; H315: ,06 % ≤ C < ,6 % Skin Sens. 1A: C ≥ ,0015 % M=100

						M(Chronic)=100
Pigment	N/A	3844-45-9	223-339-8	0.01~0.05%	Not Classified	N/A
Essence	N/A	78-70-6	201-134-4	0.01~0.05%	H317 1B	N/A

## Section 4 First aid measures

### 4.1 Description of first aid measures:

In all cases of doubt, or when symptoms persist, seek medical attention.

#### 4.1.1 In case of inhalation:

Move victim into fresh air. If breathing is difficult, give oxygen. Do not use mouth to mouth resuscitation if victim ingested or inhaled the substance. If not breathing, give artificial respiration and consult a physician immediately.

#### 4.1.2 In case of skin contact:

Take off contaminated clothing and shoes immediately. Wash off with plenty of soap and water for at least 15 minutes and consult a physician if feel uncomfortable.

#### 4.1.3 In case of eyes contact:

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.

#### 4.1.4 In case of ingestion:

Never give anything by mouth to an unconscious person. Call a physician immediately.

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

May cause an allergic skin reaction. Causes serious eye irritation.

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

If skin irritation or rash occurs, get medical advice/attention.

## Section 5 Firefighting measures

### 5.1 Extinguishing media:

Suitable extinguishing media:

Dry chemical, carbon dioxide or alcohol-resistant foam.

Unsuitable extinguishing media:

Do not use a solid water stream as it may scatter or spread fire.

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

Development of hazardous combustion gases or vapor possible in the event of fire. Slight fire hazard when exposed to heat or flame.

### 5.3 Advice for firefighters:

In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment. Wear chemical resistant oversuit. Cool containers / tanks with water spray.

## Section 6 Accidental release measures

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

#### 6.1.1 For non-emergency personnel:

Use personal protective equipment, do not breathe gas/mist/vapour/spray. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

#### 6.1.2 For emergency responders:

Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Ventilate the area. Wear suitable protective clothing.

## 6.2 Environmental Precautions:

Should not be released into the environment. Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities.

## 6.3 Methods and material for Containment and Cleaning up:

Cut off the source of the leak as much as possible. Keep leaks in a ventilated place. Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Contain spillage, and

then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container.

## 6.4 Reference to other sections:

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

## Section 7 Handling and storage

### 7.1 Precautions for safe handling:

#### 7.1.1 Protective measures:

Handling is performed in a well ventilated place. Wear suitable protective equipment. Avoid contact with skin and eyes. Keep away from heat/sparks/open flames/ hot surfaces. Wash hands and face after using of the substances. Replace the contaminated clothing immediately.

#### 7.1.2 Advice on general occupational hygiene:

Do not eat, drink and smoke in work areas. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.

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

Keep containers tightly closed. Keep containers in a dry, cool and well-ventilated place. Keep away from heat/sparks/open flames/hot surfaces. Store away from incompatible materials and foodstuff containers.

Storage class (TRGS 510): 12 Non-combustible liquids that cannot be assigned to any of the above storage classes.

### 7.3 Specific end use(s):

Not applicable.

## Section 8 Exposure Controls/Personal Protection

### 8.1 Control parameters:

#### 8.1.1 Occupational exposure limits:

Country	Substance	EC No.	CAS No.	Occupational Exposure Limit Value (8-hour reference period)		Occupational Exposure Limit Value (15-minute reference period)		
				ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	Note
Ireland	Isopropyl alcohol	200-661-7	67-63-0	200	-	400	-	Sk

#### 8.1.2 Additional exposure limits under the conditions of use:

Not available.

#### 8.1.3 DNEL/DMEL and PNEC-Values:

Not available.

### 8.2 Exposure controls:

#### 8.2.1 Appropriate engineering controls:

Ensure adequate ventilation. Apply technical measures to comply with the occupational exposure limits.

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

##### Eye/face protection:

Must wear appropriate safety goggles.

##### Skin protection

##### Hand protection:

Must wear appropriate chemical protective gloves.

##### Body protection:

Must wear appropriate chemical protective clothing and chemical resistant shoes.

##### Respiratory protection:

Must wear appropriate personal respiratory protective equipment.

##### Thermal hazards:

Wear suitable protective clothing to prevent heat.

**8.2.3 Environmental exposure controls:**

Avoid discharge into the environment.

According to local regulations, Federal and official regulations.

**Section 9 Physical and chemical properties****9.1 Information on basic physical and chemical properties:**

<b>Appearance:</b>	Liquid
<b>Colour:</b>	Light blue
<b>Odour:</b>	Blue wind chimes
<b>Odour threshold:</b>	Not available
<b>pH:</b>	7
<b>Melting point/range (°C):</b>	Not available
<b>Boiling point/range (°C):</b>	100°C
<b>Flash point (°C):</b>	Not available
<b>Evaporation rate:</b>	Not available
<b>Flammability limit - lower (%):</b>	Not available
<b>Flammability (solid, gas):</b>	Not available
<b>Ignition temperature (°C):</b>	Not available
<b>Upper/lower explosive limits:</b>	Not available
<b>Vapour pressure (20°C):</b>	Not available
<b>Vapour density:</b>	Not available
<b>Relative Density:</b>	1
<b>Bulk density (kg/m³):</b>	Not available
<b>Water solubility (g/l):</b>	Soluble in water
<b>n-Octanol/Water (log Po/w):</b>	Not available
<b>Auto-ignition temperature:</b>	Not available
<b>Decomposition temperature:</b>	Not available
<b>Viscosity, dynamic (mPa.s):</b>	Not available
<b>Explosive properties:</b>	Not explosive
<b>Oxidising</b>	Not oxidizing

properties: 9.2.

**Other****information:**

<b>Fat solubility(solvent-oil to be specified) etc:</b>	Not available
<b>Surface tension:</b>	Not available
<b>Dissociation constant in water( pKa):</b>	Not available
<b>Oxidation-reduction Potential:</b>	Not available

**Section 10 Stability and reactivity**

<b>10.1 Reactivity:</b>	The substance is stable under normal storage and handling conditions.
<b>10.2 Chemical stability:</b>	Stable at room temperature in closed containers under normal storage and handling conditions.
<b>10.3 Possibility of hazardous reactions:</b>	In contact with active metals (alkali metals, Na, Ca etc.) causes a reaction and release hydrogen. In

contact with oxidants  
causes severe reactions,  
and may cause a fire or  
explosion.

**10.4 Conditions to avoid:**

Incompatible materials.  
Keep away from heat,  
flame and spark.

**10.5 Incompatible materials:**

Alkali, sodium, calcium, and  
other active metal, halogen,  
metal oxide, nonmetal  
oxide, acyl halide and metal  
phosphide. Oxidants, alkali  
metals, alkaline earth  
metals and aluminum.

**10.6 Hazardous decomposition  
products:**

Under normal conditions of  
storage and use, hazardous  
decomposition products  
should not be produced.

## Section 11 Toxicological information

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

**Acute toxicity:**

**ATE<sub>mix</sub>(oral):** Not available

**ATE<sub>mix</sub>(inhalation):** Not available

**ATE<sub>mix</sub>(Dermal):** Not available

**Alcohol additives (CAS# 67-63-0)**

**LD50(Oral, Rat):** 5.84 g/kg body weight

**LC50(Inhalation, Rat):** > 10 000 ppm 6h

**LD50(Dermal, Rabbit):** 16.4 mL/kg bw

**Skin corrosion/Irritation:** Not classified

**Serious eye damage/irritation:** Causes serious eye irritation.

**Respiratory or skin sensitization:** May cause an allergic skin reaction.

**Germ cell mutagenicity:** Not classified

**Carcinogenicity:** Not classified

**Reproductive toxicity:** Not classified

**STOT- single exposure:** Not classified

**STOT-repeated exposure:** Not classified

**Aspiration hazard:** Not classified

### 11.2 Information on other hazards

**Endocrine disrupting properties** The mixture does not contain  
endocrine disruptor.

**Other information** Not applicable

## Section 12 Ecological information

### 12.1 Toxicity:

**Alcohol additives (CAS# 67-  
63-0) Acute (short-term)  
toxicity:**

**LC50(96h, Fish):** 10 000 mg/L

**EC50(48h, Crustacea):** Not available

**EC50(72h, Algae/aquatic plants):** Not available

**Chronic (long-term) toxicity:**

**NOEC(Fish):** Not available

<b>NOEC(Crustacea):</b>	Not available
<b>EC50(Algae/aquatic plants):</b>	Not available
<b>12.2 Persistence and degradability:</b>	Not available.
<b>12.3 Bioaccumulative potential:</b>	Not available.
<b>12.4 Mobility in soil:</b>	Not available.
<b>12.5 Results of PBT and vPvB assessment:</b>	The mixture does not contain PBT / vPvB substance.
<b>12.6 Endocrine disrupting properties:</b>	The mixture does not contain endocrine disruptor.
<b>12.7 Other adverse effects:</b>	Not available.
<b>12.8 Additional information</b>	Not available.

### Section 13 Disposal considerations

<b>13.1 Waste treatment methods:</b>	Dispose of in accordance with all applicable local and national regulations. Use recovery/recycling where feasible, otherwise incineration is the recommended method of disposal. Empty containers may contain hazardous residues. Do not cut, puncture or weld on or near to the container. Labels should not be removed from containers until they have been cleaned. Contaminated containers must
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not be treated as household waste. Containers should be cleaned by appropriate methods and then re-used or disposed of by landfill or incineration as appropriate. Do not incinerate closed containers.

### Section 14 Transport information

	<b>Land transport (ADR/RID)</b>	<b>Inland waterways (ADN)</b>	<b>Sea transport (IMDG)</b>	<b>Air transport (ICAO/IATA)</b>
<b>14. 1 UN number or ID number</b>	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.2 UN Proper shipping name</b>	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.3 Transport hazard Class(es)</b>	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.4 Packing group</b>	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.5 Environmental hazards</b>	No	No	No	No
<b>14.6 Special precautions for user</b>	See section 2.2	See section 2.2	See section 2.2	See section 2.2
<b>14.7 Maritime transport in bulk according to IMO instruments</b>	Not regulated	Not regulated	Not regulated	Not regulated

## Section 15 Regulatory information

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

Relevant information regarding authorization:

Not applicable.

Relevant information regarding restriction:

Not applicable.

Other EU regulations:

Employment restrictions concerning young person must be observed. For use only by technically qualified individuals.

Other National regulations:

**Germany**

Water hazard class (WGK):

WGK 1, Slightly hazardous to water (Classification according to AwSV, Annex 1).

### 15.2 Chemical safety assessment

YES

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NO

☒

## Section 16 Other information

### 16.1 Indication of changes:

Version 1.0 Amended by (EU) 2020/878

### 16.2 Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

RID: Regulation for rail International transportation of Dangerous goods

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

IMDG: Code international maritime dangerous goods code

ICAO: International Civil Aviation Organization

IATA: International Air Transport Association

UFI: Unique Formula Identifier

LC50: median lethal concentration

EC50: The effective concentration of substance that causes 50% of the maximum response.

NOEC: No Observed Effect Concentration

DNEL: derived no-effect level

PNEC: predicted no-effect concentration

### 16.3 Key literature references and sources for data

ECHA Registered substances data

### 16.4 Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]

Classification according to Regulation (EC) No. 1272/2008		Classification procedure
Eye Irrit. 2	H319	Calculation method
Skin Sens. 1A	H317	Calculation method
Aquatic Chronic 3	H412	Calculation method

### 16.5 Relevant H-statements (number and full text):

H225: Highly flammable liquid and vapour.

H301: Toxic if swallowed.

H302: Harmful if swallowed.

H310: Fatal in contact with skin.

H314: Causes severe skin burns and eye damage.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H318: Causes serious eye damage.

H319: Causes serious eye irritation.

H330: Fatal if inhaled.

H336: May cause drowsiness or dizziness.

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

H411: Toxic to aquatic life with long lasting effects.

H412: Harmful to aquatic life with long lasting effects.

EUH071: corrosive to the respiratory tract

#### **16.6 Training instructions:**

Not applicable.

#### **16.7 Further information:**

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

#### **16.8 Notice to reader:**

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

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