

Trade name: hygienicDES 2GO

Substance number: SUB441030041900

Version: 7 / EU

Date revised: 19.08.2020

the date of issue: 24.05.16

Replaces Version: 6 / EU

Print date: 07.01.2022

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

### **1.1. Product identifier**

*hygienicDES 2GO*

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

#### **Use of the substance/preparation**

Disinfectants and general biocidal products, For industrial application only.

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

#### **Address/Manufacturer**

HAGLEITNER HYGIENE International GmbH  
Lunastrasse 5  
A-5700 Zell am See  
Telephone no. +43 (0)5 0456  
Fax no. +43 (0)5 0456 7777  
E-Mail regulatoryaffairs@hagleitner.com  
Information provided Regulatory Affairs  
by / telephone  
E-mail address of regulatoryaffairs@hagleitner.com  
person responsible  
for this SDS

#### **Address/Supplier**

HAGLEITNER HYGIENE International GmbH  
Lunastrasse 5  
AT5700 Zell am See  
Telephone no. +43 (0)5 0456  
Fax no. +43 (0)5 0456 7777  
E-mail address of regulatoryaffairs@hagleitner.at  
person responsible  
for this SDS

### **1.4. Emergency telephone number**

Anti Poison Center Vienna: +43 (0)1 406 4343

## **SECTION 2: Hazards identification**

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

#### **Classification (Regulation (EC) No. 1272/2008)**

Classification (Regulation (EC) No. 1272/2008)

Acute Tox. 4	H302
Skin Corr. 1B	H314
Eye Dam. 1	H318
Aquatic Acute 1	H400
Aquatic Chronic 1	H410

Trade name: hygienicDES 2GO

Substance number: SUB441030041900

Version: 7 / EU

Date revised: 19.08.2020

the date of issue: 24.05.16

Replaces Version: 6 / EU

Print date: 07.01.2022

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008  
For explanation of abbreviations see section 16.

## 2.2. Label elements

### Labelling according to regulation (EC) No 1272/2008

#### Hazard pictograms



#### Signal word

Danger

#### Hazard statements

H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H410 Very toxic to aquatic life with long lasting effects.

#### Precautionary statements

P273 Avoid release to the environment.  
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 [or shower].  
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 or doctor.  
P501 Dispose of contents/container according to the local/national rules and regulations.

#### Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

contains Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides; didecyldimethylammonium chloride; Alcohols, C9-11, ethoxylated

#### Supplemental information

For industrial application only.

## 2.3. Other hazards

No special hazards have to be mentioned.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Chemical characterization

hygienicDES 2GO

#### Hazardous ingredients

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides

CAS No. 68424-85-1

Trade name: hygienicDES 2GO

Substance number: SUB441030041900

Version: 7 / EU

Date revised: 19.08.2020

the date of issue: 24.05.16

Replaces Version: 6 / EU

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EINECS no. 270-325-2  
 Concentration >= 25 < 39 %  
 Classification Xn, R21/22  
 C, R34  
 N, R50

Classification (Regulation (EC) No. 1272/2008)

Met. Corr. 1 H290  
 Skin Corr. 1B H314  
 Aquatic Acute 1 H400  
 Acute Tox. 4 H302  
 Aquatic Chronic 1 H410  
 Eye Dam. 1 H318

Concentration limits (Regulation (EC) No. 1272/2008)

Aquatic Acute 1 H400 M = 10  
 Aquatic Chronic H410 M = 1  
 1

**didecyldimethylammonium chloride**

CAS No. 7173-51-5  
 EINECS no. 230-525-2  
 Registration no. 01-2119945987-15  
 Concentration >= 11 < 24 %  
 Classification Xn, R22  
 C, R34

Classification (Regulation (EC) No. 1272/2008)

Skin Corr. 1B H314  
 Acute Tox. 4 H302

**Alcohols, C9-11, ethoxylated**

CAS No. 169107-21-5  
 Concentration >= 10 < 18 %  
 Classification Xn, R22-R41

Classification (Regulation (EC) No. 1272/2008)

Acute Tox. 4 H302  
 Eye Dam. 1 H318

**ethanol**

CAS No. 64-17-5  
 EINECS no. 200-578-6  
 Registration no. 01-2119457610-43-XXXX  
 Concentration >= 1 < 10 %  
 Classification F, R11

Classification (Regulation (EC) No. 1272/2008)

Flam. Liq. 2 H225

Trade name: hygienicDES 2GO

Substance number: SUB441030041900

Version: 7 / EU

Date revised: 19.08.2020

the date of issue: 24.05.16

Replaces Version: 6 / EU

Print date: 07.01.2022

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

### **4.1. Description of first aid measures**

#### **General information**

Remove contaminated, soaked clothing immediately and dispose of safely.

#### **After inhalation**

Ensure supply of fresh air. Remove the casualty into fresh air and keep him calm. In the event of symptoms take medical treatment.

#### **After skin contact**

Wash off immediately with soap and water. Consult a doctor if skin irritation persists.

#### **After eye contact**

In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. Eye treatment by an Oculist.

#### **After ingestion**

Rinse mouth thoroughly with water. Drink water in small gulps. If swallowed, seek medical advice immediately and show this container or label.

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

The following symptoms may occur: Shortness of breath

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

#### **Hints for the physician / treatment**

Treat symptomatically

## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

#### **Suitable extinguishing media**

Product itself is non-combustible; adapt fire extinguishing measures to surrounding areas. Compatible with all usual extinguishing media.

#### **Non suitable extinguishing media**

Full water jet

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

In case of combustion evolution of dangerous gases possible.

### **5.3. Advice for firefighters**

#### **Special protective equipment for fire-fighting**

Use self-contained breathing apparatus.

#### **Other information**

Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations.

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

Trade name: hygienicDES 2GO

Substance number: SUB441030041900

Version: 7 / EU

Date revised: 19.08.2020

the date of issue: 24.05.16

Replaces Version: 6 / EU

Print date: 07.01.2022

**6.1. Personal precautions, protective equipment and emergency procedures**

High risk of slipping due to leakage/spillage of product. Use personal protective clothing.

**6.2. Environmental precautions**

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

**6.3. Methods and material for containment and cleaning up**

Take up with absorbent material (eg sand, kieselguhr, universal binder). Rinse away rest with plenty of water.

**6.4. Reference to other sections**

Refer to protective measures listed in Sections 7 and 8. Information regarding waste disposal, see Section 13.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**

Keep container tightly closed. Observe the usual precautions for handling chemicals.

**Advice on protection against fire and explosion**

The product is not combustible. Containers in danger should be cooled with water.

**7.2. Conditions for safe storage, including any incompatibilities****Recommended storage temperature**

Value	10	25	°C
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**Storage stability**

Storage life: 3 years

**Requirements for storage rooms and vessels**

Keep only in original packaging. Storage rooms must be properly ventilated.

**Hints on storage assembly**

Do not store together with foodstuffs. Do not store together with animal feedstocks.

**Further information on storage conditions**

Keep only in the original container, tightly closed, in a well ventilated place. Protect from heat and direct sunlight.

**7.3. Specific end use(s)**

For industrial application only.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Other information**

Maintain air concentrations below occupational exposure standards.

**8.2. Exposure controls****General protective and hygiene measures**

Trade name: hygienicDES 2GO

Substance number: SUB441030041900

Version: 7 / EU

Date revised: 19.08.2020

the date of issue: 24.05.16

Replaces Version: 6 / EU

Print date: 07.01.2022

Avoid contact with skin and eyes. Do not eat, drink or smoke during work time. Observe the usual precautions for handling chemicals.

### Respiratory protection

Breathing apparatus in the event of aerosol or mist formation. If workplace limits are exceeded, a respiratory protection approved for this particular job must be worn.

### Hand protection

In case of intensive contact wear protective gloves.

Appropriate Material nitrile

Material thickness = 0,5 mm

Breakthrough time >= 480 min

z.B.: BRILLANT nitrilX-TREME, Art.-Nr. 4451001000 oder BRILLANT nitrilSTYLE, Art.-Nr. 4451001300

### Eye protection

Tightly fitting safety glasses

### Body protection

Clothing as usual in the chemical industry.

## SECTION 9: Physical and chemical properties

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

<b>Form</b>	liquid
<b>Colour</b>	blue violet
<b>Odour</b>	Product specific
<b>pH value</b>	
Value	= 6 to 8
Concentration/H <sub>2</sub> O	= 100 %
Temperature	= 20 °C
<b>Freezing point</b>	
Value	appr. -4 to 4 °C
<b>Sublimation point</b>	
Remarks	not determined
<b>Initial boiling point and boiling range</b>	
Value	appr. 100 °C
<b>Flash point</b>	
Value	> 65 °C
<b>Evaporation rate</b>	
Remarks	not determined
<b>Evaporation rate (ether = 1) :</b>	
Remarks	not determined
<b>Vapour pressure</b>	
Remarks	not determined
<b>Vapour density</b>	
Remarks	not determined

Trade name: hygienicDES 2GO

Substance number: SUB441030041900

Version: 7 / EU

Date revised: 19.08.2020

the date of issue: 24.05.16

Replaces Version: 6 / EU

Print date: 07.01.2022

**Density**

Value	appr.	0,970	to	0,975	g/cm <sup>3</sup>
Temperature	=	20	°C		

**Solubility in water**

Remarks Completely miscible

**Partition coefficient: n-octanol/water**

Remarks not determined

**Auto-ignition temperature**

Remarks not determined

**Combustion factor**

Remarks not determined

**Decomposition temperature**

Remarks No decomposition if used as prescribed.

**Viscosity****dynamic**

Value	appr.	50	to	150	mPa.s
Temperature	=	20	°C		

**Oxidising properties**

evaluation None known

**9.2. Other information****Bulk density**

Remarks not determined

**Packed bulk density**

Remarks not determined

**Solids content**

Remarks not determined

**Saturation Concentration**

Remarks not determined

**Critical point**

Remarks not determined

**Dissociation constant**

Remarks not determined

**Surface tension**

Remarks not determined

**Other information**

None known

**SECTION 10: Stability and reactivity****10.1. Reactivity**

Trade name: hygienicDES 2GO

Substance number: SUB441030041900

Version: 7 / EU

Date revised: 19.08.2020

the date of issue: 24.05.16

Replaces Version: 6 / EU

Print date: 07.01.2022

None known

**10.2. Chemical stability**

Protect from extreme heat and cold.

**10.3. Possibility of hazardous reactions**

Protect from extreme heat and cold. Protect from contamination.

**10.4. Conditions to avoid**

Keep at temperature not exceeding 30 °C.

**10.5. Incompatible materials**

No hazardous reactions when stored and handled according to prescribed instructions.

**10.6. Hazardous decomposition products**

Toxic gases/vapours

**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Acute oral toxicity****hygienicDES 2GO**

ATE	744,667	mg/kg
	7	

Method calculated value (Regulation (EC) No. 1272/2008)

**Acute oral toxicity (Components)****Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides**

Species	rat	
LD50	= 795	mg/kg

**didecyldimethylammonium chloride**

Species	rat	
LD50	= 238	mg/kg
Method	OECD 401	

**ethanol**

Species	rat	
LD50	> 2000	mg/kg
Method	OECD 401	

**Acute dermal toxicity****hygienicDES 2GO**

ATE	4.797,78	mg/kg
	56	

Method calculated value (Regulation (EC) No. 1272/2008)

**Acute dermal toxicity (Components)****Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides**

Species	rat	
LD50	= 1560	mg/kg

**didecyldimethylammonium chloride**

Species	rabbit	
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Trade name: hygienicDES 2GO

Substance number: SUB441030041900

Version: 7 / EU

Date revised: 19.08.2020

the date of issue: 24.05.16

Replaces Version: 6 / EU

Print date: 07.01.2022

LD50 = 3342 mg/kg

**Acute inhalational toxicity**

&gt;= 2000 mg/l

**Acute inhalative toxicity (Components)****ethanol**

Species	rat		
LC50	>	20	mg/l
Duration of exposure	=	4	h
Administration/Form	Vapors		

**Skin corrosion/irritation**

evaluation irritant

**Serious eye damage/irritation**

evaluation irritant

**Sensitization**

evaluation non-sensitizing

**Subacute, subchronic, chronic toxicity**

Remarks not determined

**Mutagenicity**

Remarks not determined

**Reproductive toxicity**

Remarks not determined

**Carcinogenicity**

Remarks not determined

**SECTION 12: Ecological information****12.1. Toxicity****Fish toxicity (Components)****Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides**

Species	rainbow trout (Oncorhynchus mykiss)		
	=	0,085	mg/l
Duration of exposure	=	96	h
Method	OECD 203		

**didecyldimethylammonium chloride**

Species	Fathead minnow (Pimephales promelas)		
LC50	=	0,19	mg/l
Duration of exposure	=	96	h
Method	US-EPA		

**didecyldimethylammonium chloride**

Species	zebra fish (Brachydanio rerio)		
NOEC	=	0,03	mg/l
Duration of exposure	=	34	d

**ethanol**

Species Fathead minnow (Pimephales promelas)

Trade name: hygienicDES 2GO

Substance number: SUB441030041900

Version: 7 / EU

Date revised: 19.08.2020

the date of issue: 24.05.16

Replaces Version: 6 / EU

Print date: 07.01.2022

LC50	=	15300		mg/l
Duration of exposure	=	96	h	
Method		US-EPA		

**Daphnia toxicity (Components)****Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides**

Species	Daphnia magna			
EC50	=	0,016		mg/l
Duration of exposure	=	48	h	

**didecyldimethylammonium chloride**

Species	Daphnia magna			
NOEC	=	0,01		mg/l
Duration of exposure	=	21	d	
Method	OECD 211			

**didecyldimethylammonium chloride**

Species	Daphnia magna			
EC50	=	0,06		mg/l
Duration of exposure	=	48	h	
Method	EPA-FIFRA			

**ethanol**

Species	Ceriodaphnia spec			
EC50	>	10000		mg/l
Duration of exposure	=	48	h	
Source	Manufacturer's data			

**ethanol**

Species	Daphnia magna			
EC50	>	10000		mg/l
Duration of exposure	=	48	h	

**Algae toxicity (Components)****Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides**

Species	Senastrum capricornutum			
EC10		0,0025		mg/l
Duration of exposure	=	72	h	
Method	OECD 201			

**Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides**

Species	Senastrum capricornutum			
EC50	=	0,025		mg/l
Duration of exposure	=	72	h	
Method	OECD 201			

**didecyldimethylammonium chloride**

ErC50	=	0,02		mg/l
Duration of exposure	=	96	h	
Method	OECD TG 201			

**ethanol**

Species	Chlorella vulgaris			
EC10	=	11,5		mg/l
Duration of exposure	=	3	d	
Method	OECD TG 201			

Trade name: hygienicDES 2GO

Substance number: SUB441030041900

Version: 7 / EU

Date revised: 19.08.2020

the date of issue: 24.05.16

Replaces Version: 6 / EU

Print date: 07.01.2022

**ethanol**

Species	Chlorella vulgaris		
EC50	= 275		mg/l
Duration of exposure	= 3	d	
Method	OECD TG 201		

**Bacteria toxicity (Components)****didecyldimethylammonium chloride**

Species	activated sludge		
EC50	= 11		mg/l
Duration of exposure	= 3	h	
Method	OECD 209		

**ethanol**

	= 5800		mg/l
Duration of exposure	= 4	h	

**12.2. Persistence and degradability****General information**

not determined

**12.3. Bioaccumulative potential****Partition coefficient: n-octanol/water**

Remarks not determined

**12.4. Mobility in soil****General information**

not determined

**12.5. Results of PBT and vPvB assessment****General information**

not determined

**12.6. Other adverse effects****General information**

not determined

**General information / ecology**

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****Disposal recommendations for the product**

EWC waste code 20 01 29\* detergents containing dangerous substances

The listed waste code numbers, according to the European Waste Catalogue (EWC), are to be understood as a recommendation. A final decision must be made in agreement with the regional waste

Trade name: hygienicDES 2GO

Substance number: SUB441030041900

Version: 7 / EU

Date revised: 19.08.2020







the date of issue: 24.05.16

Replaces Version: 6 / EU

Print date: 07.01.2022

disposal company.

## SECTION 14: Transport information

	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
Tunnel restriction code	E		
14.1. UN number	1903	1903	1903
14.2. UN proper shipping name	DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl chlorides, didecyldimethylammonium chloride)	DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl chlorides, didecyldimethylammonium chloride)	DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl chlorides, didecyldimethylammonium chloride)
14.3. Transport hazard class(es)	8	8	8
Label			
14.4. Packing group	III	III	III
Limited Quantity	5 l		
Transport category	3		
14.5. Environmental hazards	 ENVIRONMENTALLY HAZARDOUS	 ENVIRONMENTALLY HAZARDOUS	 ENVIRONMENTALLY HAZARDOUS

### Information for all modes of transport

#### 14.6. Special precautions for user

The relevant transport regulations have to be considered.

### Other information

#### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

No data available

Trade name: hygienicDES 2GO

Substance number: SUB441030041900

Version: 7 / EU

Date revised: 19.08.2020

the date of issue: 24.05.16

Replaces Version: 6 / EU

Print date: 07.01.2022

## **SECTION 15: Regulatory information**

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

#### **30 % and more:**

cationic surfactants

#### **15 % or over but less than 30 %:**

disinfectants

#### **5 % or over but less than 15 %:**

non-ionic surfactants

### **VOC**

VOC (CH)	=	15	%
VOC (EU)	=	15	%

### **Other regulations, restrictions and prohibition regulations**

Regulation (EC) No 2015/830

#### **Biocide Substance**

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides

Concentration 325,15 g/kg

CAS No. 68424-85-1

didecyldimethylammonium chloride

Concentration 163,76 g/kg

CAS No. 7173-51-5

### **15.2. Chemical safety assessment**

For this preparation a chemical safety assessment has not been carried out.

## **SECTION 16: Other information**

Alterations/supplements: Alterations to the previous edition are marked with an asterisk (\*) in the left-hand margin.

### **Hazard statements listed in Chapter 3**

H225	Highly flammable liquid and vapour.
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

### **CLP categories listed in Chapter 3**

Acute Tox. 4	Acute toxicity, Category 4
Aquatic Acute 1	Hazardous to the aquatic environment, acute, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic, Category 1
Eye Dam. 1	Serious eye damage, Category 1
Flam. Liq. 2	Flammable liquid, Category 2
Met. Corr. 1	Substance or mixture corrosive to metals, Category 1

Trade name: hygienicDES 2GO

Substance number: SUB441030041900

Version: 7 / EU

Date revised: 19.08.2020

the date of issue: 24.05.16

Replaces Version: 6 / EU

Print date: 07.01.2022

Skin Corr. 1B

Skin corrosion, Category 1B

### Abbreviations

ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route

IMDG: International Maritime Code for Dangerous Goods

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

CAS: Chemical Abstracts Service

VOC: Volatile Organic Compound

MAK: Maximale Arbeitsplatz-Konzentration

NOEL: No observable effect level

NOEC: No observable effect concentration

LD: Lethal dose

LC: Lethal concentration

DNEL: Derived no effect level

IMO: International Maritime Organization

REACH: Registration, Evaluation, Autohorisation and Restriction of Chemicals

CEFIC: European Chemical Industry Council

PNEC: Predicted no effect concentration

DMEL: Derived minimal effect level

DNEL: Derived no effect level

RID: Règlement concernant le transport international ferroviaire de marchandises dangereuses

UN: United Nations

### Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: \*\*\*

This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.

