

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

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

#### \* 1.1. Product identifier

Trade name/designation:

etolit Des

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

Use of the substance/mixture:

Washing and cleaning products

Relevant identified uses:

Life cycle stage [LCS]

PW: Widespread use by professional workers

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

Supplier (manufacturer/importer/only representative/downstream user/distributor):

etol Eberhard Tripp GmbH

Labor

Allerheiligenstr. 12

77728 Oppenau

Germany

Telephone: +49(0)7804/41-0

Telefax: +49(0)7804/41-168

E-mail: info@etol.de

Website: www.etol.de

E-mail (competent person): wolfgang.gauss@etol.de

#### 1.4. Emergency telephone number

Wolfgang Gauss, +49(0)7804/41-167 (Only available during office hours.)

### SECTION 2: Hazards identification

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

Classification according to Regulation (EC) No 1272/2008 [CLP]-:

Hazard classes and hazard categories	Hazard statements	Classification procedure
Skin corrosion/irritation ( <i>Skin Corr. 1</i> )	H314: Causes severe skin burns and eye damage.	
Serious eye damage/eye irritation ( <i>Eye Dam. 1</i> )	H318: Causes serious eye damage.	
Hazardous to the aquatic environment ( <i>Aquatic Acute 1</i> )	H400: Very toxic to aquatic life.	

#### 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms:



**GHS05**  
Corrosion



**GHS09**  
Environment

Signal word: Danger

Hazard components for labelling:

sodium hypochlorite solution

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### hazard statements for health hazards

H314 Causes severe skin burns and eye damage.

### Hazard statements for environmental hazards

H400 Very toxic to aquatic life.

### Supplemental hazard information

EUH031 Contact with acids liberates toxic gas.

### Precautionary statements Prevention

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

### Precautionary statements Response

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/doctor/....

### 2.3. Other hazards

No data available

## SECTION 3: Composition / information on ingredients

### 3.2. Mixtures

#### Hazardous ingredients / Hazardous impurities / Stabilisers:

product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 7681-52-9 EC No.: 231-668-3 REACH No.: 01-2119488154-34	<b>sodium hypochlorite solution</b> Aquatic Acute 1, Aquatic Chronic 1, Eye Dam. 1, Skin Corr. 1B <b>Danger</b> H314-H410-EUH031 M-factor (acute): 10 M-factor (chronic): 1	5 - 10 weight-%

Full text of H- and EUH-phrases: see section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. Remove contaminated, saturated clothing. If unconscious but breathing normally, place in recovery position and seek medical advice. Do not leave affected person unattended. Warning First aider: Pay attention to self-protection!

#### Following inhalation:

Provide fresh air. In case of respiratory tract irritation, consult a physician.

#### In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing. Get immediate medical advice/attention. If skin irritation or rash occurs: Get medical advice/attention.

#### After eye contact:

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

#### Following ingestion:

Rinse mouth. Let water be drunken in little sips (dilution effect). Get medical advice/attention if you feel unwell. Rinse mouth immediately and drink plenty of water-. Do NOT induce vomiting. Get immediate medical advice/attention.

#### Self-protection of the first aider:

Use personal protection equipment.

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

Skin corrosion/irritation Serious eye damage/eye irritation

### 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:

Co-ordinate fire-fighting measures to the fire surroundings.

Water

Extinguishing powder

Carbon dioxide (CO<sub>2</sub>)

#### Unsuitable extinguishing media:

Strong water jet

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

The product itself does not burn.

#### Hazardous combustion products:

In case of fire: Chlorine (Cl<sub>2</sub>) Hydrogen chloride (HCl)

### 5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

### 5.4. Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water-.

## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

##### Personal precautions:

Remove persons to safety.

##### Protective equipment:

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

#### 6.1.2. For emergency responders

##### Personal protection equipment:

Personal protection equipment: see section 8

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

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

#### For containment:

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

#### For cleaning up:

Water

### 6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

### 6.5. Additional information

Use appropriate container to avoid environmental contamination.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Protective measures

#### Advices on safe handling:

Wear personal protection equipment (refer to section 8).

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### Fire prevent measures:

No special measures are necessary.

### Advices on general occupational hygiene

When using do not eat, drink or smoke. Avoid contact with eyes and skin.

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

#### Technical measures and storage conditions:

Container should not be closed gas-tight.

Keep cool. Protect from sunlight.

#### Requirements for storage rooms and vessels:

Keep/Store only in original container.

Container should not be closed gas-tight.

**Storage class:** 8B - Non-combustible corrosive substances

### 7.3. Specific end use(s)

No data available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1. Occupational exposure limit values

No data available

#### 8.1.2. Biological limit values

No data available

#### 8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
sodium hypochlorite solution CAS No.: 7681-52-9	1.55 mg/m <sup>3</sup>	① DNEL worker ② Long-term - inhalation, systemic effects
sodium hypochlorite solution CAS No.: 7681-52-9	3.1 mg/m <sup>3</sup>	① DNEL worker ② Acute - inhalation, systemic effects
sodium hypochlorite solution CAS No.: 7681-52-9	1.55 mg/m <sup>3</sup>	① DNEL worker ② Long-term - inhalation, local effects
sodium hypochlorite solution CAS No.: 7681-52-9	3.1 mg/m <sup>3</sup>	① DNEL worker ② Acute - inhalation, local effects

Substance name	PNEC Value	① PNEC type
sodium hypochlorite solution CAS No.: 7681-52-9	0.21 µg/l	① PNEC aquatic, freshwater
sodium hypochlorite solution CAS No.: 7681-52-9	0.042 µg/l	① PNEC aquatic, marine water
sodium hypochlorite solution CAS No.: 7681-52-9	0.03 mg/l	① PNEC sewage treatment plant
sodium hypochlorite solution CAS No.: 7681-52-9	11.1 mg/kg	① PNEC secondary poisoning

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

No data available

#### 8.2.2. Personal protection equipment



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### Eye/face protection:

Eye glasses with side protection DIN EN 166

### Skin protection:

Tested protective gloves must be worn EN ISO 374 Suitable material: NBR (Nitrile rubber) >0,2mm  
Breakthrough time: 480min In the case of wanting to use the gloves again, clean them before taking off and air them well. Breakthrough times and swelling properties of the material must be taken into consideration.

### 8.2.3. Environmental exposure controls

No data available

## SECTION 9: Physical and chemical properties

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

#### Appearance

**Physical state:** Liquid

**Colour:** yellow

**Odour:** Chlorine

#### Safety relevant basis data

parameter		at °C	Method	Remark
pH	12	20 °C		
Melting point	<i>not determined</i>			
Freezing point	<i>not determined</i>			
Initial boiling point and boiling range	> 90 °C			
Decomposition temperature	<i>not determined</i>			
Flash point	<i>not applicable</i>			
Evaporation rate	<i>not determined</i>			
Auto-ignition temperature	<i>not determined</i>			
Upper/lower flammability or explosive limits	<i>not determined</i>			
Vapour pressure	<i>not determined</i>			
Vapour density	<i>not determined</i>			
Density	= 1.1 g/cm <sup>3</sup>	20 °C		
Bulk density	<i>not determined</i>			
Water solubility	completely miscible	20 °C		
Partition coefficient: n-octanol/water	<i>not determined</i>			
Dynamic viscosity	<i>not determined</i>			
Kinematic viscosity	<i>not determined</i>	40 °C		

### 9.2. Other information

No data available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Contact with acids liberates toxic gas. The product itself does not burn.

### 10.2. Chemical stability

The mixture is chemically stable under recommended conditions of storage, use and temperature.

### 10.3. Possibility of hazardous reactions

Contact with acids liberates toxic gas.

### 10.4. Conditions to avoid

Protect from sunlight. Store in a well-ventilated place.

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### 10.5. Incompatible materials

Exothermic reaction with: Acid  
Light metals  
Copper alloys  
Heavy metals

### 10.6. Hazardous decomposition products

Chlorine  
Oxygen

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

CAS No.	Substance name	Toxicological information
7681-52-9	sodium hypochlorite solution	<b>LD<sub>50</sub> oral:</b> =1,100 mg/kg (Rat) <b>LD<sub>50</sub> dermal:</b> >20,000 mg/kg (Rabbit) <b>LC<sub>50</sub> Acute inhalation toxicity (vapour):</b> >10.5 mg/l (Rabbit)

#### Acute oral toxicity:

Based on available data, the classification criteria are not met.

#### Acute dermal toxicity:

Based on available data, the classification criteria are not met.

#### Acute inhalation toxicity:

Based on available data, the classification criteria are not met.

#### Skin corrosion/irritation:

Causes severe burns.

#### Serious eye damage/irritation:

Causes serious eye damage.

#### Respiratory or skin sensitisation:

Based on available data, the classification criteria are not met.

#### Germ cell mutagenicity:

Based on available data, the classification criteria are not met.

#### Carcinogenicity:

Based on available data, the classification criteria are not met.

#### Reproductive toxicity:

Based on available data, the classification criteria are not met.

#### STOT-single exposure:

Based on available data, the classification criteria are not met.

#### STOT-repeated exposure:

Based on available data, the classification criteria are not met.

#### Aspiration hazard:

Based on available data, the classification criteria are not met.

#### Additional information:

No data available

## SECTION 12: Ecological information

### 12.1. Toxicity

CAS No.	Substance name	Toxicological information
7681-52-9	sodium hypochlorite solution	<b>LC<sub>50</sub>:</b> =0.06 mg/l 4 d (fish-) <b>NOEC:</b> =0.04 mg/l 12 d (fish-)

#### Aquatic toxicity:

Very toxic to aquatic life.

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### 12.2. Persistence and degradability

CAS No.	Substance name	Biodegradation	Remark
7681-52-9	sodium hypochlorite solution	not applicable	

### 12.3. Bioaccumulative potential

CAS No.	Substance name	Log K <sub>OW</sub>	Bioconcentration factor (BCF)
7681-52-9	sodium hypochlorite solution	-3.42	

### 12.4. Mobility in soil

No data available

### 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

### 12.6. Other adverse effects

No data available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### 13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

#### Waste code product:

20 01 29 \* Detergents containing hazardous substances

\*: Evidence for disposal must be provided.

#### Waste code packaging:

15 01 10 \* packaging containing residues of or contaminated by dangerous substances

\*: Evidence for disposal must be provided.

### Waste treatment options





#### Appropriate disposal / Product:

Consult the appropriate local waste disposal expert about waste disposal.

#### Appropriate disposal / Package:

Completely emptied packages can be recycled.

## SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
<b>14.1. UN-No.</b>			
UN 1791	UN 1791	UN 1791	UN 1791
<b>14.2. UN proper shipping name</b>			
HYPOCHLORITE SOLUTION	HYPOCHLORITE SOLUTION	HYPOCHLORITE SOLUTION	HYPOCHLORITE SOLUTION
<b>14.3. Transport hazard class(es)</b>			
 8	 8	 8	 8
<b>14.4. Packing group</b>			
III	III	III	III

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Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
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### 14.5. Environmental hazards

		 MARINE POLLUTANT	
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### \* 14.6. Special precautions for user

<b>Special provisions:</b> 521 <b>Limited quantity (LQ):</b> 5 L <b>Excepted Quantities (EQ):</b> E1 <b>Hazard identification number (Kemler No.):</b> 80 <b>Classification code-:</b> C5 <b>tunnel restriction code-:</b> (E) <b>Remark:</b>	<b>Special provisions:</b> 521 <b>Limited quantity (LQ):</b> 5 L <b>Excepted Quantities (EQ):</b> E1 <b>Classification code-:</b> C5 <b>Remark:</b>	<b>Special provisions:</b> <b>Limited quantity (LQ):</b> 5 L <b>Excepted Quantities (EQ):</b> E1 <b>EmS-No.:</b> F-A, S-B <b>Remark:</b>	<b>Special provisions:</b> <b>Excepted Quantities (EQ):</b> <b>Remark:</b>
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### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

No data available

## SECTION 15: Regulatory information

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

#### 15.1.1. EU legislation

##### Other regulations (EU):

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive], Hazard categories:

- E1 Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1

Volatile organic compounds (VOC) content in percent by weight: 0%

Regulation (EC) No. 648/2004 (Detergents regulation)

5-15% chlorine-based bleaching agents

#### 15.1.2. National regulations

##### [DE] National regulations

##### Störfallverordnung

##### for substances contained in the product:

Hazard categories:

- E1 Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1

Named dangerous substances:

- Mixtures of sodium hypochlorite, aquatic acute 1 and < 5% active chlorine

##### Water hazard class

##### WGK:

2 - deutlich wassergefährdend

#### 15.2. Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.



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### SECTION 16: Other information

#### 16.1. Indication of changes

1.1.	Product identifier
1.2.	Relevant identified uses of the substance or mixture and uses advised against
14.6.	Special precautions for user
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 16.2. Abbreviations and acronyms

No data available

#### 16.3. Key literature references and sources for data

No data available

#### 16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Classification according to Regulation (EC) No 1272/2008 [CLP]-:

Hazard classes and hazard categories	Hazard statements	Classification procedure
Skin corrosion/irritation ( <i>Skin Corr. 1</i> )	H314: Causes severe skin burns and eye damage.	
Serious eye damage/eye irritation ( <i>Eye Dam. 1</i> )	H318: Causes serious eye damage.	
Hazardous to the aquatic environment ( <i>Aquatic Acute 1</i> )	H400: Very toxic to aquatic life.	

#### 16.5. Relevant R-, H- and EUH-phrases (Number and full text)

Hazard statements	
H314	Causes severe skin burns and eye damage.
H410	Very toxic to aquatic life with long lasting effects.

Supplemental hazard information	
EUH031	Contact with acids liberates toxic gas.

#### 16.6. Training advice

No data available

#### 16.7. Additional information

No data available

\* Data changed compared with the previous version