

### 1 Product and suppliers identification

1.1 Handelsname:	<b>Simple Green Handcleaner Gel</b>		
1.2 Hersteller	<b>Simple Green AG European Operations Hürdweg 10 CH-8854 Galgenen</b>	<b>Tel: +41 (0)55 460 1212 Fax: +41 (0)55 460 1210</b>	
Notruf-Nummer:	Schweizerisches Toxikologisches Informationszentrum, Zürich	Tel: +41 (0)1 251 5151	
1.3 Vertriebspartner, Landesvertreter			
Notruf-Nummer:			

### 2 Composition of the Product

Ingredients	CAS-Nr	Content	R -sentences	S - sentences
<b>Mixture of:</b>		<b>0</b>	<b>0 0</b>	
<b>aliphatic hydrocarbons</b>	<b>n.e.</b>	<b>&lt; 5,0 %</b>	<b>n.a. 0</b>	<b>0</b>
<b>nonionic surfactants</b>	<b>n.e.</b>	<b>&lt; 5,0 %</b>	<b>n.a. 0</b>	<b>0</b>

None of the ingredients is subject to be classified as a 'dangerous product' or is above the declaration limits. USA: all components are listed on the TSCA Chemical Substance Inventory.

### 3 Hazards identification

3.1 Hazard description:	<b>not requested</b>
3.2 Information pertaining to particular dangers for man and environment	<b>none Mild eye-irritant</b>
	<b>None of the ingredients are regulated or listed as potential cancer agents by US-federal OSHA, NTP, or IARC.</b>

## 4 First Aid Measures

### 4.1 General Information

**No special requirements requested**

### 4.2 After inhalation

**No special requirements requested**

### 4.3 After skin contact

**No special requirements requested**

### 4.4 After eye contact

**Rinse opened eyes for several minutes under running water.  
Contact a doctor if irritation persists.**

### 4.5 After swallowing

**Rinse out mouth and then drink plenty of water.  
Avoid vomiting.**

## 5 Fire Fighting Measures

### 5.1 Suitable extinguishing media

**Since the product is not combustible or flammable, if involved in a fire, use extinguishing media appropriate to the source of the fire.**

### 5.2 For safety reasons unsuitable extinguishing agents

**None**

### 5.3 Special hazards caused by the material, its products of combustion or resulting gases

**None**

### 5.4 Special requirement for fire-fighting equipment

**Since the product is not combustible or flammable, if involved in a fire, use protecting equipment appropriate to the source of the fire.**

## 6 Accidental Release Measures

6.1 Person-related safety precautions:

**Change contaminated cloth.**

6.2 Precautionary measures for environment

**Recover usable material by convenient method. If necessary, unrecoverable material may be washed to drain with large quantities of water.**

6.3 Procedures for cleaning / waste disposal

**As the product is fully water soluble and biodegradable, it will not harm sewage-treatment microorganisms if disposal by sewer or drain is necessary.**

## 7 Safe Handling and Storage

7.1 Handling

**No special requirements necessary.**

7.2 Fire protection

**No special requirements necessary.  
The product is not flammable.**

7.3 Warehousing conditions

**Store in cool, dry conditions in well sealed receptacles.  
Recommended temperature between +5°C and +30°C.  
The product has no shelf-life - however we recommend to use it within 3 years.**

7.4 Information about storage in one common storage facility

**Not required.**

7.5 Warehousing /storage class:

**n.e.**

## 8 Exposition Limits and Personal Protection

8.1 Technical Precautionary Measures

**None**

8.2 Respiratory Protection

**Look for good ventilation.**

8.3 Skin Protection

**Wear reasonable gloves, if prolonged contact with product or its solutions may be necessary.**

8.4 Eye Protection

**Avoid contact with eyes.**

8.5 Full Body Protection

**Remove contaminated clothing and wash skin below with plenty of water.**

8.6 Hygienic advises

**Do not smoke, drink or eat as you work with the products. Wash your hands after finishing the job.**

8.7 Exposure Limits and other requirements

	Ingredients		#NAME?
	ml /m3 ppm	mg / m3	mg / m3 (calc.)
<b>The product presents no health hazards to the user when used according to label directions.</b>	0	0	n.e.
	0	0	
	0	0	

## 9 Physical and Chemical Description / Properties

9.1 Appearance			<b>Gel</b>
9.2 Colour			<b>green</b>
9.3 Odor			<b>perfuemd, sassafra</b>
9.4 Change of condition liquid / solid		DIN 51761	<b>-2°C</b>
9.5 boiling point		DIN 51761	<b>100°C</b>
9.6 Density		DIN 51757	<b>1,000 ge/cm3</b>
9.7 Vapor pressure		DIN 51754	<b>n.e.</b>
9.8 Viscosity		DIN 51550	<b>&gt; 50'000 ,Pa.S</b>
9.9 Solubility	in water		<b>100 %</b>
	in acetone		<b>n.e.</b>
9.1 pH	100%ig		<b>5.5 - 6.0</b>
	10%ig		<b>6.0 - 7.5</b>
	1%ig		<b>6.0 - 7.5</b>
9.11 Coefficient: n-octanol / water			<b>n.e.</b>
9.12 Flash point		DIN 51755	<b>Non flammable</b>
9.13 Autoignition temperature		DIN 51794	<b>Non flammable</b>
9.14 Explosure limits	lower		<b>n.e.</b>
	upper		<b>n.e.</b>
9.15 Vapor density			<b>n.e.</b>
9.16 Volatile Organic Compounds			<b>&lt; 1,0 % ( 11,3 gr/L )</b>
9.17 VOC Partial pressure			<b>n.e.</b>
9.18 Brechungsindex			<b>n.e.</b>

## 10 Stability and Reactivity

- 10.1 Thermal decomposition / conditions to be avoided:  
**No decomposition if used according to specifications.**
- 10.2 Dangerous reactions  
**No dangerous reactions known, even under fire conditions.**
- 10.3 Dangerous products of decomposition  
**No dangerous decomposition products known. The product is stable even under fire conditions and will not react with water or oxidizers. Hazardous polymerisation will not occur.**

**11 Toxicity**

11.1 Acute Mortality Study	DL50 acute oral	> 30,0 gr/kg (Rat)
	DL50 acute dermal	n.e.

## 11.2 Primary irritant effect

Dermal irritation **Only mild, but reversible,**Eye irritation **Mild eye Irritant.**

## 11.3 Sensibilisation

**No sensitizing effects known.**

## 11.4 Additional toxicological information

**Detailed reports from independent laboratories are available and proof that Simple Green can be classified as: 'non-toxic'.**

**12 Environmental Toxicity**

12.1 Mobility

**Completely soluble in water.**

12.2 Persistence and Biodegradability

**OECD-302 B-Test (DOC): 97,0% 14 Tage/days, 98,7% 28 Tage/days (ICIM: 21.12.2001) OECD-301 D-Test (BOD/TOD): 100% 28 Tage/days, 87% 15 Tage/days, 57% 5 tage/days ASTM D 2667-70 (BOD/COD): 70% 11 Tage/days, 60% 7 tage/days, 56% 4 Tage/days**

12.3 Potential of Bioaccumulation

**No accumulation has been found.**

12.4 Marine toxicity

**Water hazard class 1 (German Regulation self-assessment):**

EPA category scheme: LC50 or EC50 description: <0,1 ppm  
 very highly toxic 0,1 - 1,0 ppm  
 highly toxic >1, <10 ppm  
 moderately toxic >10, <100 ppm  
 slightly toxic >100 ppm  
 practically non-toxic

	LC50 96h	EPA Class:
<b>1. SimpleGreen: Juvenile whitebait (G.maculatus) Green lipped Mussel (P. canaliculus) Mud snail (P.estuarinus) Brine shrimp (A. salina) Grass shrimp (P. pugio) Mud minnow (F. heteroclitus) 2. Rinseate from using SimpleGreen: Rainbow trout (O.mykiss)</b>	<b>840 ppm 880 ppm 1400 ppm 1596 ppm 880 ppm 6296 ppm &gt;2400 ppm</b>	<b>practically non-toxic</b>

12.5 AOX - indicator

**No ozon depleting reactions known. No AOX potential.**

12.6 Other information

**Based upon chemical analysis, simpleGreen contains no known EPA priority pollutants, heavy metals, or chemicals listed under RCRA, CERCLA, or CWA. Analysis by TCLP (Toxicity Characteristic Leaching Procedure) according to RCRA revealed no toxic organic or inorganic constituents.**

**13 disposal considerations**

13.1 Product

**Original bottled products return to dealer. Smaller quantities may be disposed by sewer-system /drains (see 6.3.)**

13.3 Packaging materials

**Wash containers with water - they may be recycled or applied to other uses.**

**14 Transport information**

14.1 Land transport ADR/RID (cross-border)

ADR/RID class	n.a.	<b>NO DANGEROUS GOODS</b>
Item	n.a.	
Danger code (Kemler)	n.a.	
UN-Number	n.a.	
Label	n.a.	
Description of goods	<b>Solution of surfactants</b>	

14.2 Maritime transport IDMG

IMDG Class	n.a.	<b>NO DANGEROUS GOODS</b>
Page	n.a.	
UN-Number	n.a.	
Packaging group	n.a.	
EMS Number	n.a.	
MFAG	n.a.	
Marine pollutant		
Proper shipping name	<b>Solution of surfactants</b>	

14.3 Air transport ICAO-TI and IATA-DGR

ICAO/IATA-Class	n.a.	<b>NO DANGEROUS GOODS</b>
UN/ID-Number	n.a.	
Packaging group	n.a.	
Proper shipping name	<b>Solution of surfactants</b>	

**15 Regulations**

15.1 Markings according to EU guidelines

The product has been classified and marked in accordance with EU directives / ordinance on Hazardous Materials

Code letter and hazard designation of product

n.e.

Risk phrases

n.a. n.a.

Safety phrases

n.a. n.a.

15.2 Nationale Vorschriften

CH	Switzerland	BAG/PFSP/UFSP T 611500	Classification not requested
DE	Germany	UBA Nr. 3251 0006	Classification not requested
CZ	Czech Republic	C 95 247	Classification not requested
DK	Denmark	PR-nr. 741010	Classification not requested
IL	Israel	KASHRUT CERTIFICATE	Kosher-Certificate - also for Pesach
USA	United States	H:1 F:0 R:0 S:0	HAZCHEM Code: Health = 1 (slight)

**16 Other Information**

16.1 This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

16.2 Changes from the previous version are marked with a black bar on the right side

16.3 Contents are automatically copied from the german version into the other languages.

Est.: Rolf Schmidhäusler 05.12.02